OXFORD PLASTIC SYSTEMS

Conforming to Chapter 8 and Safety at Street Works Code of Practice.

Our mission is to improve safety at construction sites, street works, and the event industry through the provision of innovative products.

Our philosophy is to meet the changing needs of customers, providing them with the highest quality of products at the most competitive price without compromising on safety.

Oxford Plastics Systems is committed to its environmental responsibilities. 75% of our products are made from recycled materials and 100% are recyclable.

Company Profile: Oxford Plastic Systems are the UK’s leading manufacturer of road cones and barriers for the Traffic and Construction Industries. The company also designs and manufactures custom-designed mouldings using a wide range of materials including polyethylene, PVC and glass fibre.

Oxford Plastics has continued to develop and expand, creating innovative products that meet the changing needs of customers and new regulations.

Due to our extensive experience in plastics manufacturing, we can offer a comprehensive trade moulding service. We also offer unique in-house product design and expertise, enabling the development of new, finished products from initial ideas.
Avalon Barrier available in 2m, 1m and now 0.5m wide...

...perfect for crowd control and can be personalised with your logo.

The Avalon Barrier provides both stability and security with its innovative lockable connector.

Easy to use and transport, this long-lasting easy to stack barrier can be used in many applications such as in-door and out-door events, construction and streetworks etc.

Features
- Compliant with BS 7818 Specification (UK).
- Compliant with Chapter 8 Streetworks (UK).
- Advertising signage and reflective material can be applied.
- Can be used with link boards to extend barrier configurations.
- Can accept warning signs and contractor information boards.
- 1 piece barrier constructed from HDPE.
- Supplied with standard or ClearPath feet.
- Designed for secure stacking and easy transportation.
- Strong yet lightweight.
- Designed and manufactured in UK.
- 100% recyclable.

110mm wide complies with BS 7818 specification for pedestrian systems

Holes (555 x 400) to mount sign

2m Avalon
Passes Wind Loading Class C and B with ballast

LOCKING SYSTEM

The Avalon unique linking system design creates secure joints on uneven ground – over kerbs, up slopes and across rough terrain. Unlocked or locked mode configurations prevent unauthorised dismantling.

Images show 0.5m, 1m and 2m configurations

04.11.8

Pedestrian barriers should be of sufficiently solid construction to guide the blind and partially sighted. They should have a robust tapping rail fixed at a height of approximately 150mm above ground level measured to the underside of the rail and a robust hand rail at a height of between 1.0m and 1.2m measured to the top of the rail. In both cases the rail should be at least 150mm deep. The thickness and/or width will depend on the material and construction and will need to be such as to ensure sufficient strength.

The only Chapter 8 compliant barrier with all site set-ups and wind regulations

Patented Product
**AVALON BARRIER (Tube End Type)**

Avalon Barrier available in 2m, 1m and now 0.5m wide...

**Features**
- Compliant with BS 7818 Specification (UK).
- Compliant with Chapter 8 Streetworks (UK).
- Advertising signage and reflective material can be applied.
- Can be used with link boards to extend barrier configurations.
- Can accept warning signs and contractor information boards.
- 1 piece barrier constructed from HDPE.
- Supplied with standard or ClearPath feet.
- Designed for secure stacking and easy transportation.
- Strong yet lightweight.
- Designed and manufactured in UK.
- 100% recyclable.

**2m Avalon**

Passes Wind Loading Class C and B with ballast

**CLEARPATH FEET**

Specially designed to overcome the trip hazard to pedestrians presented by conventional barrier feet.

The ClearPath foot incorporates:
- HIVis high density polythene (HDPE) front section.
- Rear section weighted for extra stability.
- 490mm wide - pedestrian side 180mm.
- Weight 3kg.
- Made from 100% recyclable material.

**04.11.7**

Base supports should not protrude more than 300mm into the path of pedestrians and any vertical edge should be not more than 25mm high. Temporary pedestrian routes should never be less than 1m wide, and wherever possible should be at least 1.5m wide.

