



Manta Barrier

Specification Sheet MTS200000

11/07/25



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Manta Barrier

The flexible design means this barrier works for the lifespan of your project. Its durable construction enables these barriers to be repositioned and reused as many times as your project requires.

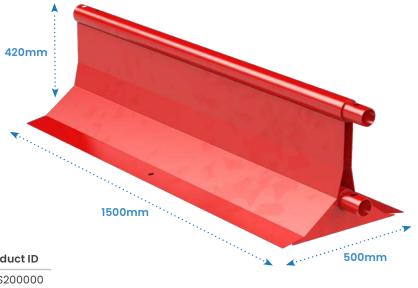
Manta barriers are made from long-lasting, recyclable galvanised steel, which is powder-coated to provide high visibility and the capability to withstand all weather conditions. Each unit can be connected to another, using a removable steel pin, to form a continuous barrier system.



Manta Barrier Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
Manta Barrier Red	500	1500	420	48	MTS200000
Manta Barrier White	500	1500	420	48	MTS200010

- Crash tested to T2 W7 levels, without the need for re-enforcement bars
- Wind tunnel classification of Class A/74mph
- Can be used with mesh fence and steel hoarding panels
- Stackable for easy transportation
- Anti-vandal design
- Accomodates 90° bends
- Available in 2 high visibility powder coated colours





Important Information!

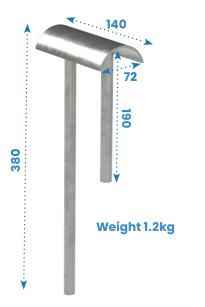
Manta Barriers Don't Need Connection Bars

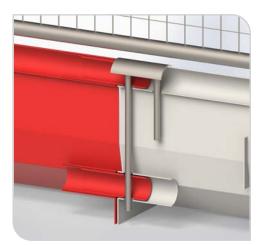
The Manta Barrier still maintains its tested safety standards when also supporting either a 1.5m pedestrian fence or 3m temporary fence, this is due to the Manta Barriers innovative design and installation method which eliminates the need for a connection bar.

This marketing leading system not only saves time during installation, but also saves space when in transit. Regardless of whether your installation is standalone or requiring of a fence add-on, no connection bar will ever be required.

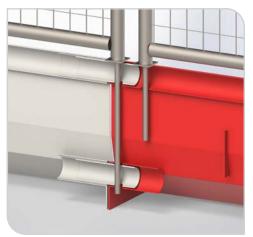
This approach to the system aids the streamlining of installation through both speed, and easy handling of the lightweight connection pin plate used to join the barriers.

- No connection bar is ever required
- Maximises Installation times
- Connection is achieved by pin plate when using a standalone barrier
- Manta Barriers can also connect using the legs of the fencing addons to act as connection pins without reducing safety
- Connection Pin Plate is a lightweight, easy to handle size
- Crash tested to T2 W7 levels, inclusive of fence add-ons





Manta Barriers connected using Pin Plate



Manta Barriers connected using fence add-on bar extensions

Manta Barrier Crash Tested

The ASI achieved by the Manta Barrier is 0.2 and THIV 13, this results in an A rating for severity which is the lowest and best result achievable.

This is a report summary of the crash test conducted by Horiba Mira Ltd, describing the dynamic impact test of the Manta Barrier System to W7 of BS EN 1317:2010. The impact conditions of this test were met with total test mass of 1300 (\pm 65) kg at a speed of 82 (-0 + 7%) km/h (50.9mph), at an angle of 15.7° (\pm 1.5, -1) degrees to the line of the barrier traffic face and therefore satisfactory. The vehicle model used to undertake the test was a Ford Focus.

The correct installation of the test item was the responsibility of the client. The length of the barrier tested was 60m (including anchor terminals), the dynamic deflection was 1.6m and the working width was 2.2m. No part of the barrier penetrated the interior of the vehicle and no part of the barrier was ejected.

Crash Test Summary

- Best possible result for ASI & THIV assessment, achieving an A rating
- Passed W7 of BS EN 1317:2010 impact test
- > Withstood 1300kg impact at 50.9mph from a 15.7° angle
- No reinforcement bar used or required
- > Velocity and angle values were within tolerance limits
- The vehicle did not breach the device
- The vehicle did not roll over within the test area
- No part of the vehicle was detached



Initial point of impact



Degree of deflection at point of highest force

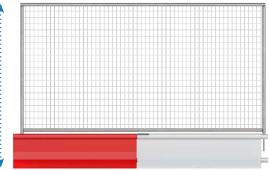
0.42m

Manta Barrier Wind Tested

The Manta Barrier has been meticulously tested within an internationally renowned wind tunnel testing facility, during which the barrier system achieved two classification A passes and one classification B pass.

