MANTA GALVANISED BARRIER
SPECIFICATION

info@mantabarrier.com
www.mantabarrier.com

PRODUCT INFO

Offering the same durable, long-lasting design as the original, but without the powder coated finish.

Made from recyclable galvanised steel, it is built to withstand tough conditions and is suitable for repeated repositioning and reuse throughout the life of your project.

This model is available in galvanised or a high-visibility red and white stripe option. Each unit securely connects to the next using a removable steel pin, allowing you to create a continuous and adaptable barrier system tailored to your site requirements.

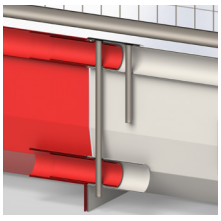
KEY FEATURES

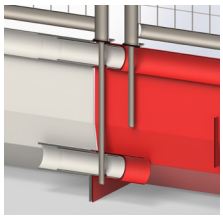
- Cost-effective solution
- Up to 144m per load
- Tested as free-standing with no ground drilling needed
- Class A' Wind Tunnel Test Certification
- Crash tested W7 of BS EN 1317:2010
- Quick and easy to assemble, install and reposition
- Lightweight & stackable for easy transportation and storage
-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

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

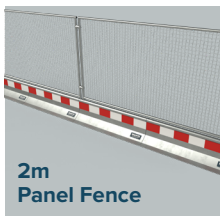

Using pin plate


Using fence add-on bar extensions

FENCING OPTIONS


1m
Ped Fence

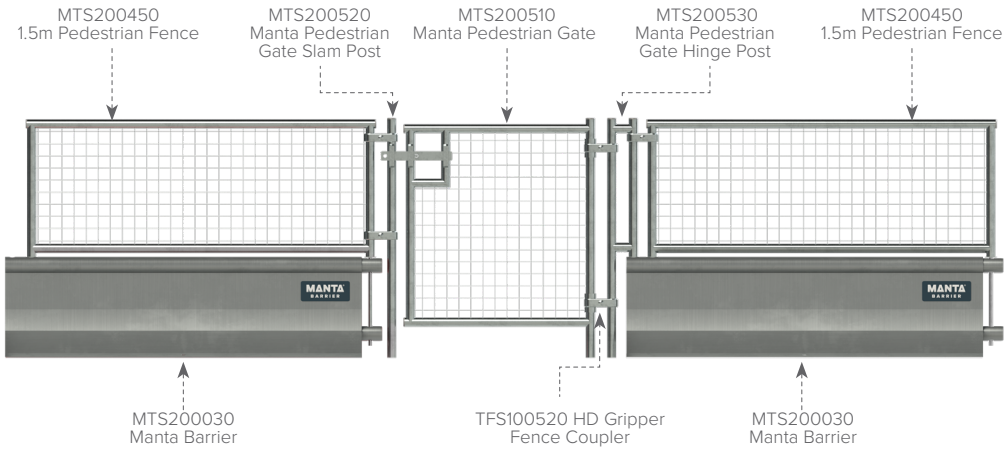

1m
Hi-vis Fence


2m
Panel Fence

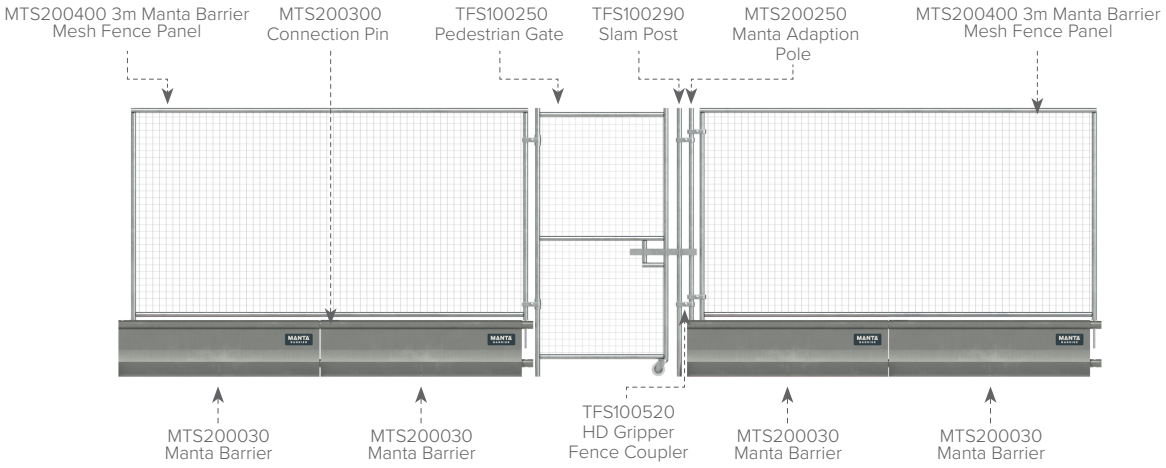
SPECIFICATIONS

Product ID	MTS200020	MTS200030
Colour	High Vis Striped	Galvanised
Height (mm)	420	420
Depth (mm)	500	500
Width (mm)	1500	1500
Weight (kg)	48	48

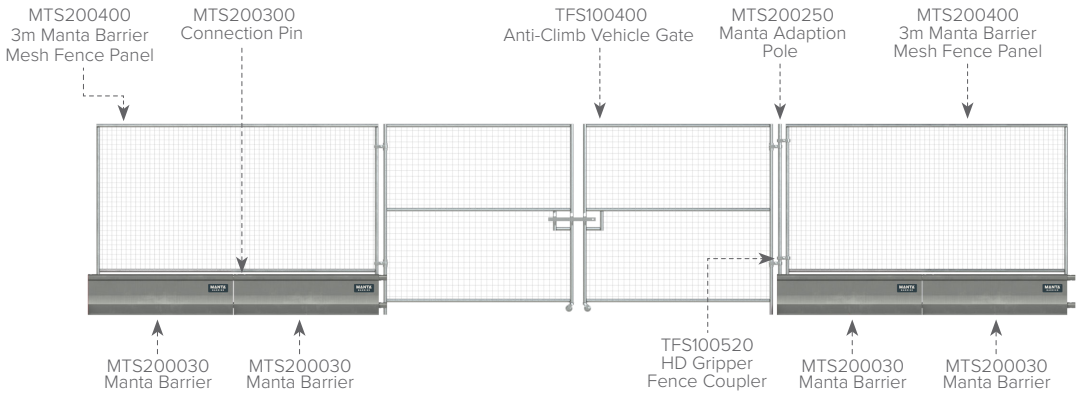
MANTA BARRIER LOW PEDESTRIAN GATE & FENCING



MANTA BARRIER PEDESTRIAN GATE & FENCING



MANTA BARRIER VEHICLE GATE & FENCING



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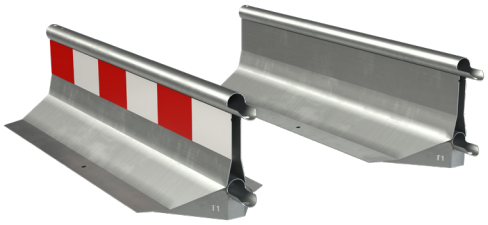
MANTA BARRIER - BASE UNIT

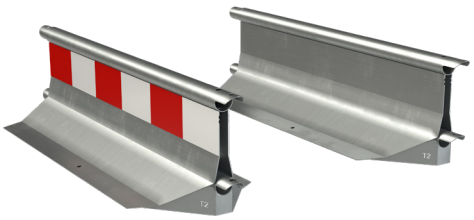
Product ID	MTS200020 (Hi Vis), MTS200030 (Galv)
Height (mm)	420
Depth (mm)	500
Width (mm)	1500
Weight (kg)	48

MANTA CORNER - TYPE 1



Product ID	MTS200098 (Hi Vis), MTS200096 (Galv)
Height (mm)	420
Depth (mm)	500
Width (mm)	1570
Weight (kg)	43