**Avalon Linking System**

The only Chapter 8 compliant barrier with all site set-ups and wind regulations

Barriers should be stable under adverse weather conditions and be or appear to be substantial depending on the usage. They should not, however, cause excessive damage to a vehicle should they be struck. Mounds of soil are not acceptable as a barrier. Cars should be taken to ensure that horizontal barriers do not project towards oncoming traffic. Wooden or tubular steel poles shall not be used as horizontal barriers as they constitute a serious hazard should a vehicle collide with them.

**Patent Pending**
AVALON BARRIER

Branding Options

- Reflective material
- Courtesy Sign
- Can be manufactured in corporate colours
- Secondary space for embossment
- Space for embossed company logo and/or label

Branding options

Option 1 - Combination of embossed logo with label
Option 2 - Label
Option 3 - Embossed logo

Extras and Replacement Parts

- Optional Lamp Bracket
- Clearpath Extra Foot - Non trip & Hi-Vis on both sides
- Clearpath Foot - Non trip & Hi-Vis on pedestrian side
- Oxford Ballast Tray
  - Avalon Barrier Passes Wind Loading Class B when fitted with 2 Fencefeet or 37kg of spoil
  - Clips onto Barrier
  - Does not protrude into workspace

- Patent Pending
- Patented Product
- Patent Pending
- Patent Pending
- Courtesy Sign
- Reflective material

Contractor information

08
AVALON BARRIER
How to use Ballast Bucket

1. Ballast Bucket is hooked onto Avalon Barrier

2. OxBlock is put in bucket

3. Second OxBlock can be stacked on top of the first to add suitable amount of weight

4. OxBlocks are removed from bucket

5. Bucket is removed from barrier using handholds

AVALON BARRIER
Compliance / Standards BS7818

ACCESSORIES AND REPLACEMENTS

LAMP BRACKETS
- Designed to hold lamps supplied by Nissen, Unipart Dorman Traffic Lamps. Weighs 74g.
- Order with other products

TRAYS
- Product is used as an anchor system to comply with new code of practice.
- BS 8442:2006 identifies three wind speeds and a calculation for the Ballast required to use in these wind speeds. Weighs 2.2kg.
- Pallet quantity 150

PLANKS
- Product is used as a stability system to comply with new code of practice.
- BS 8442:2006 identifies three wind speeds and a calculation for the Ballast required to use in these wind speeds.
- Pallet quantity 300

LOCKS
- Designed to lock 2 or 3 barriers together.
- Order with other products

SPIGOT
- Item links feet to main part of barrier. Can connect all feet types.
- Order with other products

04.11.3
Barriers should be stable under adverse weather conditions and be or appear to be substantial depending on the usage. They should not, however, cause excessive damage to a vehicle should they be struck. Mounds of soil are not acceptable as a barrier. Care should be taken to ensure that horizontal barriers do not project towards oncoming traffic. Wooden or tubular steel poles shall not be used as horizontal barriers as they constitute a serious hazard should a vehicle collide with them.
AVALON BARRIER
Safety at Streetworks & roadworks code of practice

Avalon barrier passes Wind Loading Class B in cube configuration

If it is not possible to maintain safe pedestrian access on the footway, consider whether there are other safe alternatives. This could mean, for example, closing the footway and placing a ‘Footway closed’ sign at the works and an advance ‘Footway closed ahead’ sign at a location where it is safe for people to cross the road (possibly with the use of portable pedestrian crossing facilities). It may be necessary to provide footway ramps on either side of the road at this location.

Avalon barrier passes Wind Loading Class B when fitted with Ballast Tray with 2 Fencefeet fitted or 37kg of spoil

Ballast Trays offer Wind Loading Class B compliant options where post weight set-ups cannot be applied

If it is not possible to maintain safe pedestrian access on the footway and a safe off-carrigeway alternative cannot be found, you should provide a walkway in the carrigeway. In general, a minimum 1.2 metre width of walkway should be provided (this allows for a visually impaired person being guided), with an absolute minimum of 1 metre unobstructed width. It is recommended that a wider walkway be provided if it can be done without resulting in a road closure or a reduction to shuttle working.

