



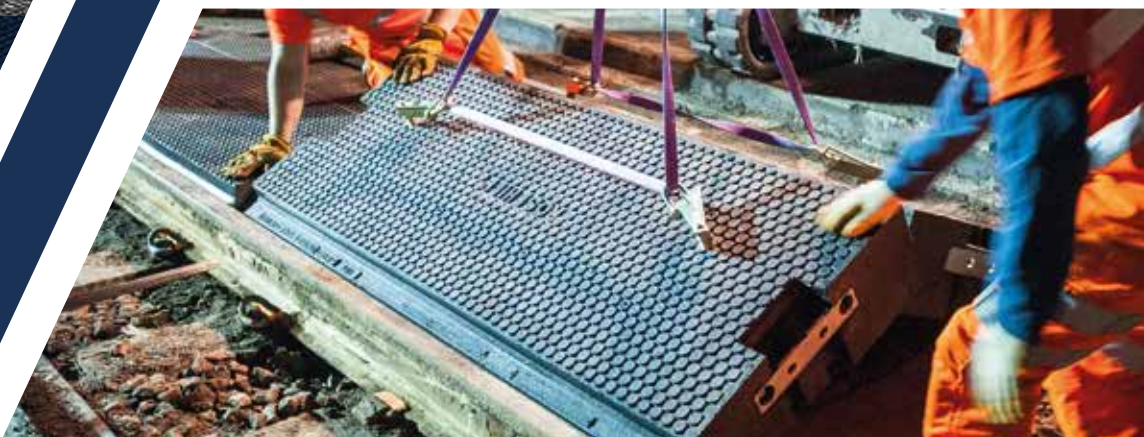
Rosehill Rail

# RAIL CROSSING SOLUTIONS

## INNOVATIVE RUBBER LEVEL CROSSING PRODUCTS

Sustainably and efficiently manufactured in the UK from 100% recycled tyre rubber and bonded with our unique polyurethane chemistry, Rosehill Rail's solid rubber compound panels are tough, durable, and engineered for long-term use.

Designed for simplicity and performance, our innovative rubber panels help to lower life cycle costs.



GET IN  
TOUCH



+44 (0)1422 839 610



info@rosehillrail.com



Beech Road, Sowerby Bridge,  
West Yorkshire, HX6 2JT, UK



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**Rosehill Rail**

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IN PARTNERSHIP WITH:



TRAFIKVERKET



Based in Sowerby Bridge, West Yorkshire we are strategically placed to access major motorway systems to ensure just-in-time on-site delivery or onward shipment overseas.

The support and service offered by Rosehill Rail is backed up by over 30 years' experience in polyurethane and rubber technology. Rosehill has amassed a wealth of experience during their long history in the rail industry, working with a range of global rail infrastructure companies and operators on a wide variety of projects.

#### Manufactured to Your Individual Requirements

Our products are manufactured at a purpose-built production facility in the UK which features automated production lines operated by a team of experienced staff, allowing us to produce a high volume of products with very short lead times.

Using cold compression moulding drastically reduces not only the manufacturing time but also the amount of energy used, making our recycled rubber level crossing solutions an affordable and sustainable alternative to concrete.

#### Quality

Rosehill operates a quality assurance system complying with the International Standard ISO9001:2008, which is audited annually by NQA (National Quality Assurance). The plant and machinery used in this process has been designed and built specifically for the production of rubber rail crossing products and is maintained under contract by specialist engineers.



# CROSSINGS BY TYPE

Our innovative level crossing systems allow for safe driving and walking wherever road and rail cross

## INDUSTRIAL

**TITAN**  
HEAVY TRAFFIC P11



## ROAD

**BASEPLATE** **CONNECT** **TITAN**  
LOW TRAFFIC P5 HIGH TRAFFIC P9 HEAVY TRAFFIC P11



## RRAP

**BASEPLATE** **INTERLOCKING**  
600MM SLEEPER P5 IRREGULAR SLEEPER P7



## METRO

**BASEPLATE** **INTERLOCKING** **CONNECT**  
LOW TRAFFIC P5 IRREGULAR SLEEPER P7 HIGH TRAFFIC P9



LOW TRAFFIC P5 IRREGULAR SLEEPER P7 HIGH TRAFFIC P9  
**BASEPLATE** **INTERLOCKING** **CONNECT**

## DEPOT



600MM SLEEPER P5 IRREGULAR SLEEPER P7  
**BASEPLATE** **INTERLOCKING**

## PEDESTRIAN



LOW TRAFFIC P5 IRREGULAR SLEEPER P7 HIGH TRAFFIC P9  
**BASEPLATE** **INTERLOCKING** **CONNECT**

## USER WORKED





# BASEPLATE SYSTEM

The ideal solution for pedestrian crossings



Rosehill Rail's innovative Baseplate Crossing System is the ideal solution for pedestrian, occupational, RRAPS and other light-use crossings.

