

MASS BARRIER SYSTEM INSTRUCTIONS

General Information

The M.A.S.S. Safety Barrier consists of steel base sections, hot-dip galvanised and then powder coated. Each base unit measures 1500mm x 500mm x 420mm. The old type mass barrier weighs 60kg and the new one weighs 48kg. Various top sections are then added as specific jobs demand. (See below and contact local depot for more information)

The M.A.S.S. Safety Barrier is extremely quick and easy to assemble due to its unique plug-in design. Maximum safety is achieved together with a minimum of traffic flow obstruction during the assembly period.

Details below are installation guidelines, which if followed will ensure a safe, quick, and easy installation.

Personal Protective Equipment

Activity	Risk	Precautions
Loading and Unloading	<ol style="list-style-type: none"> 1. Injury to heads. 2. Injury to feet. 3. Death or injury as a result of manoeuvring delivery vehicle. 4. Injury from collision with passing traffic. 	<ul style="list-style-type: none"> • Wear hard hats. • Wear steel toe capped safety footwear. • Wear high visibility long sleeved jackets. • All lorry movements to be under the control of a competent banksman. Traffic management in accordance with the Traffic Signs Manual (Chapter 8) & subsequent guidance.
Connection of units and top sections	<ol style="list-style-type: none"> 1. Injury to heads. 2. Injury to feet. 3. Injury to hands or fingers. 4. Injury as a result of manual lifting. 5. Injury from collision with passing traffic. 	<ul style="list-style-type: none"> • Wear hard hats. • Wear steel toe capped safety footwear. • Wear protective gloves. Correct working methods Use correct tools • Use correct manual lifting methods. Minimum 2 men per base unit (60kg) • Wearing of high visibility, long sleeved jacket. Traffic management in accordance with the Traffic Signs Manual (Chapter 8) & subsequent guidance.

During the installation of the MASS Safety Barrier we recommend that the following PPE be used. A site-specific risk assessment is detailed below.

Installation of M.A.S.S. base units - 60kg/48kg

When installing the base units, we recommend that they are installed on a flat even surface. This aids in the installation of the top sections later on. Simply lift the base unit into position then slide the second base unit on to it by inserting the male fitting into the female fitting.

We recommend that only four units are pushed together at any one time, the top sections inserted, and then the next four units connected. This enables the installer to manoeuvre the base units to ensure the top sections push into place without any difficulty.

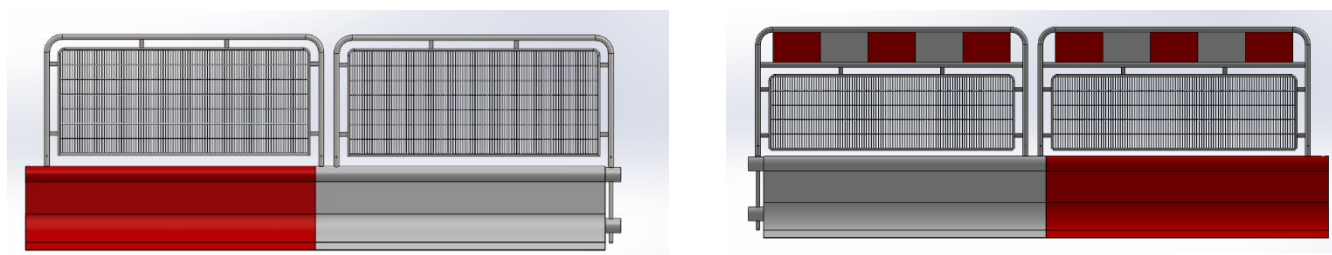
Installation of the Terminal End Buffers - 30kg

One male and one female terminator are required for each run of a barrier. The first end buffer should be inserted on to the first base unit before any top sections are installed. The chosen top section will lock the end buffer on to the base unit preventing any unnecessary movement or removal.

Once all base units are in position slide the second end buffer on to the end unit and insert the final top section to lock into place.