*It is not permitted for barrier feet or other equipment to obstruct this space.
**COMPLIANCE / STANDARDS:**

Barrier legislation dictates that all barriers must conform to the following standards:

- **BS7818** - The British Standard
- **The Red Book** - Safety at Street Works & Road Works
- **Chapter 8** - The Traffic Signs Manual
- **TSRGD** - Traffic Signs Regulations & General Directions

**OTHER POINTS:**

Chapter 8 states that:

- "Tubular Steel poles shall not be used as horizontal Barriers as they constitute a serious hazard."
- BS 8442:2006 identifies three wind speeds and a calculation for the Ballast required to use in these wind speeds.
- Reflective Sign face material must comply with requirements in the British Standard

**AVAILABLE FEET:**

- **Standard Foot**
- **Clearpath Foot**
- **Clearpath Extra Foot**
AVALON BARRIER
Compliance / Standards BS7818

SITE PEDESTRIAN WALKWAY
Straight Line Configuration
Class B Wind Loading 38.4mph
2m Avalon Barrier
37kg required

BOX CONFIGURATION
Square Box Configuration
Class A Wind Loading 58.8mph
Class B Wind Loading 39.4mph
Class C Wind Loading 19.5mph
2m Avalon Barrier
No Ballast required
No Ballast required
No Ballast required

RECTANGULAR CONFIGURATION
Rectangular Box Configuration
Class A Wind Loading 58.8mph
Class B Wind Loading 39.4mph
Class C Wind Loading 19.5mph
1 & 2m Avalon Barriers
No Ballast required
No Ballast required
No Ballast required

BALLAST SUGGESTIONS
Oxblock / Fence Feet
Sandbags
Spoil
Kerbstones
**TECHNICAL SPECIFICATION**

**2M AVALON**
Product No: 0635
- Height: 1000mm
- Length: 2000mm
- Weight: 5kg
- Total weight with standard feet: 9.6kg
- Total weight with ClearPath feet: 11.6kg
- Number / pallet: 50
- Colour: Orange (standard), other colours on request
- Test and data: Complies with wind classes

**BALLAST TRAY**
Product No: 088
- Weight: 2kg
- Total weight when filled: 37kg
- Number / pallet: 150
- Colour: Black and Yellow sides, other colours on request
- Test and data: Complies with wind classes

**1M AVALON**
Product No: 0634
- Height: 1000mm
- Length: 1000mm
- Weight: 2.5kg
- Total weight with Clearpath feet: 8.5kg
- Number / pallet: 50
- Colour: Orange (standard), other colours on request
- Test and data: Complies with wind classes

**PLANK OPTIONS**
Product No: 0634 - 0603
- Height: 150mm
- Length: 1250mm and 2000mm
- Total weight with Clearpath feet: 8.5kg
- Number / pallet: 300
- Colour: White with black ends
- Test and data: Complies with wind classes

**500MM AVALON**
Product No: 0646
- Height: 1000mm
- Length: 500mm
- Weight: 1.8kg
- Total weight with Clearpath feet: 1.8kg
- Number / pallet: 100
- Colour: Orange (standard), other colours on request
- Notes: Usage should always be with either 1 or 2 metre Avalon barriers
- Test and data: Complies with wind classes
OXFORDWALL MKII BARRIER

High visibility traffic control product.
Fast and easy to deploy.

The OxfordWall MKII is a substantial barrier that is easy to set up and link together. The barrier can be filled on site with water or sand for extra stability and is designed to stack very efficiently which enables transport costs to be reduced.

OxfordWalls are manufactured from blow moulded UV stabilized polythene and are normally supplied in red or white. The OxfordWall can be used at docks, airports and construction sites to ensure pedestrian guidance and safety.

TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>OXFORDWALL MKII BARRIER</th>
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<tbody>
<tr>
<td>Product Code: O9169</td>
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<tr>
<td>Length: 1100mm</td>
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<td>Height: 600mm</td>
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<tr>
<td>Width: 395mm</td>
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<tr>
<td>Number per pallet: 18</td>
</tr>
</tbody>
</table>

04.10.11
Timber baulks, and other similar non-approved proprietary systems, shall not be used as a means of delineation of works areas on high-speed roads because their ability to control a fast-moving vehicle on impact is totally unpredictable. Subject to local highway authority approval, their use on roads restricted to 30mph with street lighting is likely to be acceptable provided that:

• they are securely fastened together and that each one is securely fastened to the ground; and
• they are painted in alternate red and white bands, each approximately 600mm wide.
STRONGWALL
The StrongWall Barrier is a robust and stable barrier system designed to provide safe access for pedestrians through road or construction works.