MANTA CORNER - TYPE 2



Product ID	MTS200108 (Hi Vis), MTS200106 (Galv)
Height (mm)	420
Depth (mm)	500
Width (mm)	1505
Weight (kg)	43

MANTA END - FEMALE

Product ID	MTS200188
Height (mm)	500
Depth (mm)	490
Width (mm)	580
Weight (kg)	19

MANTA END - MALE

Product ID	MTS200128
Height (mm)	500
Depth (mm)	490
Width (mm)	660
Weight (kg)	17

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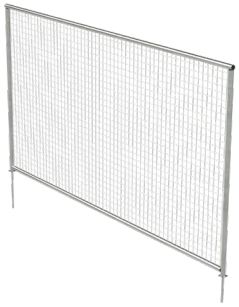
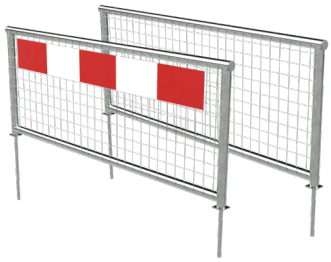
3M FENCE



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

1.5M PEDESTRIAN FENCES



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

CONNECTING PIN

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

CONNECTING PIN - SINGLE PIN

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

ADAPTION POLE - 2M

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

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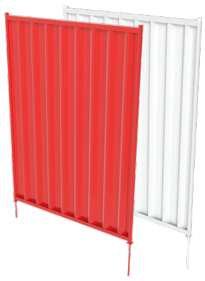
2M HOARDING PANEL

Product ID	MTS200030 (Red), MTS200040 (White)
Height (mm)	1580 (2000 installed)
Depth (mm)	38
Width (mm)	1463
Weight (kg)	19

2.4M HOARDING PANEL



Product ID	MTS200060 (Red), MTS200070 (White)
Height (mm)	1980 (2400 installed)
Depth (mm)	38
Width (mm)	1463
Weight (kg)	23

2M HOARDING INFILL PANEL

Product ID	MTS200080
Height (mm)	1450
Depth (mm)	15
Width (mm)	140
Weight (kg)	2

2.4M HOARDING INFILL PANEL

Product ID	MTS200090
Height (mm)	1850
Depth (mm)	15
Width (mm)	140
Weight (kg)	3

HOARDING STABILISER

Product ID	MTS200095
Height (mm)	1905
Depth (mm)	38
Width (mm)	130
Weight (kg)	2

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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 (±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.

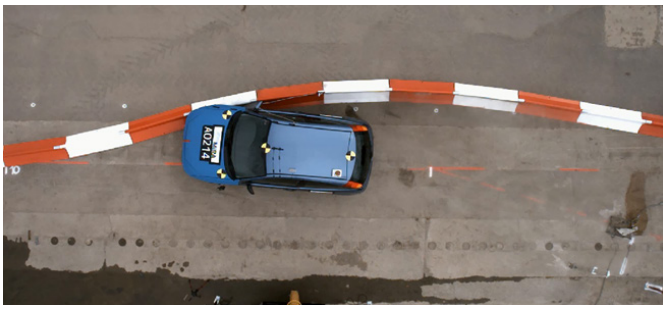
The correct installation of the test item was the responsibility of the client. The length of the barrier tested was 60m (including anchor terminals), the dynamic deflection was 1.6m and the working width was 2.2m. No part of the barrier penetrated the interior of the vehicle and no part of the barrier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

CRASH TESTED SUMMARY

- 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

Initial point of impact

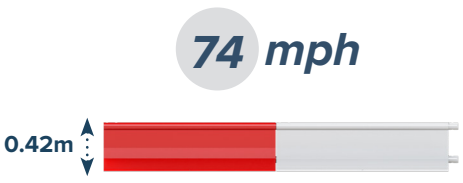
Degree of deflection at point of highest force



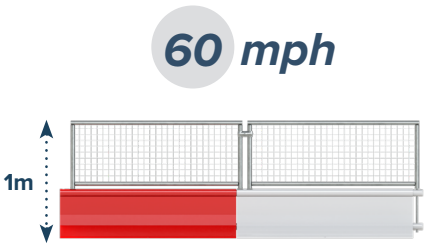
MANTA BARRIER WIND TESTED

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.

