

# The Miniature Railway Supply Co. Ltd.

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2018A

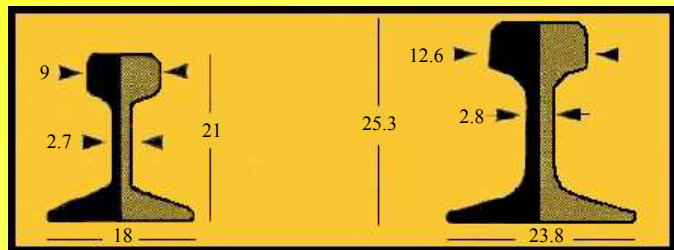
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# RAIL

## Aluminium Alloy and Steel

We offer a wide range of rail profiles to suit 3 1/2" to 15" gauge railways. For scenic running in smaller gauges and static display track please refer to pages 9 and 10.



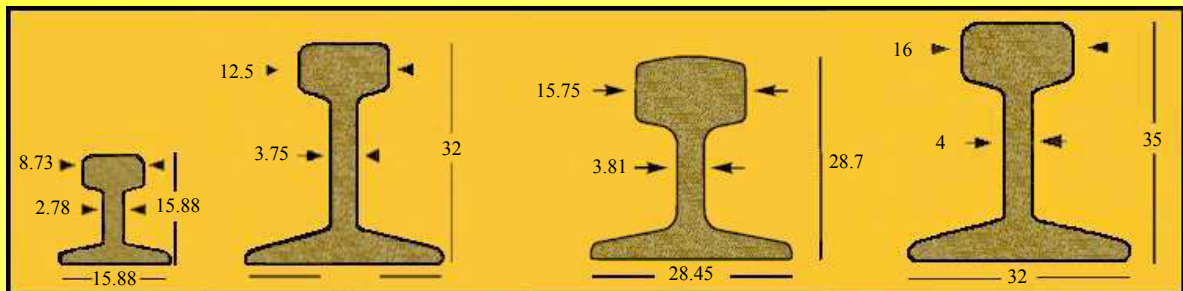
Steel and aluminium alloy

21mm high

US 1 1/2"

1 kg/m (2 lbs/yd)

Aluminium alloy only



16 mm  
(5/8" high)

Medium 32

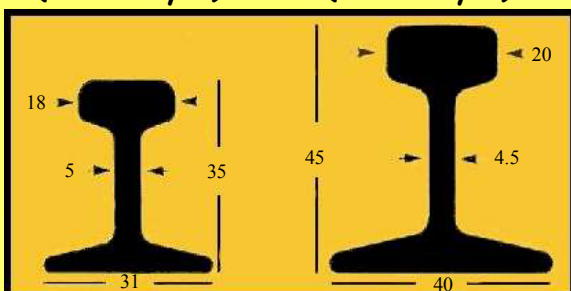
Fenlow Heavy  
Duty

Heavy 35

3kg/m  
(6 lbs/yd)

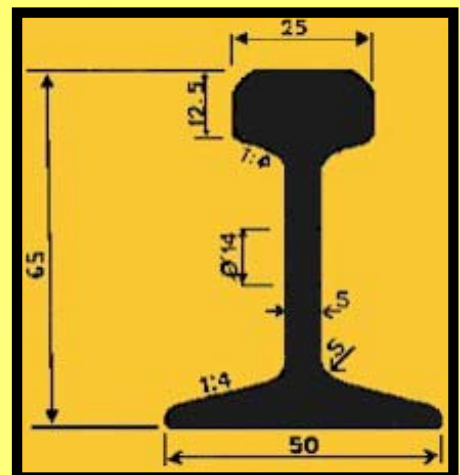
4.4kg/m  
(9 lbs/yd)

S - 7  
(13 1/2 lb/yd)