Panels are connected using a galvanised steel **Turret Baseplate Clip**, secured in slots moulded into the underside of each panel. Longitudinal movement of the crossing is prevented with the use of our galvanised steel **Winged Baseplates**, designed to straddle the width of the sleeper.

The Rosehill Baseplate crossing system's solid rubber panels can be cut to fit around fishplates, check rails (single and double), and turnouts. Panels can also be manufactured to fit around tight curves, making them especially useful for tramway applications.

The system allows for very fast installation using **Rosehill Lifting Pins**, is ideal for average sized crossings, and is available in various grades to accommodate track access, depots, agricultural, and pedestrian applications.

## SYSTEM OVERVIEW



LOW TRAFFIC



600MM SLEEPER CENTRES



QUICK INSTALL



ANY RAIL CLIP OR SLEEPER

ROAD

RRAP

PEDESTRIAN

METRO

DEPOT

USER WORKED



# INTERLOCKING SYSTEM

Installed independent  
of sleeper centres



Rosehill Rail's Interlocking RRAP (road rail access point) is a high-strength modular system which can be installed independent of sleeper spacing.

Individual panels are manufactured to fit the specific rail, sleeper, and fastener type to ensure the perfect fit, then locked together to prevent them becoming dislodged.

Ideal for temporary, semi-permanent, and permanent access points, the system has been designed to be quick and easy to install, reducing track possession times and delivering significant cost savings.

Sustainably manufactured in the UK from recycled tyre rubber, the system allows for very fast installation using Rosehill Lifting Pins and is ideal for low-use crossings such as user worked.

## SYSTEM OVERVIEW



LOW  
TRAFFIC



IRREGULAR  
SLEEPER  
CENTRES



QUICK  
INSTALL



ANY RAIL  
CLIP OR  
SLEEPER

RRAP

DEPOT

USER WORKED





Designed to provide a stable crossing at any angle and in all operating conditions, Rosehill Rail's CONNECT system is ideal for roads with heavy traffic or crossings at an acute angle to the road.


The solid rubber panels can be quickly and easily removed and replaced for maintenance, without dismantling other parts of the crossing.

Sustainably and efficiently manufactured in the UK from 100% recycled tyre rubber and bonded with a unique polyurethane chemistry, Rosehill Rail's solid rubber rail crossing panels are tough, durable, and engineered for long-term use.

Panels can be manufactured for all gauge types, and adapted for all types of rails, clips, and sleepers.

SYSTEM OVERVIEW

HIGH TRAFFIC

600MM SLEEPER CENTRES

QUICK INSTALL

ANY RAIL CLIP OR SLEEPER

ROAD

METRO

DEPOT

USER WORKED



# TITAN SYSTEM

For the world's most extreme traffic



**TITAN is the ultimate heavy-duty system able to accommodate some of the world's heaviest traffic, from articulated dumpers to multi-axe haul trucks and ballast tractors.**

Rosehill's exclusive cold cure moulding process allows the production of panels with surface deflection equal to rubber but with the strength of steel, offering a genuine and sustainable alternative to concrete that won't crack, crumble or spall.

The crossing can be quickly assembled on site, with panels manoeuvred into place using **Rosehill Lifting Pins**. The panels are then connected with horizontal fixings secured from above using the innovative **LINK** connector.

Individual TITAN panels are compression moulded to avoid distortion and gapping which can affect rubber crossing systems manufactured using other methods. Panels can be manufactured for any track gauge and adapted for most types of rails, clips, and sleepers.

