



Secured by Design



Police Preferred Specification



 Call our Expert Sales Team for more information.

First Fence Ltd | Kiln Way, Woodville, South Derbyshire, DE11 8EA  
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UK-QMS-00503-TEM

## High-Security Vertical Railing Solutions Certified to LPS 1175 SR1 (A1)

The EnviroProtect® vertical bar system, certified to LPS 1175 SR1 (A1), offers market-leading security with a 98% reduction in CO<sub>2</sub> emissions compared to traditional welded panels. Designed for high-risk sites requiring both protection and visual sensitivity, it is available in multiple heights to suit varying security needs. Ideal for residential, recreational, and public environments where security and sustainability must go hand in hand.

### Key Features

- ✓ **LPS 1175 SR1 A1 Certified**  
Independently tested and certified to resist opportunistic and experienced attacks using a range of manual and concealable tools.
- ✓ **No Weld Design**  
Our patented non-welded system is tested and certified to LPS 1175, offering strength equivalent to fully welded systems.
- ✓ **Light Weight**  
Made from pre-galvanised steel to EN 10346, offering durable outdoor protection without the cost, weight, or emissions of hot-dip galvanising.
- ✓ **A Size for Every Security Requirement**  
Available in 1.8m, 2.0m, 2.4m, and 3.0m heights, with panels that can be cut to width on-site while maintaining certification—flexible to suit most requirements.
- ✓ **RoSPA Compliant Safety**  
RoSPA-compliant anti-head entrapment design, featuring a 74.6mm daylight gap between rails—surpassing RoSPA's recommended maximum of 89mm.



### Suitable For

- ✓ Schools
- ✓ Home & Residential
- ✓ Parks & Recreational Facilities
- ✓ Healthcare & Care Homes
- ✓ Retail Properties
- ✓ Transportation Hubs
- ✓ Residential Utility Sites
- ✓ Telecommunication Hubs

### Specification

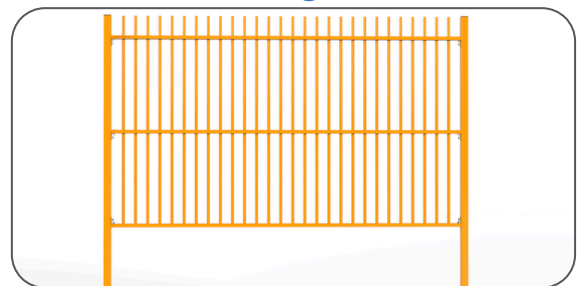
<b>Heights</b>	2.0m, 2.4m, and 3.0m above-ground heights available.
<b>Panel Width</b>	2.9 metres wide with a centre-to-centre post spacing of 2960mm from centre of each post.
<b>Infill</b>	Manufactured from 25.4mm outer diameter bars positioned at 100mm centres.
<b>Posts</b>	Constructed using 60x60mm Square Hollow Section in both dig-in and bolt-down variants.
<b>Fixings</b>	Each bay is supplied with six twisted EnviroProtect® cleats, complete with cleat and rail bolts featuring shear nuts.
<b>Finish</b>	Powder coated to BS 13438 in the below colours as standard.
<b>Installation</b>	All components are mechanically fixed on site, with the option to cut bay widths to suit a variety of smaller sizes.

#### Colour Options Include:

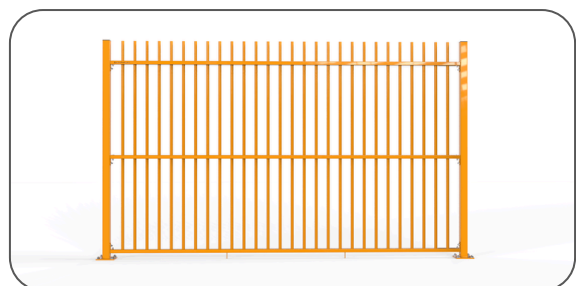
Black RAL 9005   Green RAL 6005   Grey RAL 7037   Blue RAL 5010   Red RAL 3020   Yellow RAL 1023



### EnviroProtect® Dig In System



### EnviroProtect® Bolt Down System



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## Hardware Explained

EnviroProtect® appears as a conventional vertical bar railing system at first glance, but its innovative patented assembly method makes it truly unique and market leading. To achieve its LPS 1175 SR1 (A1) certification, specific hardware components must be used, all of which are supplied with each kit to ensure full compliance and guaranteed security.

### Twisted SR1 Cleats

Designed similarly to standard EnviroRail® railings, these cleats feature anti-pry holes through the top face. When bolted, they prevent forced entry by stopping the rail from being pulled away from the post.



⊙ Ensures compliance with LPS 1175 SR1 (A1)

### Three Rail Support

The EnviroProtect® railing range includes a mid rail manufactured from 50mm x 30mm RHS steel, designed to prevent forced entry by resisting distortion or prising of the vertical infill bars.