The barrier is supplied with an 18kg base which ensures it is stable in windy conditions.

Features
- Compliant with Chapter 8 Streetworks (Code of Practice, England, Wales and Scotland).
- Heavy recycled base of 18kg - standard colour black.
- Top section can be supplied in red, white and orange.
- Top section can be water filled, adding a further 15kg.
- Designed for compact stacking to provide low transport costs.
- Anti-tamper linking system – prevents unauthorised dismantle.
- Can be customized with corporate colour and logo.
- Performs well in windy conditions.
- Designed and manufactured in UK.
- 100% recyclable.

STRONGFENCE
Designed to protect deep excavations and hazardous sites, this anti-climb fence will give you the flexibility and security you need.

StrongFence is easy to handle and can be erected by one person. It can also be easily transported by small vehicles.

Features
- High Level (2m) anti-climb fence for deep excavations and hazardous sites.
- Compliant with Chapter 8 Streetworks (Code of Practice, England, Wales and Scotland).
- One person assembly.
- Stable and ideal for high wind situations.
- Entrance Gateways can be incorporated.
- Tamper proof locking clamps available.
- Plastic top section also available.
- Can be customised with corporate colour and logo.
- Compact for transport by small vehicle.
- Designed and manufactured in UK.
- 100% recyclable.
**STRONGWALL 1000**

Product No: 0628

- Height: 1000mm
- Length: 1000mm
- Width: 520mm
- Total Weight: 22kg
- Number / pallet: 18

Colour: Top: orange, white, red, other on request

Test and data: Strongwall Barrier – self-weighted no extra ballast, maximum wind speed achieved, 32mph (51km/h)

MIRA Wind Tunnel Test.

Base: Black

Base and top barrier can be purchased separately

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**STRONGWALL 800**

Product No: 0638

- Height: 800mm
- Length: 1000mm
- Width: 520mm
- Total Weight: 22kg
- Number / pallet: 18

Minimum run: 500 pieces

Colour: Top: red, white and orange

(other colours on request)

Base: Black

Base and top barrier can be purchased separately

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**STRONGWALL 660**

Product No: 0639

- Height: 660mm
- Length: 1000mm
- Width: 520mm
- Total Weight: 22kg
- Number / pallet: 18

Minimum run: 500 pieces

Colour: Top: red, white and orange

(other colours on request)

Base: Black

Base and top barrier can be purchased separately

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**STRONGFENCE 1000**

Product No: 0633

- Length: 1000mm
- Height: 2000mm
- Weight: 26kg
- Number per pallet: 9

Colour: Top: Orange, white, red, other colours on request

Test and data: Strongfence – set up in a rectangle 3m wide x 2m deep 44mph (70km/h)

Strongfence – set up 4m wide with one section attached at 90 degrees 1m in from each end, the wind blowing onto the side with the side sections attached 45mph (72km/h)

MIRA Wind Tunnel Test July 2009

Maximum sideways force: 400 Newtons. Metal fence.

Base: Black

Base and top barrier can be purchased separately

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**STRONGFENCE 800**

Product No: -

- Length: 1000mm
- Height: 1800mm
- Weight: 25kg
- Number per pallet: 9

Minimum run: 500 pieces

Colour: Top: Orange, white, red, other colours on request

Base: Black

Base and top barrier can be purchased separately

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**STRONGFENCE 660**

Product No: -

- Length: 1000mm
- Height: 1600mm
- Weight: 25kg
- Number per pallet: 9

Minimum run: 500 pieces

Colour: Top: Orange, white, red, other colours on request

Base: Black

Base and top barrier can be purchased separately
VIM FOLDING BARRIER

Vim barrier is the most compact folding barrier on the market. It is very easy to transport and can be installed by one person very quickly. It can be supplied with anti-trip feet for extra stability.