SYSTEM  
OVERVIEW



EXTREME  
TRAFFIC



600MM  
SLEEPER  
CENTRES



QUICK  
INSTALL



ANY RAIL  
CLIP OR  
SLEEPER

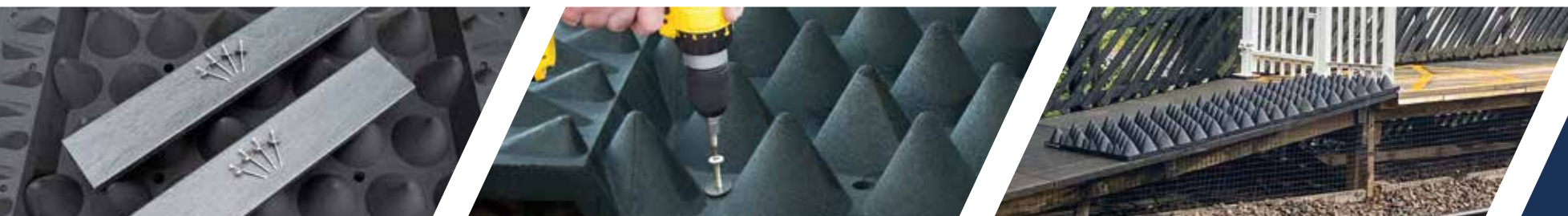
ROAD

INDUSTRIAL



# ANTI-TRESPASS PANELS

A proven visual and physical deterrent



Rosehill Rail's Anti-Trespass Panels are a proven visual and physical deterrent to people attempting to access rail tracks or other prohibited areas, with pre and post implementation studies showing them to reduce the number of unauthorised people trackside by up to 78%.

The double flange panel is intended for use in a four foot gauge, fitting comfortably into the webs of the rails. Single flange panels will typically be installed on the outside of the four foot gauge, eliminating the need to cut down the double flange panel on-site.

The full width flangeless panel is ideal for all off-track applications including platform ends. It has been developed to be effective as part of a complete matrix at wider level crossings/wideways.

Each panel is supplied with a fixing kit, complete with plastic 'planks' and fixing screws to enable immediate mobilisation, for easy installation onto virtually any surface, either trackside or on the platform.



Single Flange



Double Flange



Flangeless



# EDGE BEAMS

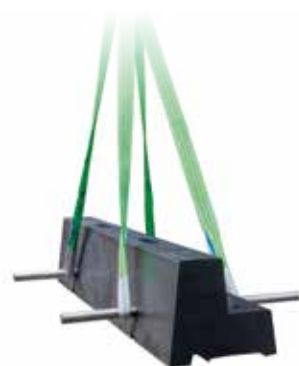
A sustainable rubber alternative to concrete



Made from 100% recycled tyre rubber and bonded using innovative cold cure technology to ensure a long life, Rosehill Rail's Edge Beams are installed in exactly the same way as concrete alternatives.

Unlike concrete, however, our rubber edge beams won't crack, pit or spall due to freeze-thaw cycles, providing a long-lasting, low maintenance solution.

Available in standard 1.8 metre lengths, Rosehill Rail rubber edge beams can be delivered efficiently and stacked without the problems associated with concrete. Used by rail networks across the world, they are ideal for use on both new installations and maintenance projects.





# LIFTING TOOLS

Quick and easy lifting  
for faster installation



Rosehill Rail provide a range of tools designed to safely assist the lifting and installation of our rubber level crossing solutions and anti-trespass panels.

Designed in-house, Rosehill Lifting Pins have a safe working load of 350kg and our Lifting Hooks of 200kg, and both are intended to be quick and easy to use, allowing installation in a matter of minutes.

Rosehill Lifting Pins are supplied with LOLER certification and have been specifically developed to quickly lock into position to enable safe and secure lifting.



Lifting Hooks



Lifting Pins



# ACCESSORIES

We offer a range of spares and accessories.  
Please contact us directly for a quotation.

## OMNI SCREWS

300mm length, 22mm T70 impact drive bit, and hexagonal impact socket



## CHAIN GUARD

Absorbs chain impacts to protect the rubber crossing panels.



