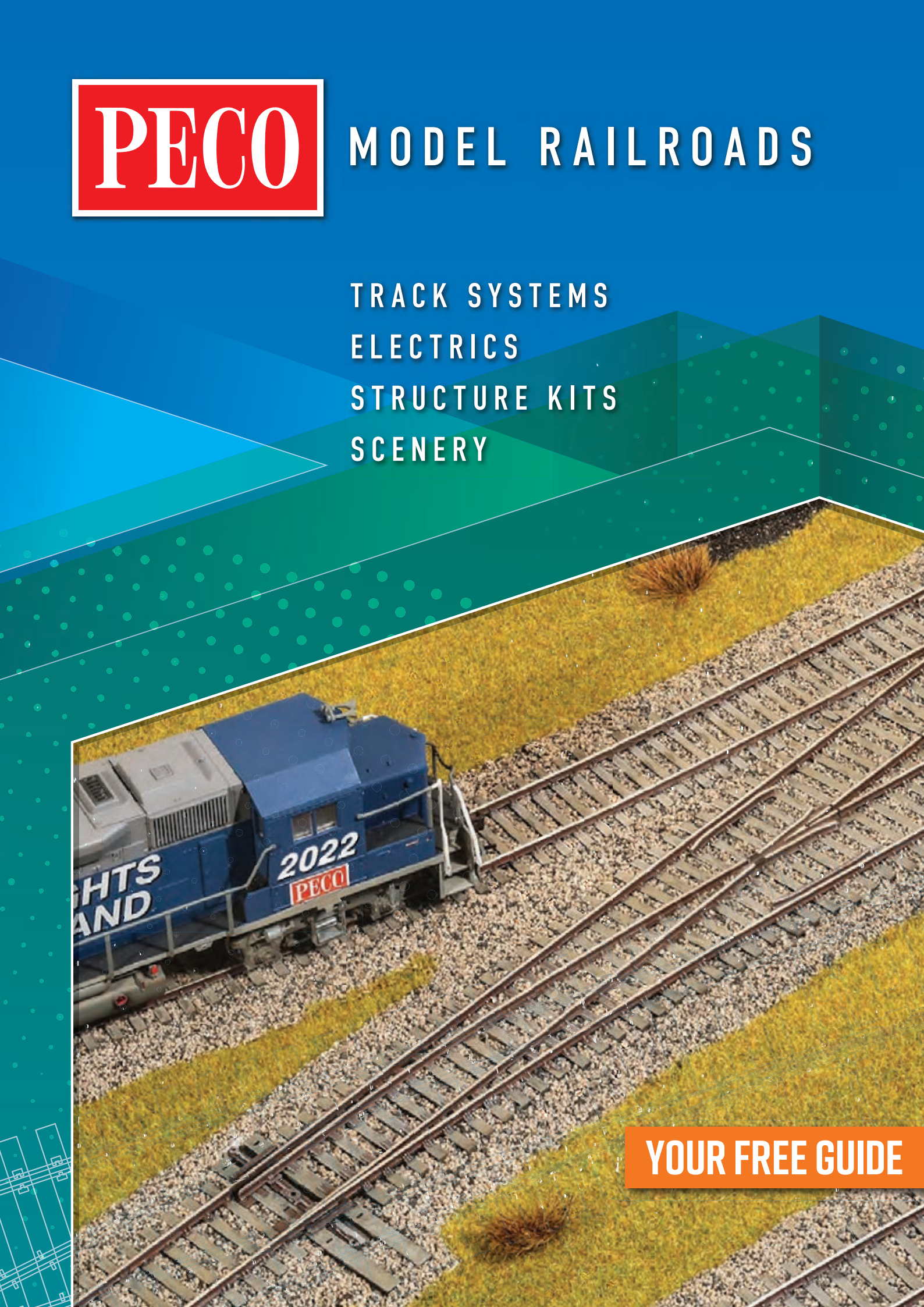
PECO MODEL RAILROADS

TRACK SYSTEMS
ELECTRICS
STRUCTURE KITS
SCENERY



YOUR FREE GUIDE

Liberty, Kansas may occupy just a small corner of the huge Union Pacific empire, but here Alco S4 switcher 1156 is providing a vital freight transport link for this community. The weeds grow on the lightly used siding in the foreground of Roger Nicholls' HO cameo layout. *Photo: Derek Shore*

Meanwhile in another time and place, at the heart of the city's business district, Chesapeake and Ohio 0-8-0 switcher shuffles loaded coal cars on Malcolm and Chris Chinnery's urban themed *Bad Aston* (HO Code 100 track). *Photo: Craig Tiley*

Note: dimensions quoted throughout this catalog are in millimeters. Use this conversion scale to visualize the equivalent size in inches.