Installation of Pedestrian Guard/Vis Guard -14kg

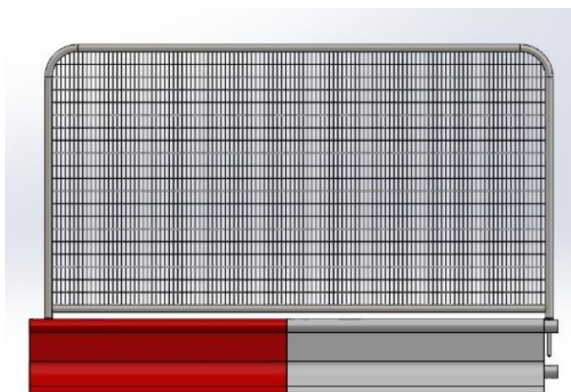
Note: Customers must not add signs or banners to the fencing as this will increase the wind resistance of the fencing.



Each pedestrian panel is 1500mm long; therefore, one panel is fitted per base unit. The top sections are not designed to just drop into place. We recommend the use of a rubber mallet to knock the top sections down securely. When inserting the pedestrian panel into the top of the base unit align the spigots over the holes and slowly lower the panel into place. Use the rubber mallet to secure. *(See Below)*

Installation of Siteguard -35kg

Each Siteguard panel is 3000mm long; therefore, one panel is fitted over two base units. The top sections are not designed to just drop into place. We recommend the use of a rubber mallet to knock the top sections down securely. Before inserting the Siteguard panel, lock the centre of the two base units together using a connector pin. This must be done because the Siteguard panels are 3000mm long and therefore do not lock the two base units together. When inserting the Siteguard into the top of the base unit align the spigots over the holes and slowly lower the panel into place. Use the rubber mallet to secure. *(See Below)*



Installation of Connection Tubes (Miniguard) - 3kg

Each connection tube is 1500mm long; therefore, one tube is fitted per base unit. These are simply used to lock the base units together where no specific top section is required. We recommend the use of a rubber mallet to knock the top sections down securely. When inserting the connection tube into the top of the base unit align the spigots over the holes and slowly lower into place. Use the rubber mallet to secure.

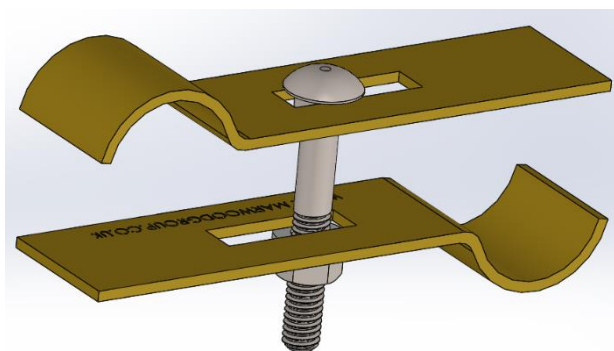
Site-Guard Connector Pins -2kg

These are used to lock two base units together when installing the Siteguard panels. (See Below and Installation of Siteguard). Longest length is 370mm, short length is 215mm, width is 70mm and diameter of the rod is 19mm