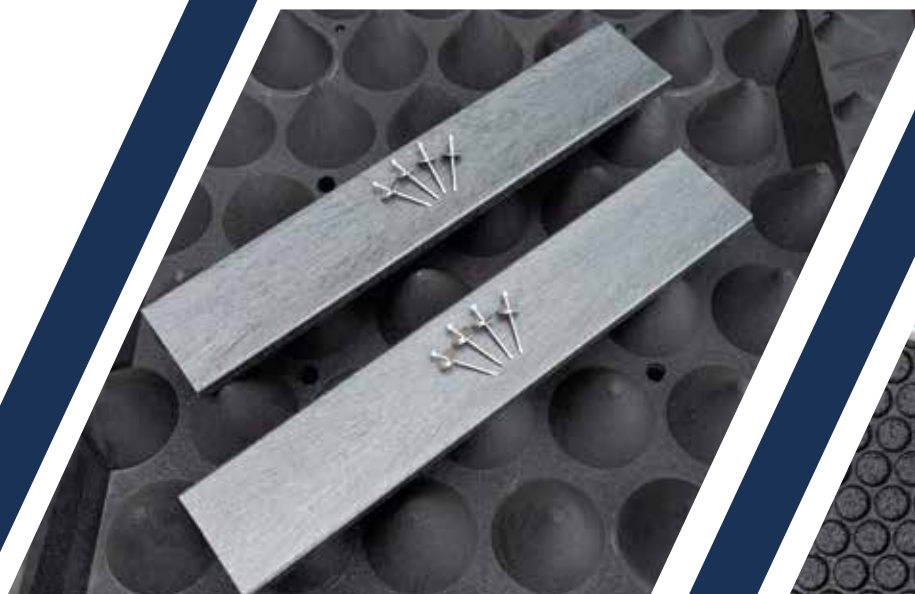
## END RESTRAINT

Used to secure the crossing to the rails in order to prevent movement.



## COVER PLATE

Used to fill connector holes once the panels have been securely connected.



## FIXING KIT

Includes two planks and eight screws to secure panels in place.



## M18 TOOL KIT

27mm Spanner, 27mm Ratchet Spanner, and 27mm Pre-set Torque Wrench.



## PRIMER

Use before line marking to ensure better paint adhesion to our products.



## RUBBER PLUGS

Used to fill bolt-holes in our rubber panels once installed.



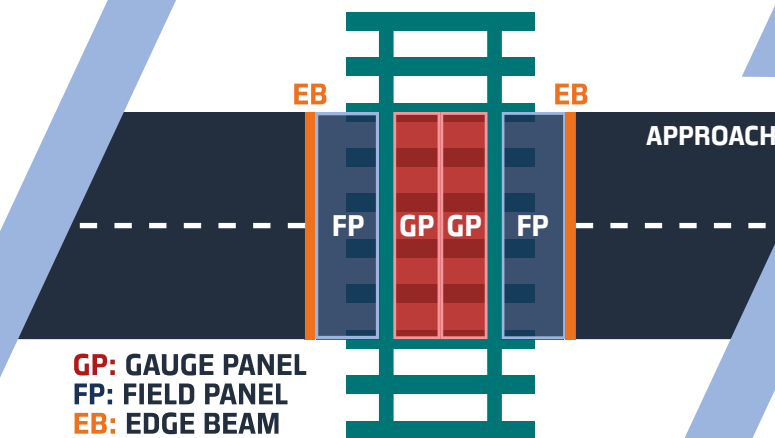
# PRODUCT INFORMATION

## CROSSING SYSTEMS

Rosehill Level Crossings consist of multiples of:

- x2 Gauge Panels**  
to fill between the rails, the 4'
- x2 Field Panels**  
to fill the outside of the track, the 6' or CESS

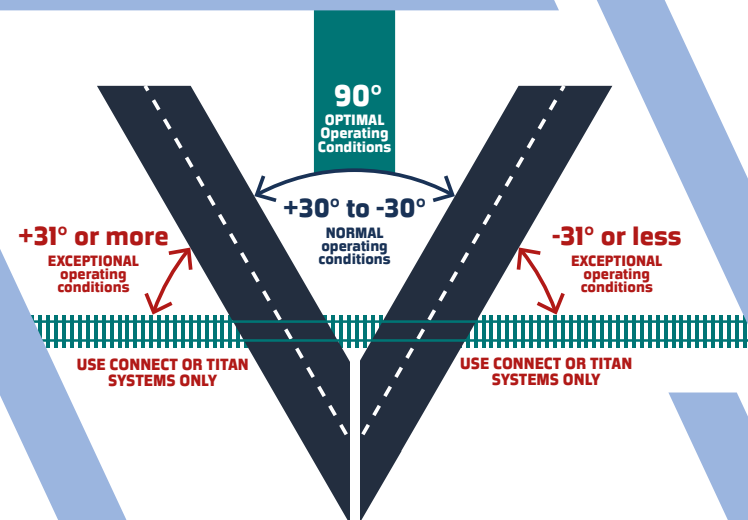
To provide an interface between the rubber level crossing panels and the track/road approaches (bitumen/concrete) we recommend the use of an Edge Beam (P15).



## ANGLED CROSSINGS

Installing level crossings at an angle to the railway:

- +/-30°** When using the Baseplate System (P5) or Interlocking RRAP System (P7), the road angle should be within 30 degrees of the 90.
- +/-31°** For crossings at angles of more than 30 degrees, the CONNECT System (P9) or TITAN System (P11) should be used.