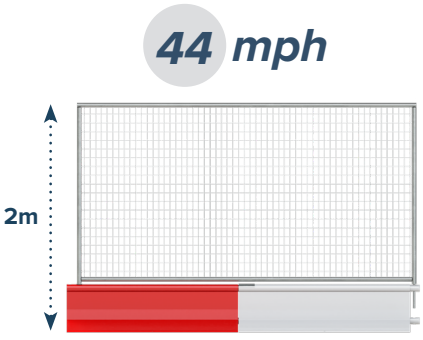
Three arrangements of the Manta barrier system have been tested, these include two adjoined Manta barriers without any add-ons, two adjoined Manta barriers with the lightweight pedestrian fence add-on, and two adjoined Manta barriers with the anti-climb mesh fence add-on. Each arrangement of the system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



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



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



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

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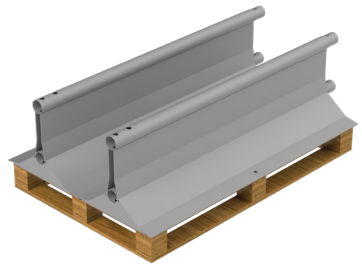
1

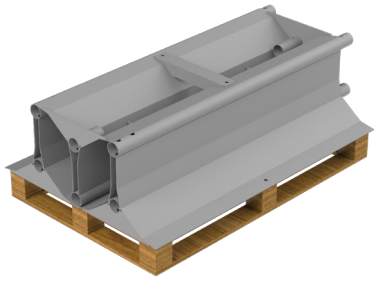


Please be aware the Manta Barriers measure 1.5m in length and will therefore slightly overhang the 1.2m pallet they are to be placed onto, this overhang is acceptable within these guidelines.

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.

2

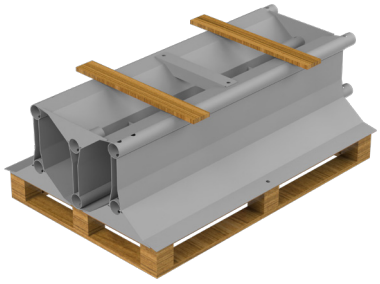


Insert one Manta Barrier upside down to fit inside the empty void that was created from the placement of the previous two barriers.

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.

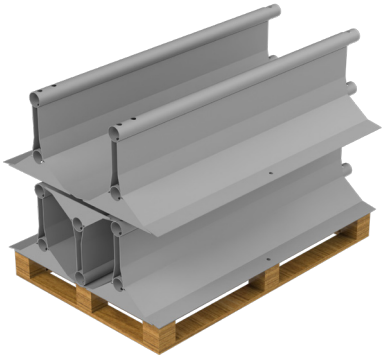
3



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.

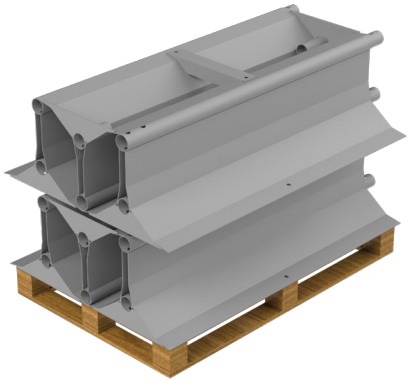
4



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.

5

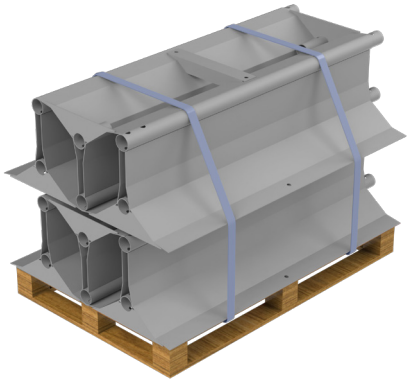


Now one last barrier must be carefully placed on top of the last two barriers to fit inside the empty void that was created.

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.

6



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.