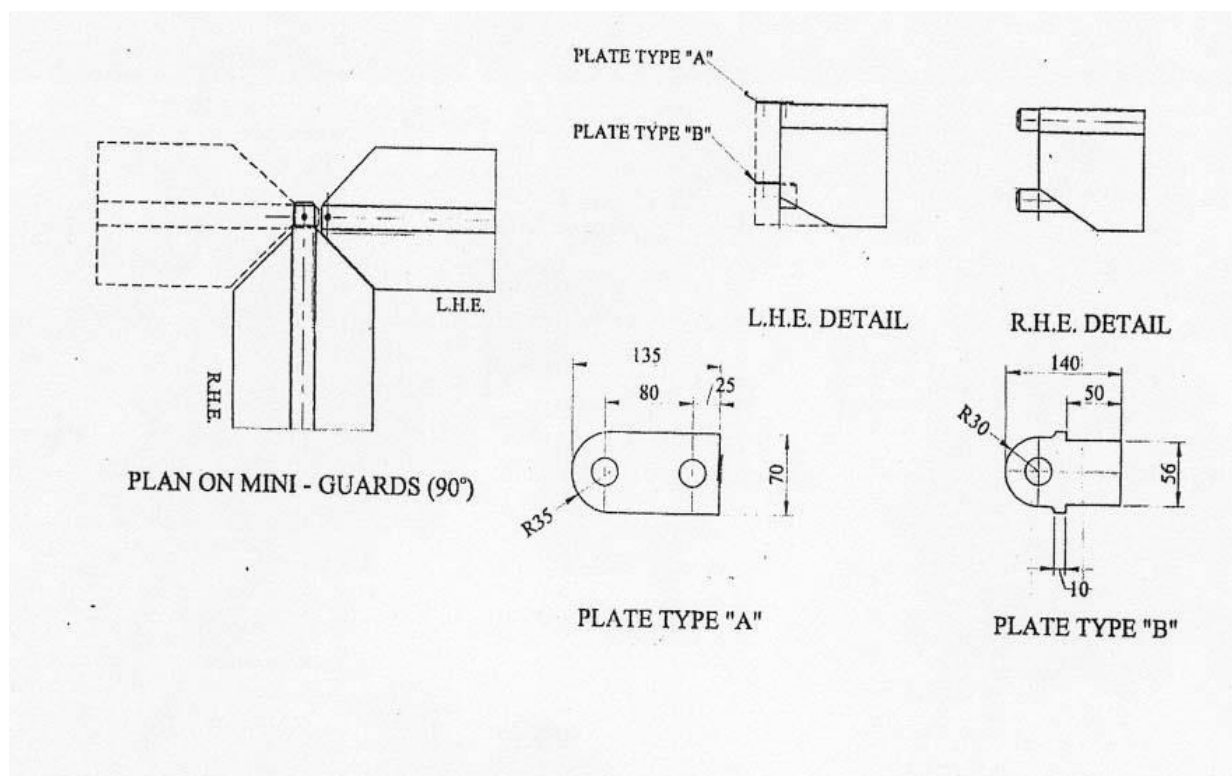
Fence/Universal Clamp

These are used when installing either the pedestrian guard or Siteguard panels. They are used to clamp the fence panels together once the system is finally in place. Clamping the panels together not only restricts movement in the panels but also prevents theft. We recommend the use of one pair of clamps on the pedestrian guard and two pairs on Siteguard. (See Below)