Three arrangements of the Manta barrier system have been tested, these include two adjoined Manta barriers without any add-ons, two adjoined Manta barriers with the lightweight pedestrian fence addon, and two adjoined Manta barriers with the anti-climb mesh fence add-on. Each arrangement of the system achieved a high level of wind resistance, with the exact resistance figures detailed above the diagrams to the right.





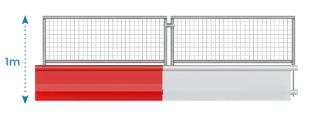
2m

Classification: A

74 mph

Speed Limit Reached: 1

20km/h (33.3m/s)



60

mph

Classification: A

Speed Limit Reached:

97km/h (26.9m/s)

Classification: B

Speed Limit Reached:

72km/h (20.0m/s)

Manta Barrier 1.5m Pedestrian Fence

The Manta Barrier Pedestrian fence is very lightweight, weighing only 5kg. Despite its light weight, the pedestrian fence extension increases the overall height of the barrier system to a substantial 1m.

This quick and easy to install extension provides the additional security often needed to protect vehicle drivers, workforce and pedestrians.

By using the pedestrian fence extension you have the reassurance of knowing the extra height achieved will reduce the risk of a passer-by perimeter breach.



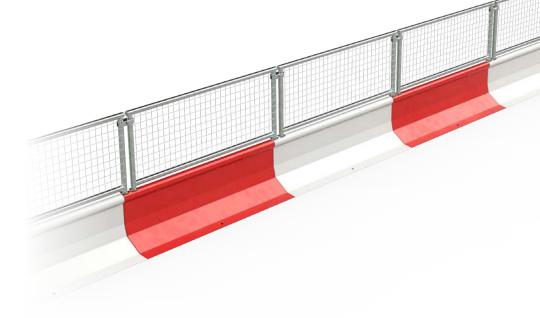
1.5m Pedestrian Fence



In-Line Manta Pedestrian Gate

Key Features

- Increases overall height to 1m
- Legs double up as connection pins
- Anti-climb mesh
- Quick and easy to install
- Provides protection to workforce and pedestrians
- Manufactured using galvanised steel
- Reduces the risk of the barrier perimeter being breached



1.5m Pedestrian Fence Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
1.5m Pedestrian Fence	580	1463	38	6	MTS200450



Manta Barrier Chapter 8 System

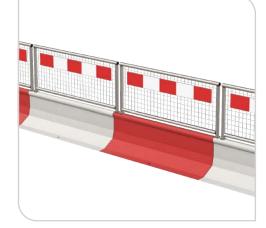
This enhanced version of the 1.5m pedestrian fence has high visibility and highly reflective red and white markings.

The additional high visibility makings ensure compliance to Chapter 8 requirements, the system is also compliant to road traffic standards BSEN8442 & BSEN12899-1.

Our Manta Barrier Chapter 8 System is strong enough to remain stable in adverse weather conditions due to the substantial 42kg Manta Barrier base unit, this is significant when you consider many Chapter 8 barriers weigh less than 15kg.







Row of Manta Barriers with Chapter 8 Pedestrian Fence

1.5m Chapter 8 Pedestrian Fence Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
1.5m Pedestrian Fence	580	1463	38	6	MTS200500

- High visibility
- Legs double up as connection pins
- Anti-climb mesh
- Chapter 8 compliant
- > Provides protection to workforce and pedestrians
- Manufactured using galvanised steel
- Compliant to requirements BSEN8442 & BSEN12899-1
- Increases overall height to 1m





Manta Barrier 3m Fence

In addition to its stand alone benefits, the Manta Barrier can accommodate one of the lightest 3m anti-climb fence panels on the market, allowing for greater ease when manually handling.

The add-on panel massively increases the overall height to a lofty 2m. This guick and easy to install extension provides the reassurance of knowing the chances of a perimeter breach are dramatically reduced.