Features
• Compliant with Chapter 8 Streetworks (UK).
• Pre-assembled 4x1 piece panels.
• Constructed from HDPE.
• Hinge design creates strong joints with minimal lateral movement.
• Rotating feet design for reduced trip hazard without compromise to stability (optional).
• Compact design for easy storage and transportation.
• Easily carried and installed by one person.
• Can be installed lineally (with extra feet) or in a square.
• Designed and manufactured in UK.
• 100% recyclable.

VIM BARRIER 1.25M
Product No 0640
Length 1.25m
Total length 5000mm
Height 1000mm
Weight 19.6kg
Number per pallet 15
Colour Orange

VIM BARRIER 1.50M
Product No 0641
Length 1.50m
Total length 6000mm
Height 1000mm
Weight 22.8kg
Number per pallet 15
Colour Orange

NON-CONDUCTIVE FENCE PIN / ROAD PIN

Non-conductive fence pin.
Ideal for temporary delineation.
Can be used at any site with electric cable hazards.
This pin will protect you and your staff from the danger of electrocution.

Features
• Replaceable metal top connector.
• Made from strong non-conductive plastic.
• Safer than steel pins.

FENCE / ROAD PIN
Product No 0514
Height 1300mm
Dia. 17.4mm
Colour White
SAFEGATE

The SafeGate is a barrier system designed to be used around manhole repairs, cable laying and other temporary excavations.

Features
- SafeGate barrier system comprises a set of high-visibility, hinged gates – individual gate weighs only 2kg.
- Compliant with Chapter 8 Streetworks.
- Can also be used to protect any area requiring temporary restriction of access, such as wet floors or cleaning work in progress.
- Modular design means the barrier can be configured in a number of different ways.
- Hinged clips enable fast, simple assembly in 3-way or 4-way configurations.
- Integral locking clamp to aid stability when the barriers are deployed in a straight line.
- Lightweight barrier – folds for easy transportation and storage.
- Made from HDPE.
- Designed and manufactured in UK.
- 100% recyclable.

SAFEGATE 3WAY
Product No 97737
Length single gate 750mm
Total length 2250mm
Height 1000mm
Weight 6kg
Number per pallet 25
Colour Red, Yellow

SAFEGATE 4WAY
Product No 97738
Length single gate 750mm
Total length 3000mm
Height 1000mm
Weight 8kg
Number per pallet 20
Colour Red, Yellow

O4.11.9
Alternatively when the site is continuously manned and covers are to be temporarily removed from underground access chambers, manholes, etc. pedestrians may be protected by barriers of sufficient size to enclose both the chamber opening and its cover. In this case the hand rail must be fixed at a minimum height of 0.95m (Work at Height Regulations 2005). The barrier should be continuous between supports and fixed so that it cannot be accidentally dislodged.

Patent Pending
WATCHMAN BARRIER MKI

An easy to use and compact modular barrier system which provides an unlimited combination of layouts.

Barrier posts, manufactured in HDPE, provide a strong and durable upright. Heavy duty square bases made from recycled plastic fit over the uprights to ensure the system cannot be easily dismantled when unattended.

Features
- Compliant with Chapter 8 Streetworks (UK).
- 8 Reflective planks (1.25m or 2m) + 4 bases + 4 posts = configuration below.
- Versatile barrier suitable for controlling traffic or crowds.
- Unlimited combination of bases, uprights and planks.
- Lamps can be fitted to uprights, and sit inside the post for protection.
- Planks can be screen printed and bases embossed with logos.
- Made from HDPE.
- Compact for easy transportation and storage.
- Items can be purchased separately.
- Debris mesh also available.
- Designed and manufactured in UK.
- 100% Recyclable.

TECHNICAL SPECIFICATION

BASE
- Product No 017
  - Height 125mm
  - Width 455mm
  - Weight 4kg
  - Number per pallet 75
  - Colour Black

POST
- Product No 09550
  - Height 1150mm
  - Width 100mm
  - Weight 0.95kg
  - Number per pallet 150
  - Colour Red, white, other colours on request

1.25M PLANK
- Product No 09502
  - Length 1250mm
  - Width 150mm
  - Weight 1.3kg
  - Number per pallet 300
  - Colour White with red & white reflective strip

2M PLANK
- Product No 09504
  - Length 2000mm
  - Width 150mm
  - Weight 2.2kg
  - Number per pallet 300
  - Colour White with red & white reflective strip

OFFSET BASE
- Product No 0171
  - Width 374mm
  - Height 128mm
  - Weight 4kg
  - Number per pallet 75
  - Colour Black
WATCHMAN BARRIER MKII

An easy to use and compact modular barrier system which provides an unlimited combination of layouts.

