**Marrobar Traffic Barrier System**

The MarroBar is a totally free standing barrier system tested to BS EN 1317-N1 50mph and approved by the Highways agency.

It is designed to offer maximum safety. The MarroBar is one of the quickest deployable systems on the market and with up to 200 metres per load it offers savings on labour and transport. On impact, MarroBar will bring an errant vehicle to a controlled stop. Manufactured from prime UV stabilised polyethylene this provides a versatile yet strong, flexible one piece system for easy handling and installation. There is no need for crane lifting machinery for any given emergency set-up.

Deployed with ease, the MarroBar barrier system is locked together in the centre with a steel pin formation and for added strength two flat steel plates are easily screw fitted making MarroBar a strong and versatile barrier to withstand impacts from errant vehicles. MarroBar barriers are stacked safely and securely with stacking locator points on the top and bottom of each barrier. This allows the barrier to be stacked vertically reducing the cost of transport per metre and reducing storage space.

**Specifications**

<table>
<thead>
<tr>
<th>Marrobar Type</th>
<th>Length (mm)</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Water entry (mm)</th>
<th>Water exit (mm)</th>
<th>Weight empty (kg)</th>
<th>Weight filled (kg)</th>
<th>Water fill height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old</td>
<td>2000</td>
<td>800</td>
<td>500</td>
<td>125</td>
<td>30</td>
<td>60</td>
<td>600</td>
<td>Fill to top</td>
</tr>
<tr>
<td>New</td>
<td>2000</td>
<td>800</td>
<td>500</td>
<td>95</td>
<td>30</td>
<td>60</td>
<td>600</td>
<td>Fill to top</td>
</tr>
</tbody>
</table>

**Important Note**

The Marrobar from the early version has a 125mm cap, with the later models having a 95mm cap.

**Safety Advice**

- Correct manual handling techniques should be applied at all times.
- Following a risk assessment the correct PPE should be worn at all times.
- Extreme Care should be taken at all times whilst working with near traffic.

**Components**

- Base Unit
- 2 x Side plate
- 12 x M12 x 25 bolts
- Steel hinge pin M6 bolt.

**Deploying the system**

1. Units should be installed on a flat even surface.
2. To start assembly, position the first barrier at its intended final position and line remaining barriers on their intended course. Push each barrier together, interlocking the female pins to male tight together.
3. Once they are in the final position starting at one end place steel hinge pin in top hole and push down until flat top is flush with the top of the barrier. **Note:** if tight, twist pin to create downwards movement, barriers may also need to be pulled closer into position for male and female pin to interlock closer.
4. Screw M6 bolt as supplied through hinge pin hole and into insert moulded into top of barrier, tighten with a spanner (do not over tighten).
5. For side plate, assemble onto each side of barrier. Prepare 12 x M12 x 25 bolts with a washer on each as supplied. (Failure to use washers will damage the fixings)
6. Fit the steel plates each side of the barrier, hand screwing the bolts with washer into the brass inserts located in the recessed areas. Note: layout of hole slots on the plates are not mirrored so will only fit one way dependant on insert layout.
7. Hand tighten each bolt with 10mm Allen Key (do not over tighten).
8. All barriers must be fitted with the steel hinge pin and side plates, all bolts must be tightened before filling with water.
9. Water filling fill each barrier by placing water hose in top centre hole, ensure all drain bungs are fitted and tightened accordingly.
   
   **Once filled, replace white cap in hole**
   
   Press the cap carefully. Make sure a small cable tie is present so the cap does not fall into the barrier. As this may result in blocking the drain hole and may result in customers being charged for missing caps or caps that are inside barriers.
10. Once all barriers are water filled to the top of each, the assembly is complete. Moving the barriers and pushing the tops into the barrier at this point may cause irreparable damage.

**NO TESTS HAVE BEEN CARRIED OUT ON THE BARRIERS WITH THE PEDESTRIAN AND VEHICLE GATES INSTALLED. SO THE BS EN1317-N1 IS NOT APPLICABLE**

**Dismantling**

1. For dismantling the barriers, firstly undo and take out the drain bung situated at the bottom of each barrier with T bar tool.
   
   Note: all bungs are to be kept and screwed back into the barrier once emptying is complete.
2. Once barriers are empty of water, undo and take off steel side plates. Finally, remove steel hinge pin.
   
   Note: all parts can be re-used, not to be thrown away.

**Daily Checks**

- The barrier system should be inspected daily checking to ensure:
- Each barrier is retaining water and is full with the filler cap in position.
- That all connecting pins and side plates are fitted.
- Inspect all barriers for damage caused by any unreported impacts.

**Impacts**

Following an impact all barriers must be inspected for any signs of damage all barriers must retain water. Barriers with not capable of holding water or where the captive nuts pulled from the body of the barrier must be replaced.

Should the barriers require moving back into their position must be drained of all water; this will enable the barriers to be moved without causing damage. Loosen the side plates to allow the barriers to be returned to their operating position, all hinge pins and side plates must be tightened. The barrier can then be refilled with water and the white filler caps replaced.

**Additional information**

Each barrier has 3 raised spigots on the top of each long side. This is for stacking purposes, and will locate into female sections at the bottom of each barrier. To ensure safe stacking, each location point must be interlocked into the bottom of the above barrier.

**INSTRUCTIONS TO INSTALL PEDESTRIAN AND VEHICLE GATES ARE ATTACHED BELOW**
RB22 (MarroBar) Fence and Pedestrian Gate

RB22 FENCE PANEL

Posts to suit F-PANEL on RB22 (MarroBar)

Length: 1855mm  
Height: 1350mm  
Post to post length: 2050mm  
Diameter tube: 75mm

The standard fence panel post is used to stand the pedestrian gate. The posts consist of anti-luce fittings (M8 x20mm) which will hold the gate and fence panels can be place on the RB22 on both sides.

Pedestrian Gate & Posts to suit RB22 (MarroBar)
RB22 (MarroBar) Fence and Vehicle Gate

RB22 FENCE PANEL
Length: 1855mm
Height: 1350mm
Diameter tube: 75mm

Post for RB22 (MarroBar) to suit Vehicle Gate and Fence

The vehicle gate post as shown in photo is fitted into joining holes of the RB22 (MarroBar). The vehicle gate is bolted to one side making it a hinge section. Standard fence panels can be placed on the RB22 and held by the anti-luce fittings (M8x 20mm) on the post. Use standard fence panel post if more fences are required on the RB22.

Vehicle Gates with Post on RB22 (MarroBar)