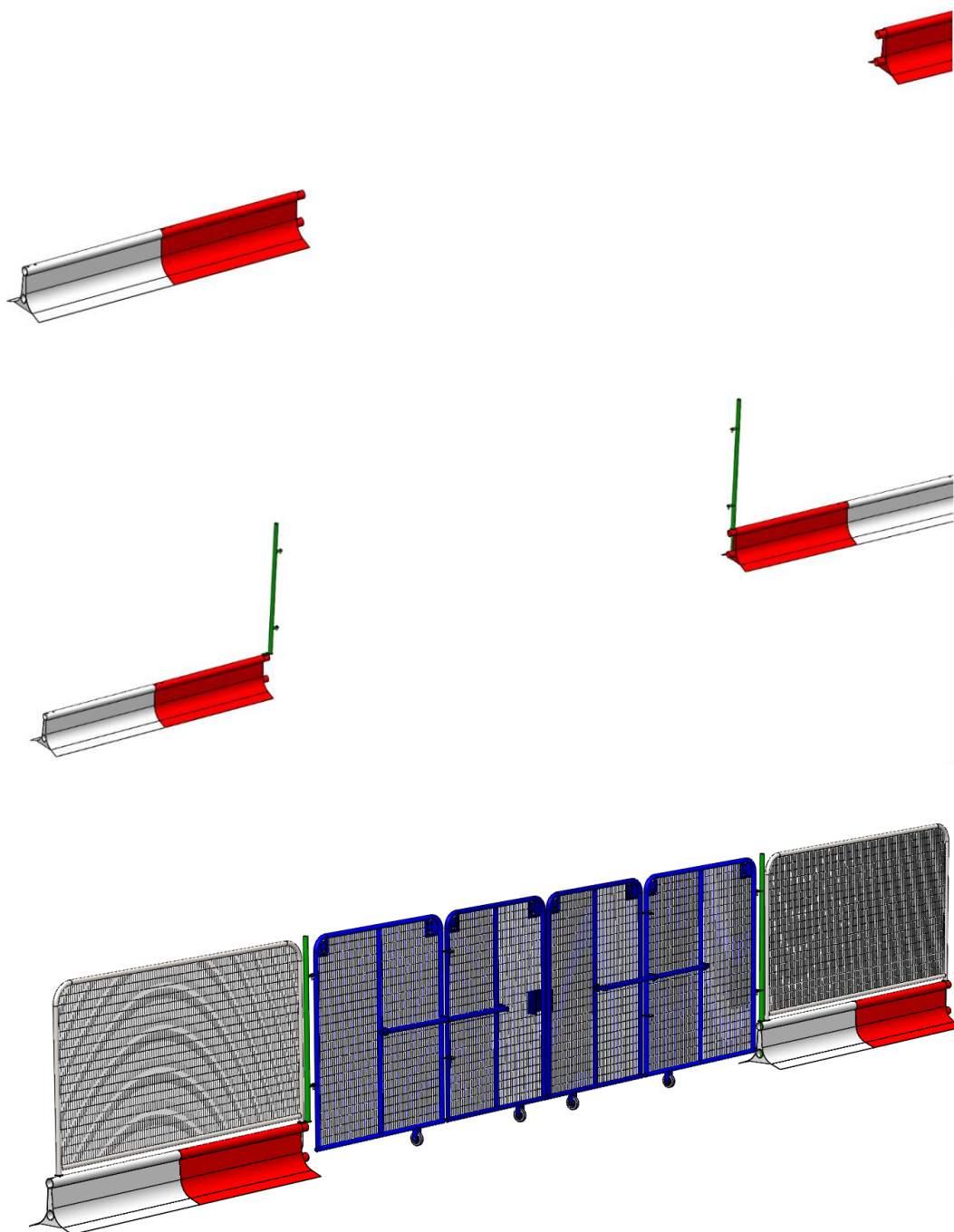


Installation of Left Hand (LHE) and Right Hand End (RHE) Corner Units

The corner base units are designed to enable the system to rotate through 270 degrees. On the Left-Hand End base unit, there are two plates welded to the female fitting. This is where the top sections are inserted. Where M.A.S.S. is required to go around corners we recommend that the corner units be installed first then work outwards towards the terminal end buffers. (See Below)



Assembly of MASS BARRIER with BI FOLD VEHICLE GATE - 6M (PAIR)



System is not wind tested.