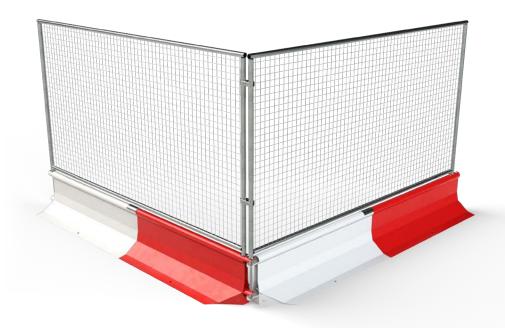
1.5m Pedestrian Fence

Fencing

3m Fence Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
3m Fence	1580	2968	38	15	MTS200400

- Increases overall height to 2m
- Legs double up as connection pins
- Anti-climb mesh
- Quick and easy to install
- Provides protection to workforce and pedestrians
- Manufactured using galvanised steel
- Drastically Reduces the risk of the barrier perimeter being breached



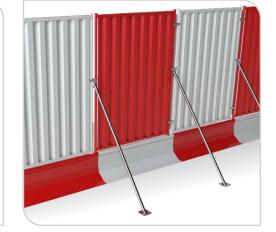


Manta Barrier Hoarding

Our hoarding come in to sizes 2m and 2.4m and can be install on any hard footing, making it ideal for roadworks and site perimeters.

It has a sturdy corrugated galvanised steel construction and bright powder coated colours to demark and obscure site boundary alongside offer the crash protection of the manta barrier. The hoarding utilises the same slot in installation as the rest of the manta's fencing option so installation is quick and easy.





Row of Manta Barriers with

Hoarding panels

2.4m Hoarding Panel

Hoarding Fence Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
2m Hoarding Panel	1580	1463	38	19	MTS200020
2.4m Hoarding Panel	1980	1463	38	23	MTS200050
2m Hoarding Infill Panel	1450	140	1.2	2	MTS200080
2.4m Hoarding Infill Panel	1850	140	1.2	3	MTS200090
Hoarding Fence Stabiliser	1905	130	38	2	MTS200095

- Increases overall height to 2m or 2.4m
- Legs double up as connection pins
- Corrugated Steel Construction
- Quick and easy to install
- > Provides protection and obscures sight lines
- Manufactured using galvanised steel
- > Powder coated in hi vis red and white or galvanised
- Drastically Reduces the risk of the barrier perimeter being breached



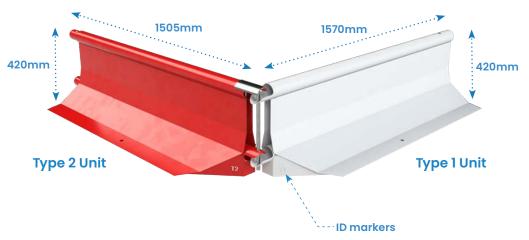
Manta Barrier Corner Sections

Manta Barrier Corner Sections give the ability to rotate units at 90° to accommodate right angles and bends.

Common applications include defining pedestrian walkways and vehicle access, for example, to create a pit lane on a construction site or anywhere that requires the demarcation of vehicle traffic and footfall for pedestrian, visitor and workforce safety.

Key Features

- Easy connection brackets
- 45° angled body to allow for 90° angle when joined
- Fence add-ons can still be used with angled sections
- Perfect for forming pedestrian walkways and construction site access areas
- Identification markers for easy install





Manta Barrier 90° with fence

Manta Barrier Type 1 Unit in red

Manta Barrier Corners Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
Type 1 Red	420	1570	500	43	MTS200100
Type 1 White	420	1570	500	43	MTS200105
Type 2 Red	420	1505	500	43	MTS200120
Type 2 White	420	1505	500	43	MTS200125

Manta Barrier End Sections

A run of Manta Barriers can be neatly finished off by using our specially designed end section unit, the finishing section is available for both male and female connections and ensures there are no unwanted edges that could potentially be hazardous.

The end section maintains the height of the standard unit and has the advantage of also being compatible with all of the available fencing add-ons. Other benefits include the end sections ability to act as a cushion absorbing impact and in turn protecting connection parts should the Manta barrier be impacted.

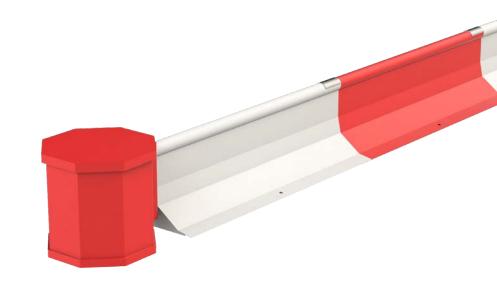
In addition the end section allows for a nice tidy finish to the end of a Manta Barrier run, it also has benefits due to its octagonal shape which minimises movement when in transit if stacked on its side, compared to round competitor units which are prone to excessive movement when in transit.