Barrier posts, manufactured in HDPE, provide a strong and durable upright. Heavy duty weight fitted inside the post along with anti-trip rectangular bases square bases, made from plastic fit over the uprights to ensure the system cannot be easily dismantled when unattended.

Features
- Compliant with Chapter 8 Streetworks (UK).
- 2 Reflective planks (1.25m or 2m) + 2 bases + 2 posts = configuration below
- Versatile barrier suitable for controlling traffic or crowds.
- Unlimited combination of bases, uprights and planks.
- Solar lamps can be fitted to uprights, and sit inside the post for protection.
- Planks can be labelled and bases embossed with logos.
- Made from HDPE.
- Compact for easy transportation and storage.
- Items can be purchased separately.
- Debris mesh also available.
- Designed and manufactured in UK.
- 100% Recyclable.

2m WatchMan
Passes Wind Loading Class B with Oxford Ballast Tray containing x1 fence foot or 12kg of spoil.

Technical Specifications:

**BASE**
- Product No: TBA
- Height: 145mm
- Length: 630mm
- Width: 200mm
- Weight: 0.8kg
- Number per pallet: 75
- Colour: Yellow

**POST**
- Product No: TBA
- Height: 1000mm
- Width: 130mm
- Weight: 4kg
- Number per pallet: 150
- Colour: Red, white, other colours on request

**PLANK OPTIONS**
- Product No: TBA
- Length: 1250mm, 2000mm
- Width: 150mm
- Weight: 1.5kg
- Number per pallet: 150
- Colour: White with black ends

**BALLAST TRAY**
- Product No: TBA
- Length: 907mm
- Width: 365mm
- Height: 344mm
- Weight: 2.2kg
- Number per pallet: 150
- Colour: Black with yellow hooks

**LAMP BRACKET**
- Product No: TBA
- Width: 100mm
- Height: 125mm
- Weight: 84g, 152g with Solar Lamp
- Number per pallet: Order with other items
- Colour: White
**ENDURAFENCE**

Designed to protect deep excavations (over 1m) and hazardous sites, giving you the flexibility and security that you need.

Its lightweight design means that EnduraFence is easy to handle and can be erected by one person.

**Features**
- Compliant with Chapter 8 Streetworks (UK).
- 100% plastic non-conductive fence panel.
- 2m, anti-climb fence with narrow aperture.
- Can be supplied with integral reflective.
- Links directly with existing steel mesh fencing, using the same bases and clamps.
- Compact for easy transportation and storage.
- Strong yet lightweight.
- Easy one person assembly.
- Can be customised with corporate colour and logo.
- 1m wide gateway sections available.
- Ideal for outdoor events.
- Designed and manufactured in UK.
- 100% Recyclable.

**O4.11.10**

Pedestrian barriers alongside excavations should be the subject of a risk based assessment. Barriers alongside excavations greater than 300mm in depth should be able to withstand crowd pressure. These barriers should be capable of withstanding the loads defined in BS 7818 “Specification for pedestrian systems in metal”.

**ENDURAFENCE 2M**

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<th>0668</th>
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<td>Weight</td>
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<tr>
<td>Number / pallet</td>
<td>32-50</td>
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<tr>
<td>Colour</td>
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<tr>
<td>Test and data</td>
<td>Set up with 2m section wide and 1m section, each end at 90 degrees, wind blowing onto the side with the attachment</td>
</tr>
<tr>
<td>Maximum wind speed achieved</td>
<td>43mph (69 km/h)</td>
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<tr>
<td>MIRA Wind Tunnel Test</td>
<td>July 2009</td>
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<tr>
<td>Maximum sideways force</td>
<td>400 Newtons</td>
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**ENDURAFENCE 1M**

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<td>Orange (standard), other colours on request</td>
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