Steel only

**1**



## Which rail for which gauge??

LU = Light Use  
NG = Narrow Gauge  
- = Not Applicable

Rail Sections

Gauge	Small			Large		5/8" high	21mm high 2lb./yard	US 1 1/2"	Medium 32	3kg/m 4.4kg/m	Heavy 35 Fenlow H/D	S - 7
	BH Brass	Small FB Brass	Small FB Brass	FB Brass	FB Brass	Aluminium only	Steel/ aluminium	steel/ aluminium	Aluminium only	Steel only	Aluminium only	Steel only
0g	Yes	Yes	Yes	Yes	NG	-	-	-	-	-	-	-
G1	Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	-
2 1/2"	-	-	-	-	Yes	-	-	-	-	-	-	-
3 1/2"	-	-	-	-	Yes	Yes	Yes	-	-	-	-	-
5"	-	-	-	-	-	Yes	Yes	Yes	Yes	-	-	-
7 1/4"	-	-	-	-	-	LU	Yes	Yes	Yes	Yes	Yes	-
10 1/4"	-	-	-	-	-	-	-	LU	LU	Yes	Yes	Yes
15"	-	-	-	-	-	-	-	-	-	-	-	LU

We believe that for many applications steel is more appropriate than aluminium.

## STEEL VERSUS ALUMINIUM ALLOY

### Pros and cons of using aluminium alloy rail:

- Aluminium is easy to work with as it curves and machines more easily than steel.
- It does not rust and is cleaner than Steel (however aluminium oxide is abrasive).
- It is quieter than steel.
- It has approximately twice the expansion rate of steel.
- Dust and grit can embed itself in the rail head causing an abrasive wear surface which can result in wheel wear.
- It can be slippery and difficult to clean in some circumstances.

### Pros and cons of using steel rail:

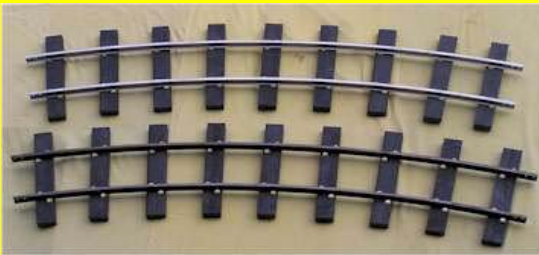
- It is more realistic than aluminium alloy.
- It is more robust and harder wearing.
- It is not as attractive to theft as aluminium alloy.
- It has approximately half the expansion rate of aluminium alloy.
- It rusts although aluminium alloy rail is liable to wear with use whereas steel rail is likely to be protected by oil dispersion from locomotives.
- It is easier to clean than aluminium alloy.



# **TRACK KITS AND** **ASSEMBLED PANELS**

Available as self assembly kits  
or ready to lay track panels.

**Straight or  
Curved**



(Radii to customers requirements)

- # Sleepers pre-drilled for rail screws
- # Rail ends punched for Fishbolts
- # Fishplates, Fishbolts and nuts included
- # Curved kits/Panels have inside rail cut short to ensure parallel joints

**Wide choice of:**

**Gauge, Rail, Sleeper Material, Fixings and Fittings**

**Multi-gauge also available**

Some of our more popular options include:

## **5" gauge**

16mm (5/8") aluminium alloy rail 2.5 metres long, with moulded plastic chairs screwed to hardwood sleepers.

16mm (5/8") aluminium alloy rail 2.5 metres long, screwed to recycled plastic sleepers.

21mm aluminium alloy rail 3 metres long, screwed to hardwood sleepers.

21mm aluminium alloy rail 3 metres long, with moulded plastic chairs screwed to moulded plastic sleepers.

## **7 1/4" gauge**

16mm (5/8") aluminium alloy rail 2.5 metres long, with chairs screwed to moulded plastic sleepers.

21mm aluminium alloy rail 3 metres long, screwed to hardwood sleepers.

2lbs/yd steel rail 3 metres long, screwed to recycled plastic sleepers.

**Many other options  
available**

**3**

**Please see price list  
for full details**

# **SLEEPERS**

Multi-gauge sleepers available

3 ½" g (Scale Only)  
5" g (Scale and General Purpose)  
7 ¼" g (General Purpose)  
10 ¼" g (General Purpose)  
Other sizes to order

## **Moulded Plastic Sleepers**

Available in :



5" g  
7 ¼" g

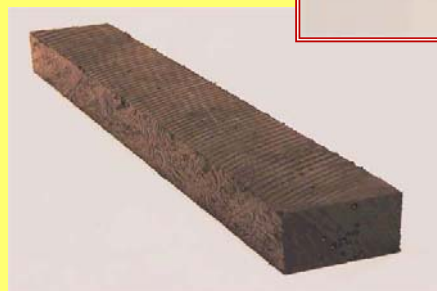
Moulded plastic sleepers are used with plastic rail chairs which allows the gauge to be set automatically.



