

Installation Instructions – Corrugated Crash Barrier

These instructions relate to the installation of the corrugated safety barrier product.

You will need...

- Tape measure
- Battery drill/screwdriver
- String line
- Setting out pegs
- Safety gloves and goggles
- Spirit level
- Selection of clamps
- Post-hole spade or equivalent for digging post holes*
- Cement – suitable for setting barrier posts.
- Cutting equipment if required

**not required if mounting barrier posts onto concrete using base plates.*

A MINIMUM OF TWO PEOPLE IS REQUIRED TO INSTALL THIS BARRIER SYSTEM.

Step 1

The corrugated safety barrier simply bolts together using M16 x 35mm fixings to connect the various components together where they overlap, and M16 x 50mm fixings to connect the barrier to the upright posts.

Please refer to the Alexandra website for more information on the full range of product components and accessories: www.alexandrasecurity.com/barriers

Step 2

The main beam sections have an overall length of 3500mm, and when joining them together an effective length of 3200mm. These lengths come pre-drilled with holes that line up so that the various components can be connected, however sections can be cut down on site by the installer if shorter sections are required. When making reductions in the length of the beam the installer will need to allow for any overlaps, and carefully mark up a new set of holes to accommodate the post and connecting components.

Step 3

Supporting posts can either be concreted into the ground, or if there is already a firm concrete surface, base plated posts can be used. Again, these are supplied pre-drilled and ready to use. Each beam section will require three posts to support it, with the posts at either end also serving as the first support for the next beam section along. Corner sections will require two posts each, supporting the corner component and the two beams that connect onto it.

Step 4

If looking to achieve a curved effect, beams can be supplied with a 5m and 6m radius, with larger radii available upon request. It's possible that curving the beam may cause a ripple along the edge of the beam and so for appearances it's often best to go for as high a radius as possible.

Step 5

Using the appropriate equipment, and observing the correct health and safety procedures, dig the holes to the required depth, to accommodate the fence posts provided. If using base plates screwed onto concrete instead of post holes, ensure that the surface is thick enough to accommodate fixing screws and level enough to allow the post to be fixed vertically. A survey of the ground conditions must be carried out in advance to ensure it will

support all posts, if conditions are too wet or insufficiently compacted please consult a ground works engineer for assistance.

Once the proposed layout of the barrier is confirmed the first post can be fixed. We suggest you work from one end of your installation, fixing the posts one at a time.

For concrete in posts, prepare a hole 180 x 180 x 600mm, and ensure you allow for the required clearance height under your barrier.

Base Plated posts are available in two sizes:

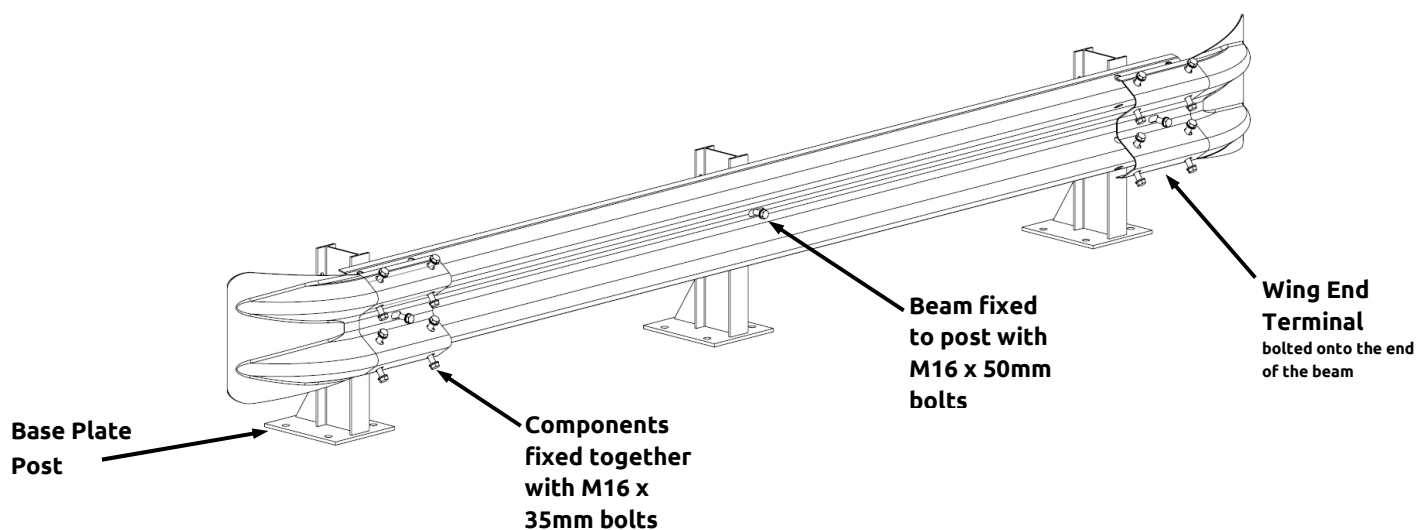
Section (mm)	Length (mm)	Depth (mm)*	Material Thickness (mm)
150 x 75	560	175	6.0
150 x 75	760	175	6.0

**refers to the depth all fixings need to be sunk to, and therefore the minimum thickness of the concrete. The chemical resin fixing system available from Alexandra would require 190mm*

Professional installers use postcrete to fix posts and will be dry in 5-10 minutes, which means the next post can be installed while the first is drying. The top of the concrete can be trowelled away to help with water runoff, or you may prefer to leave the finished concrete a few centimetres below ground level, so the surrounding surface material can be applied for a neat finish around the post.

Step 6

As the posts are fixed the beams, corner and end components can be attached. We advise the installer not to tighten up all fixings until all beam and components are in place.



Alexandra has worked hard to produce these installation instructions for you, but we need your help to ensure that they are as technically thorough as they can be. If you encounter any problems whilst using this document, or can suggest any changes or amendments, please telephone us on: **01892 833 001** or email: **sales@alexandrasecurity.com**