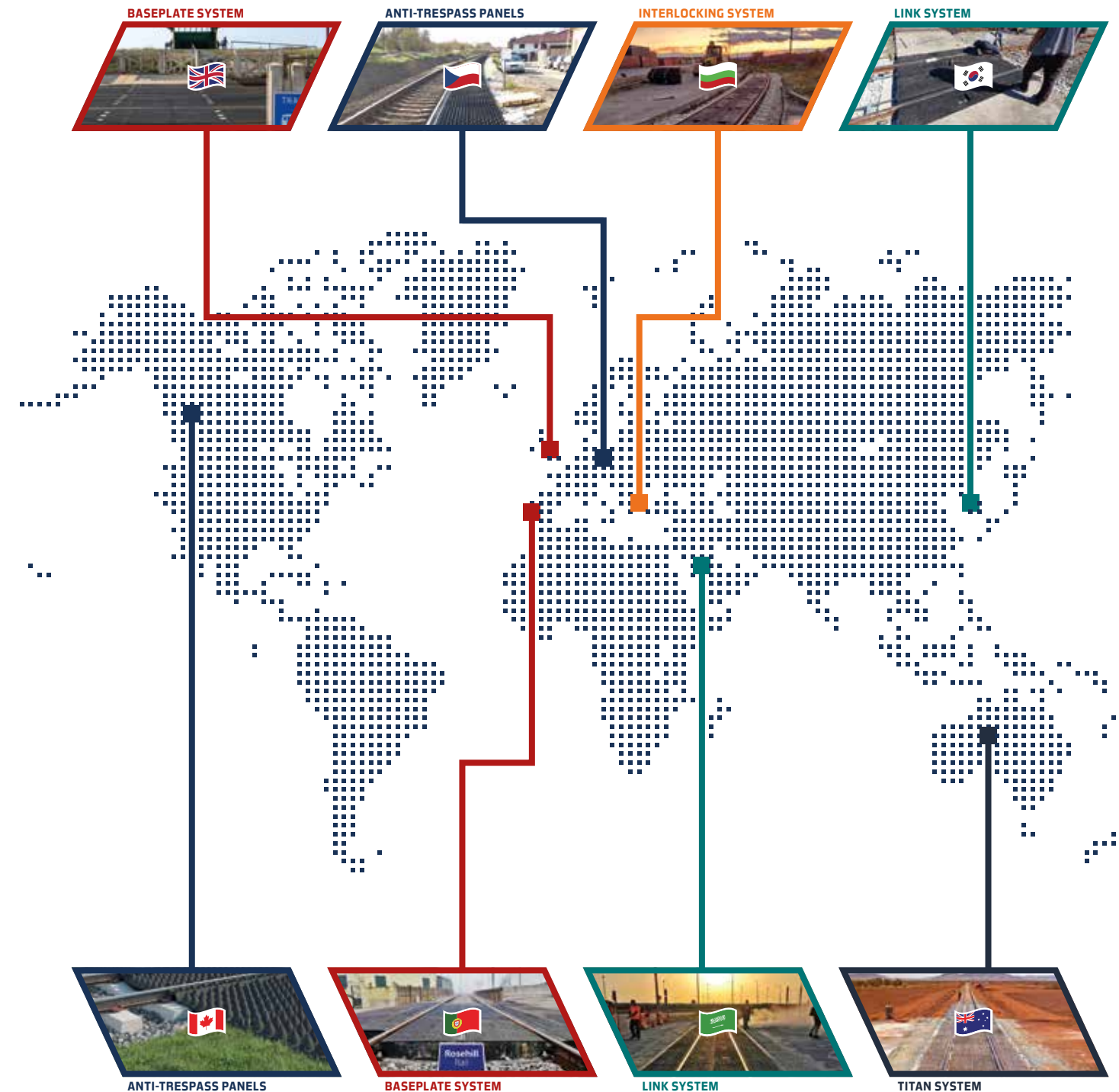
## NETWORK RAIL PRODUCT ACCEPTANCE CODES



| BASEPLATE  | INTERLOCKING | PEDESTRIAN | TRACK ACCESS | AGRICULTURAL | ANTI-TRESPASS | EDGE BEAMS |
|------------|--------------|------------|--------------|--------------|---------------|------------|
| PA05/00047 | PA05/04429   | PA05/04986 | PA05/03302   | PA05/04985   | PA05/01732    | PA05/00047 |

FULL PRODUCT INFORMATION AT [ROSEHILLRAIL.COM](http://ROSEHILLRAIL.COM)

# AROUND THE WORLD



Our innovative rail crossing systems and anti-trespass solutions are trusted by rail authorities around the world.