## **Recycled Plastic Sleepers**

Available in:

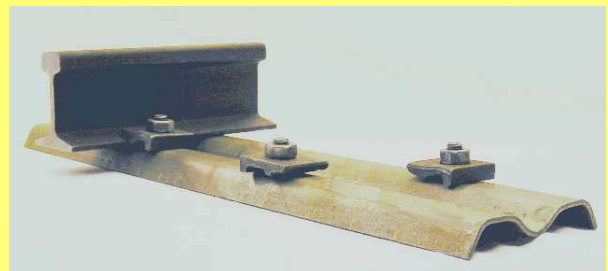
5" g  
7 ¼" g  
9 ½" g and 10 ¼" g



## **Pressed Steel Sleepers**

For use with heavy steel rail sections.

7 ¼" g   10 ¼" g   15" g



# **FISHPLATES, FISHBOLTS** **AND NUTS**

**Fishplates, Fishbolts and nuts available to suit all rail.**



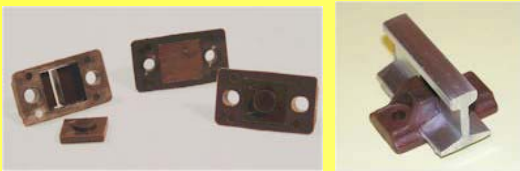
Each of our rail sections have specially designed Fishplates to ensure adequate rail joint strength.

We offer a rail end punching service for Fishbolts on all our rail sections.



## **RAIL FIXINGS**

### **RAIL CHAIRS**



Moulded plastic rail chairs are available to suit 16mm, 21mm high and 2lbs/yd rail.

Spigot back (for use with moulded plastic sleepers) and flat back (for use with all other sleepers) are available. Gauge is automatically set when used with moulded



plastic sleepers.

### **RAIL SCREWS**

Rail screws are available to suit most applications.



### **DOG SPIKES & PUP PINS**

Available in various sizes to suit larger rail profiles.





Our specially designed Fishbolts have an oval neck under a cupped head which creates a stronger bolt and only requires a single socket on assembly when used with our Fishplates.



## **TURN TABLE** **RING RAILS**

Made to order  
Any diameters  
Any rail section



# **POINT LEVERS**



A complete, ready for use, small cast iron point lever.

2 sizes available.

Suitable for 5" gauge and 7 1/4"

- Trailable in either direction
- Can also be set to act in the manner of sprung points.

Large point lever components.

