

MANTA

MANTA

Durable, All-Weather Road Safety & Construction Barriers

MANTA[®] BARRIER



info@mantabarrier.com



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BARRIER





MANTA BARRIER SPECIFICATION SHEET



PRODUCT INFO

The flexible design means this barrier is a durable construction that 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 is connected to another, using a removable steel pin, to form a continuous barrier system. These barriers are manufactured in the UK to SafeSite's bespoke design.

NO CONNECTION BARS NEEDED

The Barrier maintains its tested safety standards when also supporting either a 1.5m long pedestrian fence or 3m long temporary fence, which eliminates the need for a connection bar.





Connection pin Using pin plate

Using fence add-on bar extensions

FENCING OPTIONS





Panel Fence



KEY FEATURES

- Cost-effective solution
- > Up to 144m per load
- > Tested as free-standing with no ground drilling needed
- Class A' Wind Tunnel Test Certification
- > Crash tested W7 of BS EN 1317:2010
- > Quick and easy to assemble, install and reposition
- > Lightweight & stackable for easy transportation and storage
- Compatible with top-section safety fencing for added safety and perimeter protection
- > Available in 2 high visibility colours





SPECIFICATIONS

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

ΜΑΝΤΑ BARRIER

MANTA BARRIER SPECIFICATION SHEET

MANTA BARRIER CORNER SECTIONS

With Manta Barriers there is the added ability to rotate units at 90° degrees to accommodate 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.

APPLICATION

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- > Easy connection brackets
- > 45° degree angled body to allow for 90° degree angles when joined
- Installation of angled sections quick and easy to perform
- > The angled sections maintain a very similar visual appearance to the standard units, for consistency throughout the boundary
- Fencing add-ons can still be used with the angled sections
- > Perfect for forming pedestrian walkways and construction site access areas

Female Type 1 Section Male Type 2 Section 1582 1567 420 1 0 V

CORNER SECTIONS SPECIFICATIONS

Product ID	MTS200100	MTS200105	MTS200120	MTS200125
Туре	Female Type 1	Female Type 1	Male Type 2	Male Type 2
Colour	Red	White	Red	White
Height (mm)	420	420	420	420
Depth (mm)	500	500	500	500
Width (mm)	1567	1567	1582	1582
Weight (kg)	43	43	43	43

Manta barriers functioning at 90° degree angle with fence



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.

Male End Section

Female End Section





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.

> Row of Manta barriers with pedestrian fence





Product ID	MTS 200180	MTS 200185	MTS 200190	MTS 200195
Туре	Male	Male	Female	Female
Colour	Red	White	Red	White
Height (mm)	500	500	500	500
Depth (mm)	490	490	490	490
Width (mm)	660	660	580	580
Weight (kg)	17	17	19	19



KEY FEATURES

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

Width (mm

Weight (kg)

Product ID	MTS200450
Height (mm)	580
Depth (mm)	38

1463 6

1.5M PEDESTRIAN FENCE SPECIFICATION

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MANTA BARRIER SPECIFICATION SHEET

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.

KEY FEATURES

> High visibility

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- Chapter 8 compliant
- > Compliant to requirements BSEN8442 & BSEN12899-1

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





Row of Chapter 8 Manta

HIGH VISIBILITY 1.5M PEDESTRIAN FENCE SPECIFICATION	
Product ID	MTS200500
Height (mm)	580
Depth (mm)	38
Width (mm)	1463
Weight (kg)	6

MANTA BARRIER **PEDESTRIAN GATE & FENCING**



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 quick and easy to install extension provides the reassurance of knowing the chances of a perimeter breach are dramatically reduced.

KEY FEATURES

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



Row of Manta barriers with 3m fence



3M FENCE SPECIFICATION

Product ID	MTS200400
Height (mm)	1580
Depth (mm)	38
Width (mm)	2968
Weight (kg)	15

MANTA BARRIER **VEHICLE GATE & FENCING**



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MANTA BARRIER

MANTA BARRIER - BASE UNIT



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

MANTA CORNER - FEMALE TYPE 1



Product ID	MTS200100 (Red), MTS200105 (White)
Height (mm)	420
Depth (mm)	500
Width (mm)	1567
Weight (kg)	43

1.5M PEDESTRIAN FENCES

3M FENCE - BASE UNIT



MANTA CORNER - MALE TYPE 2



Product ID	MTS200120 (Red), MTS200125 (White)
Height (mm)	420
Depth (mm)	500
Width (mm)	1582
Weight (kg)	43

CONNECTING PIN



MANTA END - FEMALE



Product ID	MTS200190 (Red), MTS200195 (White)
Height (mm)	500
Depth (mm)	490
Width (mm)	580
Weight (kg)	19

CONNECTING PIN - SINGLE PIN

ADAPTION POLE - 2M



MANTA END - MALE



Product ID	MTS200180 (Red), MTS200185 (White)
Height (mm)	500
Depth (mm)	490
Width (mm)	660
Weight (kg)	17



Product ID	MTS200400
Height (mm)	1580 (2000 installed)
Depth (mm)	38
Width (mm)	2968
Weight (kg)	15

Product ID	MTS200500 (Hi-Vis), MTS200450
Height (mm)	580 (1000 installed)
Depth (mm)	38
Width (mm)	1463
Weight (kg)	6

Product ID	MTS200300
Height (mm)	380
Depth (mm)	73
Width (mm)	140
Weight (kg)	1.2

Product ID	MTS200310
Height (mm)	370
Depth (mm)	50
Width (mm)	50
Weight (kg)	1

Product ID	MTS200250
Height (mm)	1950
Depth (mm)	50
Width (mm)	50
Weight (kg)	2

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° (+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 TESTED SUMMARY

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ΜΔΝΤΔ

BARRIER

- 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° degree 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



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 add-on, 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.



Speed Limit Reached: 1 20km/h (33.3m/s)



1m

CLASSIFICATION: A Speed Limit Reached: 97km/h (26.9m/s)



CLASSIFICATION: B Speed Limit Reached: 72km/h (20.0m/s)





Degree of deflection at point of highest force