Female End Section



Manta Barrier End Sections Specification

Туре	Height (mm)	Width (mm)	Depth (mm)	Weight (kg)	Product ID
Male Red	500	660	490	17	MTS200180
Male White	500	660	490	17	MTS200185
Female Red	500	580	490	19	MTS200190
Female White	500	580	490	19	MTS200195

S Manta To Mass Adaptation Options

The Manta to Mass Adaptation Barrier is a robust way to fix a row of Mass barriers to a row of Manta barriers.

This barrier is connected via the existing pin method present in both barrier systems. Along side this it can be used with all fences that come with the barriers to ensure a seamless transition of your perimeter. The powder-coated finish ensures a professional way to segregate pedestrian traffic and visitors on your site.



Mass connected to a Manta via the Adaptation Barrier



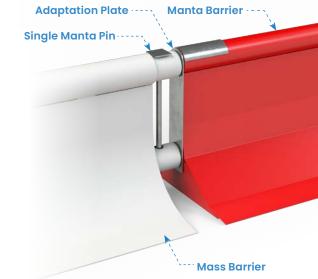
Cut through showing the full barrier and pins in use



Manta to Mass Adaptation Plate

The Manta to Mass Adaptation Plate is a quick and easy way to fix a row of Mass barriers to a row of Manta barriers.

Weight (kg)