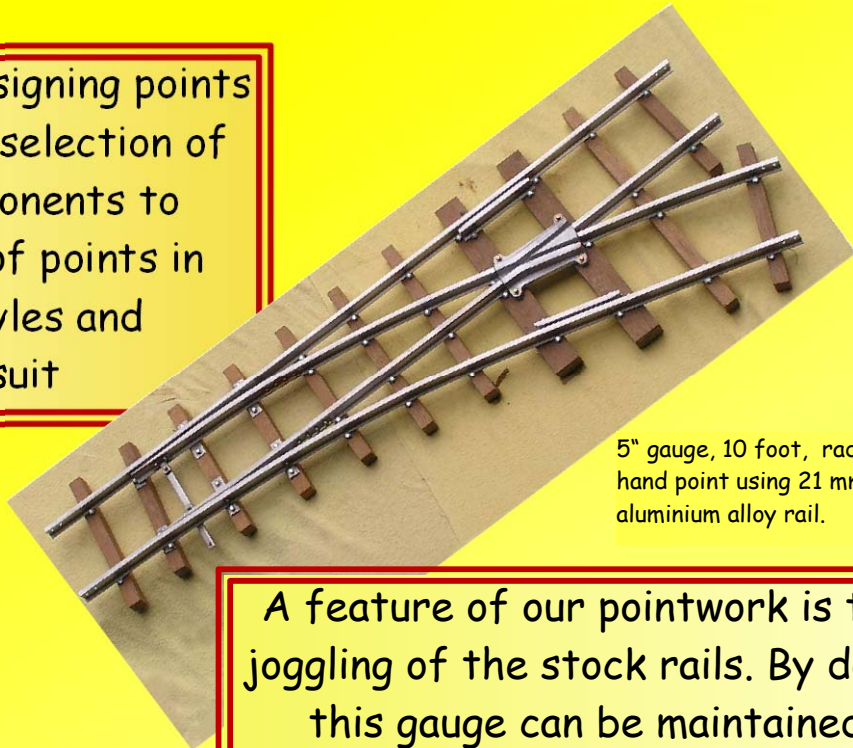


Small point lever components.

# POINTS

Available ready made  
and in kit form.

Our method of designing points enables our wide selection of standard components to create a range of points in different styles and radii to suit



5" gauge, 10 foot, radius right hand point using 21 mm high aluminium alloy rail.



5" gauge, 10 foot, Wye point using 21 mm high aluminium alloy rail.

A feature of our pointwork is the joggling of the stock rails. By doing this gauge can be maintained throughout the point in a neat and consistent manner.



Tip of blade, and stock rail showing joggle together with the slide plate for the blade tip.

Stand up bracket - secures the rail where the foot of the rail is cut away one side for the point blade



Tie bar bracket mounted on the point blade.

Traditional point work components can be produced with spliced crossing nose and pressed wing rails in the larger rail sections.

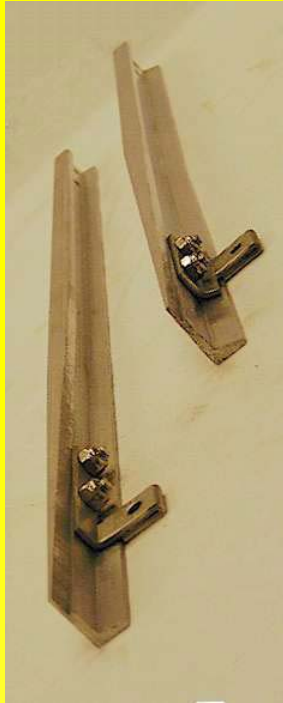
Our consistent method for manufacturing pointwork components ensures compatibility of additional items.





# POINTWORK : STANDARD RADII

Permutations obtainable using our standard components:



## 5" gauge

Radius of Left and Right hand Points	Crossing Angle
10ft	1 in 3 ½
15ft	1 in 4
20ft	1 in 5
30ft	1 in 6
40ft	1 in 7
55ft	1 in 8

Radius of Symmetrical Wye Points	Crossing Angle
10ft	1 in 2 ½
15ft	1 in 3
20ft	1 in 3 ½
30ft	1 in 4
45ft	1 in 5

## 7 ¼" gauge

Radius of Left and Right hand Points	Crossing Angle
10ft	1 in 2 ½
12ft	1 in 3
15ft	1 in 3 ½
20ft	1 in 4
30ft	1 in 5
45ft	1 in 6
60ft	1 in 7
80ft	1 in 8

Radius of Symmetrical Wye Points	Crossing Angle
15ft	1 in 2 ½
20ft	1 in 3
30ft	1 in 3 ½
40ft	1 in 4
60ft	1 in 5

# CAST CROSSING UNITS

## Aluminium and Cast Iron

We offer cast crossing units in the sizes listed above. They are intended for use with the 21 mm high and 2lbs/yd rail but can be used with other rail sections when combined with a packing plate or set into the sleepers.

Flangeway suitable for 5" and 7 ¼" gauge use.



# SHOW TRACK KITS

**Sold in kit form or as separate components.**

**Available for:**

**2½" gauge**

**3½ " gauge**

**5" gauge**



Excludes wooden base

Kits available in: 1 m or ½ m lengths.

Each kit contains; rail, sleepers, chairs, key strip material and ballast.