⊙ Ensures compliance with LPS 1175 SR1 (A1)

### Support Leg

Each kit includes two support legs to prevent panel sagging caused by excessive force, such as climbing or jumping. These legs are concreted into the ground to ensure maximum panel strength and stability.



⊙ Ensures compliance with LPS 1175 SR1 (A1)

### Bolt Down Option

A rigid square base plate is provided for bolt-down installations where deep excavation is not feasible. For full LPS 1175 compliance, installation must include the supplied M16 x 125mm ground anchors.



✗ Not essential for LPS 1175 SR1 (A1) Compliance

### Corner Arrangement

EnviroProtect® enables corner arrangements using the existing 60mm x 60mm posts by simply drilling a new hole for an additional cleat slightly above the adjacent panel's hole.



⊙ Ensures compliance with LPS 1175 SR1 (A1)

### Anti-Crawl Prevention

In full compliance with LPS 1175, the bottom rail is positioned to maintain a 50mm ground clearance, preventing any gap exceeding 225mm that could allow an intruder's torso to pass beneath the panel.



⊙ Ensures compliance with LPS 1175 SR1 (A1)

## Built for Seamless Integration

All EnviroProtect® railings have been designed to integrate seamlessly with the matching EnviroProtect® gate range, featuring adjacent hinge and catch posts. By aligning the SR1 cleats on the hinge and catch posts, the railings and gates form a unified perimeter system, enhancing both aesthetics and security.

It is essential to use the approved Squire padlocks with all EnviroProtect® gates. Please follow the recommendations detailed in the drawings to ensure the site maintains full SR1 compliance.

### EnviroProtect® Gate With Adjacent Railing Panel Kit



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## Sizing and Sizes

EnviroProtect® is engineered to meet the rigorous standards of LPS 1175 SR1 (A1) and is available in the heights shown below. Panels may be cut to width on-site by the installer, but only in strict accordance with the O&M guide to maintain full security certification and system integrity.

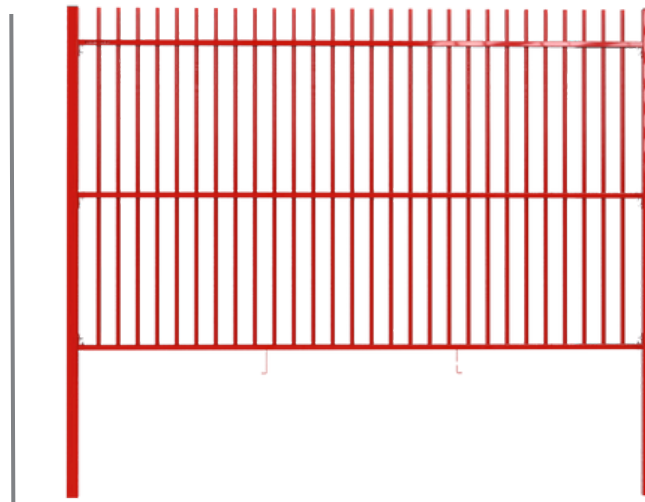
### Key Panel Dimensions

#### Certified Heights

Above Ground (mm)	Total Height (mm)
1800mm	2500mm
2000mm	2800mm
2400mm	3200mm
3000mm	3800mm

*Note: 2.1 metre available upon request*

Panel Width (mm) = 2900mm Panel Width / 2960mm Centres



## EnviroProtect® Gates to Suit

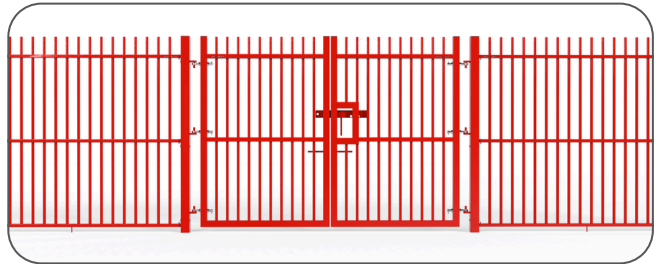
### Single Leaf Gate Kits

Single leaf gates available in heights from 1.8m to 3.0m, and in widths of 1.0m, 1.2m, 2.0m, and 3.0m.



### Double Leaf Gate Kits

Double leaf gates available in heights from 1.8m to 3.0m, with widths ranging from 2.0m to 6.0m.



## Approved Locking Padlocks

Squire SS50S



Compact and tough, ideal for space-limited applications with strong resistance to forced attacks.

Squire SS50CS



Closed shackle for added protection against cutting and prying in exposed environments.

Squire SS65S



Mid-size, high-security padlock with corrosion resistance for demanding outdoor use.

Squire SS65CS



Closed shackle version of the SS65, offering enhanced physical attack resistance.

Squire SS80S



Heavy-duty CEN 6-rated padlock for high-risk sites needing maximum security.

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