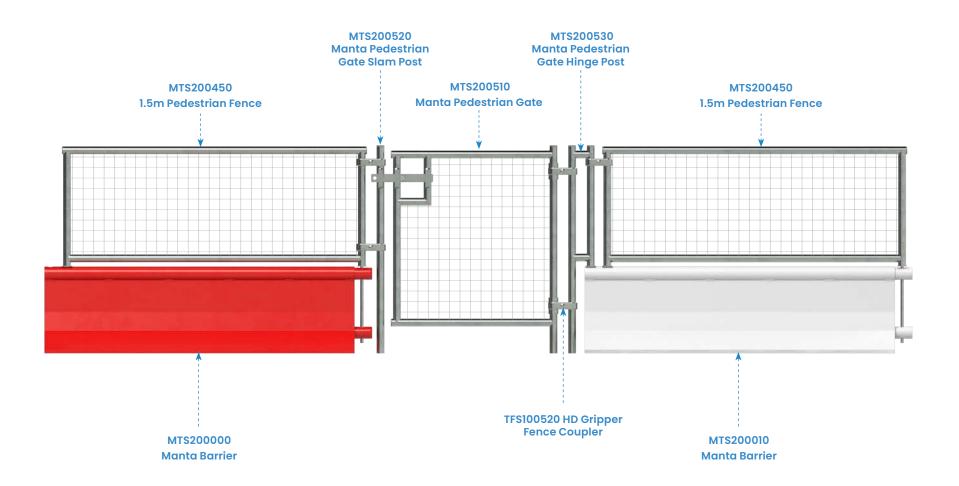
Manta Barrier

MTS200280 - Adaptation Plate H388 x W315 x D80 3

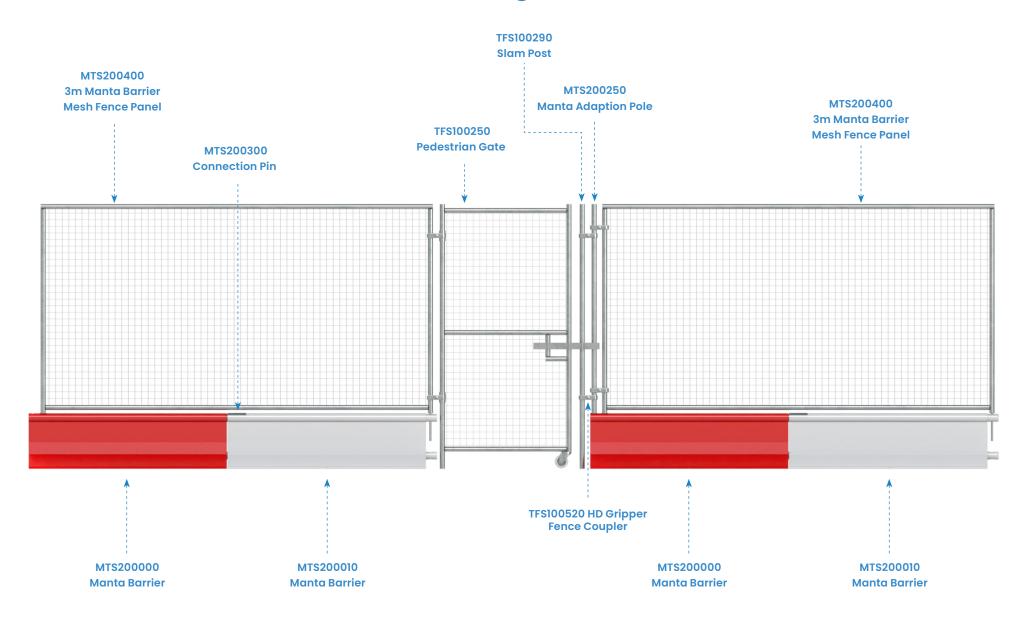
Description

Size (mm)

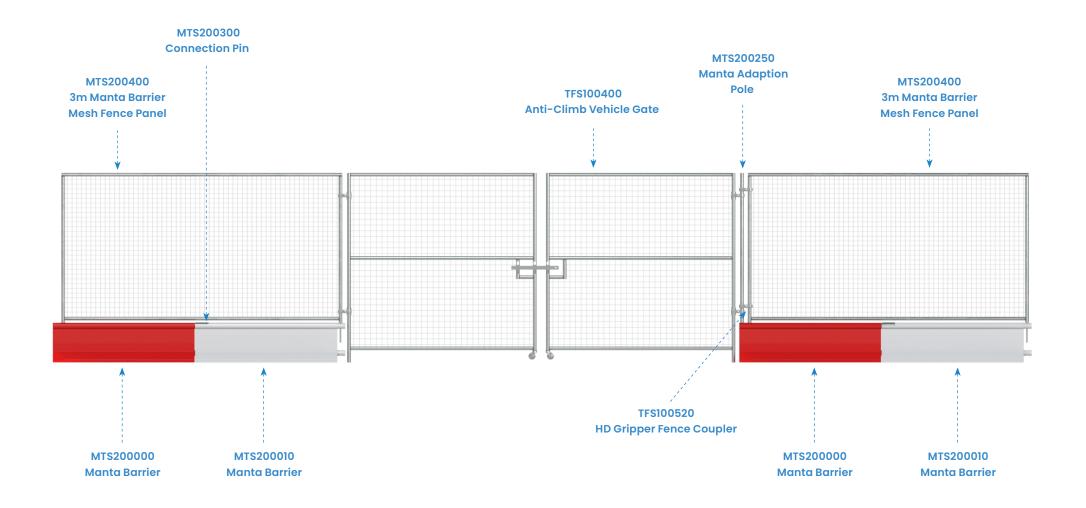
Manta Barrier Low Pedestrian Gate and Fencing