2 ½" gauge

3 ½" gauge

5" gauge



7 ¼" gauge cast white-metal

**Dummy Cast white-metal Fishplates.**



Two Pairs of Fishplates shown

Separate components available for pointwork, signal posts, buffer stops and mounting of signs:

**Rail**

**Sleepers Fishplates**

**Chairs & Key Strip**

# **SCALE LOCOMOTIVE LAMPS**

To suit: 3½" g, 5" g and 7¼" g

Three styles available:

**LMS**



**GWR**



**BR**





# SIGNS

## CAST ALUMINIUM

### **Beware Of Trains (large)**

Height 190mm  
Width 260mm



### **Crossing No Gates (small)**

0-6-0 and 4-6-0 designs



Height 175mm  
Width 105mm

### **Crossing No Gates (large)**

Height 260mm  
Width 165mm



### **Beware Of Trains (small)**

Height 75mm  
Width 150mm



### **Beware Of Trains (medium)**

Height 125mm  
Width 175mm



### **Shut The Gate**

Height 75mm  
Width 455mm

### **Station Master**

Height 60mm  
Width 310mm



### **Whistle**

Height 60mm  
Width 195mm

### **Waiting Room**

Height 60mm  
Width 310mm



### **Limit Of Shunt**

Height 140mm  
Width 170mm



### **Private**

Height 90mm Width 355mm

### **SW**

Height 85mm  
Width 110mm



# **STEEL SIGNS**

## **SPEED SIGN - 5**

(Large)



Height 260mm  
Width 165mm

(Small)



Height 130mm  
Width 85mm

## **SPEED SIGN - 15**

(Large)



Height 260mm  
Width 210mm

(Small)



Height 130mm  
Width 105mm

## **SPEED SIGN - 10**

(Large)



Height 130mm  
Width 210mm

(Small)



Height 130mm  
Width 105mm

## **SW**

(Large)



Height 260mm  
Width 310mm

(Small)



Height 130mm  
Width 155mm

## **DIRECTION**

### **ARROW**



Height 30mm Width 120mm

# **SIGNALS**

## **STEEL SIGNAL ARMS**

Suitable for

5" and 7¼" gauge  
(non scale)



GWR style home signal

- distant style also available

Height 75mm  
Width 200mm



Distant

Height 70mm  
Width 200mm



Home

Height 70mm  
Width 200mm



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Established in 1989, we specialise in providing a wide selection of rail sections and fittings. We stock a specialist range of small steel rail sections alongside an extensive range of aluminium rail profiles, together with fittings, track materials and point work components. Trackwork and point work can be supplied to your requirements. We also offer a range of accessories and lineside items.



We are a full time business maintaining extensive stocks and provide a prompt delivery of standard items, many of which can be drawn immediately from stock.

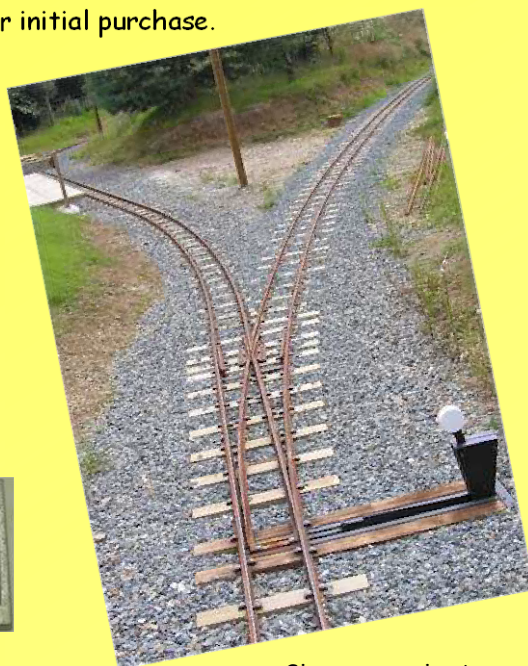
We can provide support and advice at any stage of your project, in most circumstances being able to offer a choice of solutions to suit your requirements.

We take pride in offer ongoing customer support long after your initial purchase.

Visit: [www.miniaturerailwaysupply.com](http://www.miniaturerailwaysupply.com)

Visitors welcome by prior appointment.

Please ensure that directions are obtained before travelling.



Phone 01442 214702  
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Sizes approximate  
Terms and conditions apply.  
See separate price lists for additional detail.  
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