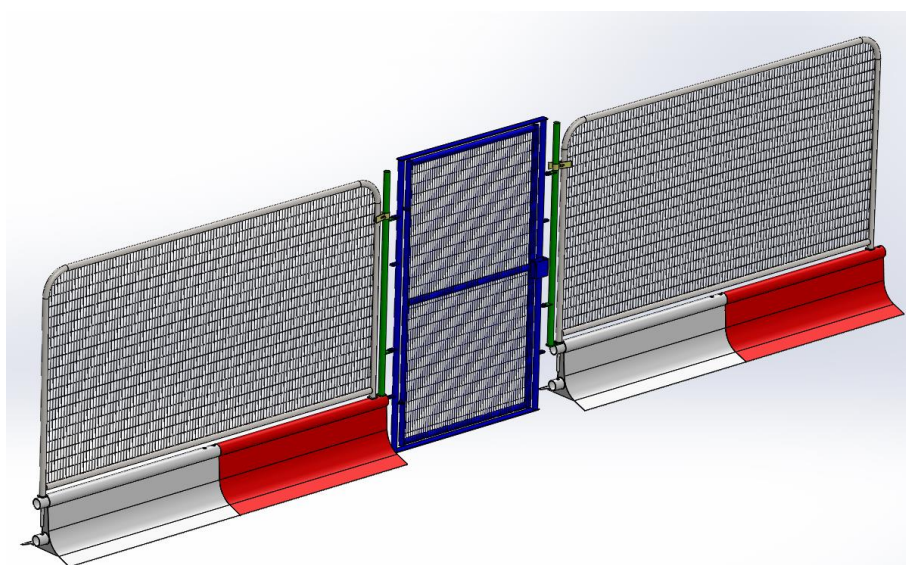
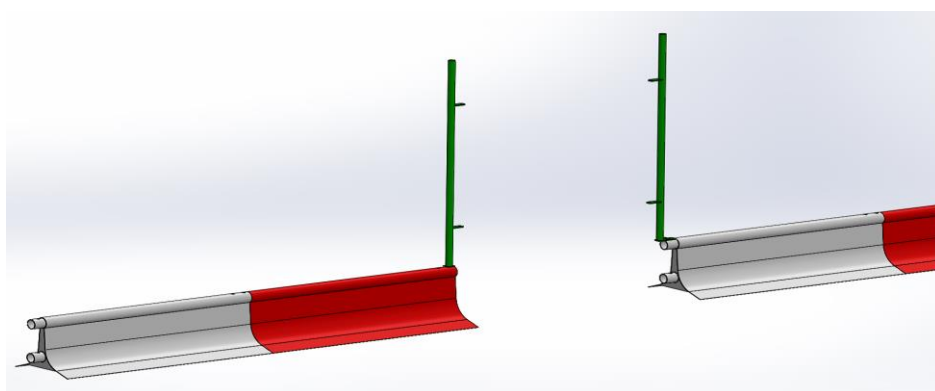
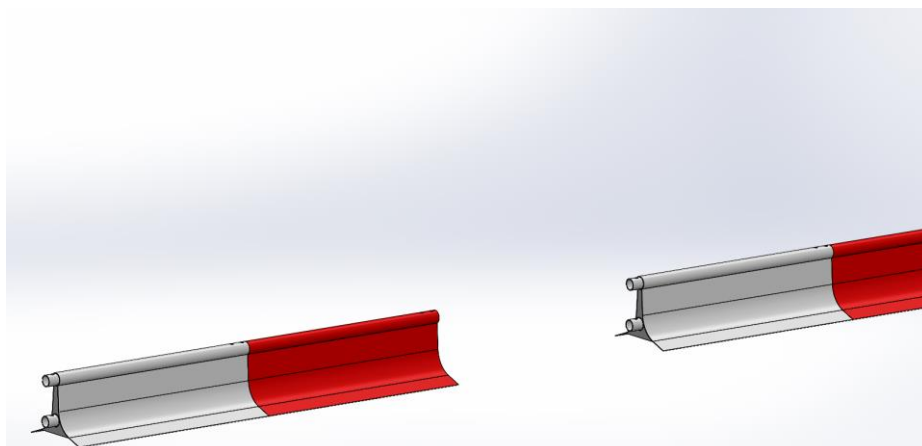
Post required: 2 x **ASSETTGPOST (HIRE CODE)** / **ASSET GATE POST (SALES CODE)**

Fixings required for gate: 4 X M12 X 35, 4 X M12 Nut & 4 X M12 Washer

Fixing required for site guard: 4 X fence clip & 2 X (M8 x 50) bolts with M8 nuts and washers

Note: Customers must not add signs or banners to the fencing as this will increase the wind resistance of the fencing.

Assembly of MASS BARRIER with PEDESTRIAN GATE



System is not wind tested.

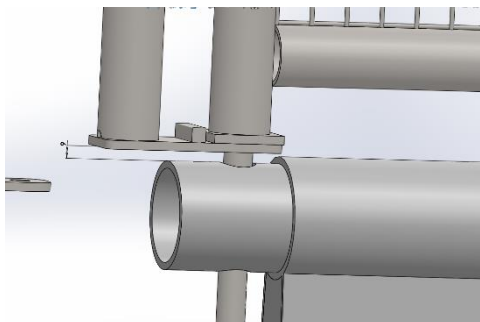
Post required: 2 x ASSETTGPOST (HIRE CODE) / [ASSET GATE POST \(SALES CODE\)](#)

Fixings required for gate: 4 X M12 X 35, 4 X M12 Nut & 4 X M12 Washer

Fixing required for site guard: 4 X fence clip & 2 X (M8 x 50) bolts with M8 nuts and washer

Note: Customers must not add signs or banners to the fencing as this will increase the wind resistance of the fencing.

Marwood Note:



By design there is a gap of 4mm-7mm between the mass barrier rounded end and the post.