Manta Barrier Pedestrian Gate and Fencing



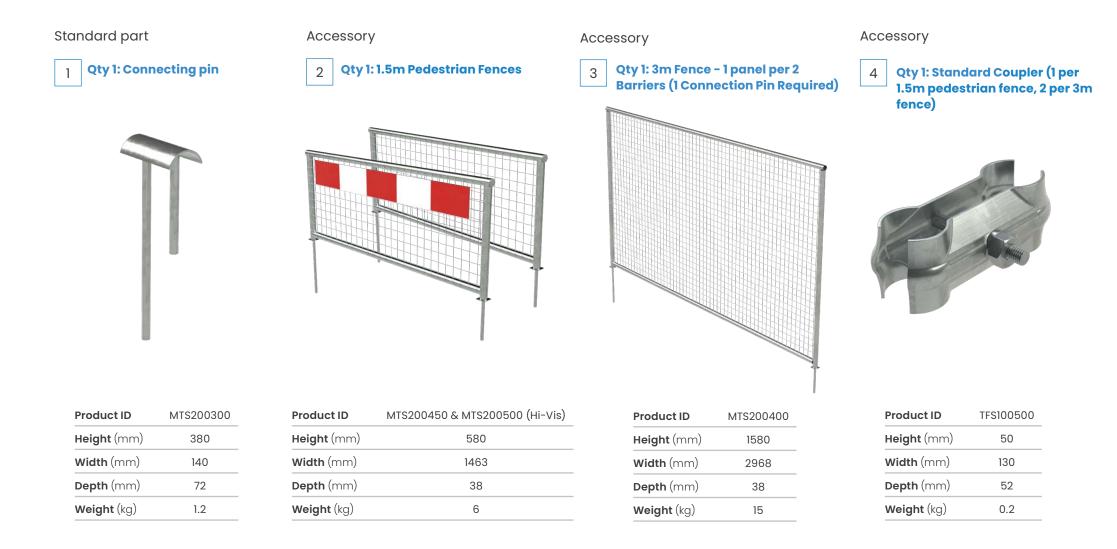
Manta Barrier Vehicle Gate and Fencing



Installation parts

Manta Barrier - Measurements in mm

Please see below pictures and quantities of additional parts you will receive with each Manta Barrier. The parts below are an essential safety requirement when installing the Manta correctly.





Please be aware the Manta Barriers measure 1.5m in length and will therefore slightly overhang the 1.2m pallet they are to be placed onto, this overhang is acceptable within these guidelines.

Place two Manta Barriers side by side so the inner edge of each foot touches the opposing barrier. Each barrier should align at both ends.

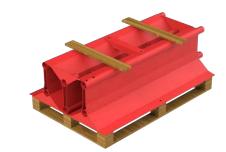
When together the barriers should take a central placement on top of the pallet.



Insert one Manta Barrier upside down to fit inside the empty void that was created from the placement of the previous two barriers.

The feet of this barrier should be evenly supported by the heads of the previous two barriers and also align with the ends of the previous two barriers.

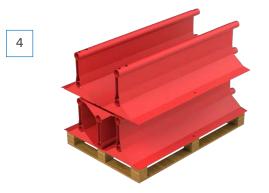
The exposed base of this barrier must be even and level in readiness for the next processes.



3

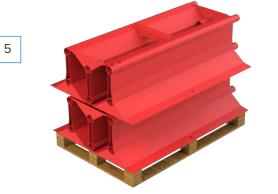
Two additional lengths of pallet wood must now be placed onto the flat base of the previously positioned barrier.

These lengths of wood should be placed approximately 15cm within each end of the three stacked barriers, and be placed in such a way the centre of the wood is central to the base of the third barrier and parallel to the pallet beneath.



Carefully place a further two Manta Barriers side by side onto the previously placed pallet wood so that the inner edge of each foot touches the opposing barrier, each barrier should align top and side with the stacked barriers below.

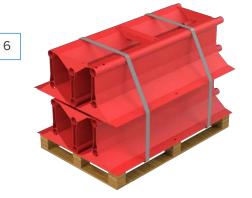
When together both the barriers should take a central placement in relation to the bottom barriers and pallet.



Now one last barrier must be carefully placed on top of the last two barriers to fit inside the empty void that was created.

The feet of this barrier should be evenly supported by the heads of the previous two barriers, and also align with the ends of the previous two barriers.

The exposed base of this barrier must be even and level in readiness for the next processes.



Now a check must be carried out to ensure all of the stacked barriers are evenly balanced, stable and level.

Once this check is successfully completed the whole stack must be secured by heavy duty polypropylene pallet strapping to run from the underside of the pallets top level, all the way around the six stacked barriers. Two rings of strapping must be applied approximately one quarter distance from each end of the stacked barriers.

Manta Galvanised Barrier options also available

Description	Size (mm)	Weight (kg)
MTS200030 - Manta Galvansied Barrier	H500 x W1500 x D420	48
MTS200020 - Manta Galvanised Barrier (Hi-Vis)	H500 x W1500 x D420	48
MTS200096 - Manta Barrier Corner Section (Type 1)	H420 x W1570 x D500	43
MTS200106 - Manta Barrier Corner Section (Type 2)	H420 x W1505 x D500	43
MTS200098 - Manta Barrier Corner Section Hi-Vis (Type 1)	H420 x W1570 x D500	43
MTS200108 - Manta Barrier Corner Section Hi-Vis (Type 2)	H420 x W1505 x D500	43
MTS200128 - Manta Barrier End Stop (Male)	H500 x W660 x D490	17
MTS200188 - Manta Barrier End Stop (Female)	H500 x W580 x D490	19