Cover photo: Bob Phelps' impeccably laid HO Code 83 trackwork on his extensive *Green River, Wyoming* layout. *Photo: Steve Flint*

PECO

Beer, Devon, England
The Home of PECO

PECO stands proudly above the village of Beer, high on the hillside overlooking the sea. In fact, it is located at the Heart of Lyme Bay in the middle of the World Heritage Jurassic Coast. The 9 acre (3.5 hectares) site includes the manufacturing production unit, offices and one of South West England's best loved tourist attractions, **PECORAMA**. Our coastal location is spectacular and being a popular vacation destination there is much to see and enjoy!

The **RAILWAY MODELLER** and **CONTINENTAL MODELLER** magazines are both published by PECO. As far as we know, there is no other model railroad manufacturer, publisher of model railroad magazines and books and tourist operator quite like PECO, for it is a business run by enthusiasts for enthusiasts and their friends. We are here as a family business ready to support the hobby the world over!

If you turn to the inside back cover of this latest catalog you'll see details of how to access our ever expanding collection of modeling tutorials on our Youtube channel.

This catalog highlights just a selection of products for the North American market yet on our website you'll find all the products manufactured by the PECO Group of Companies that includes RATIO, WILLS, PARKSIDE, and PECO MODELSCENE.

On our website you can create your own wishlist of products for your railroad, download free Turnout and Crossing Plan Sheets and follow the links to watch helpful technical advice videos on PECO TV!

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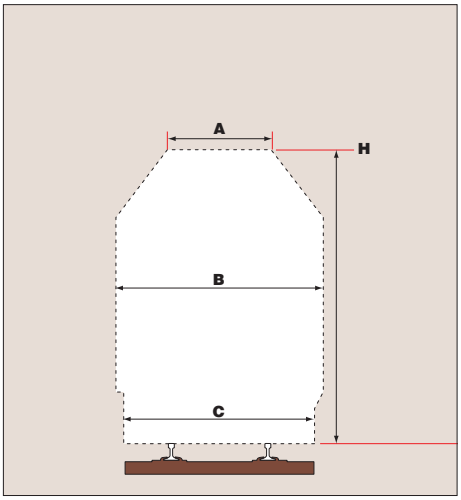
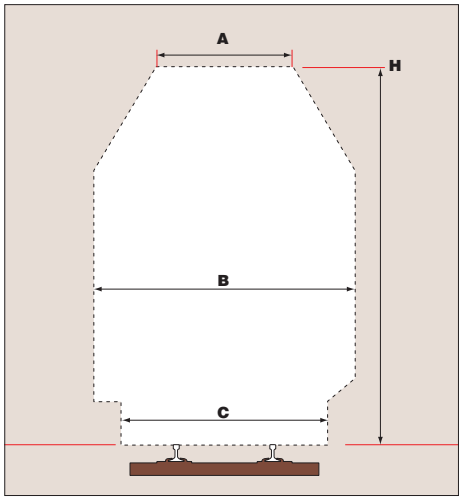
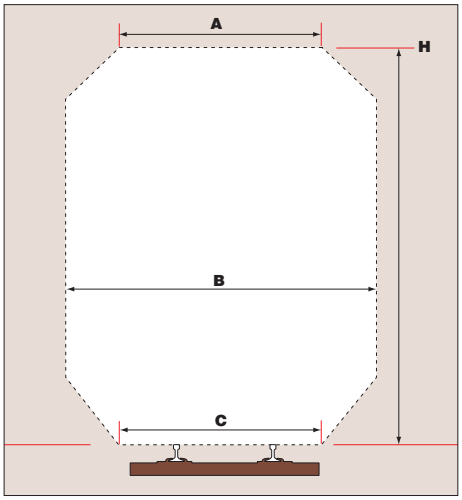






Old Time Era

Ref.	N	HO	O
A	0.5in 12mm	0.79in 20mm	1.5in 38mm
B	0.87in 22mm	1.65in 42mm	2.99in 76mm
C	0.79in 20mm	1.5in 38mm	2.75in 70mm
H	1.26in 32mm	2.32in 59mm	4.25in 108mm

Classic Era

Ref.	N	HO	O
A	0.63in 16mm	1.1in 28mm	2in 50mm
B	1.1in 28mm	2.04in 52mm	3.78in 96mm
C	0.87in 22mm	1.65in 42mm	3in 76mm
H	1.65in 42mm	3.03in 77mm	5.5in 140mm

Modern Era

Ref.	N	HO	O
A	0.87in 22mm	1.65in 42mm	3in 76mm
B	1.34in 34mm	1.65in 62mm	4.1in 104mm
C	0.87in 22mm	1.65in 42mm	3in 76mm
H	1.73in 44mm	3.15in 80mm	5.75in 146mm

All dimensions based on published NMRA standards and recommended practice. Heights measured above rails.

Simple Baseboards

There are many different ways to build baseboards, we describe here a simple, tried and tested method, making it an ideal project for a beginner, a 4ft x 2ft unit, which could later become one of several modules.

The support frame is made from softwood, the recommended top surface is a grey insulation board made from highly compressed paper. It can be cut with a Stanley Knife instead of a saw and accepts track pins easily. It is pinned and glued to the frame, avoiding the need for C clamps.

Carpentry

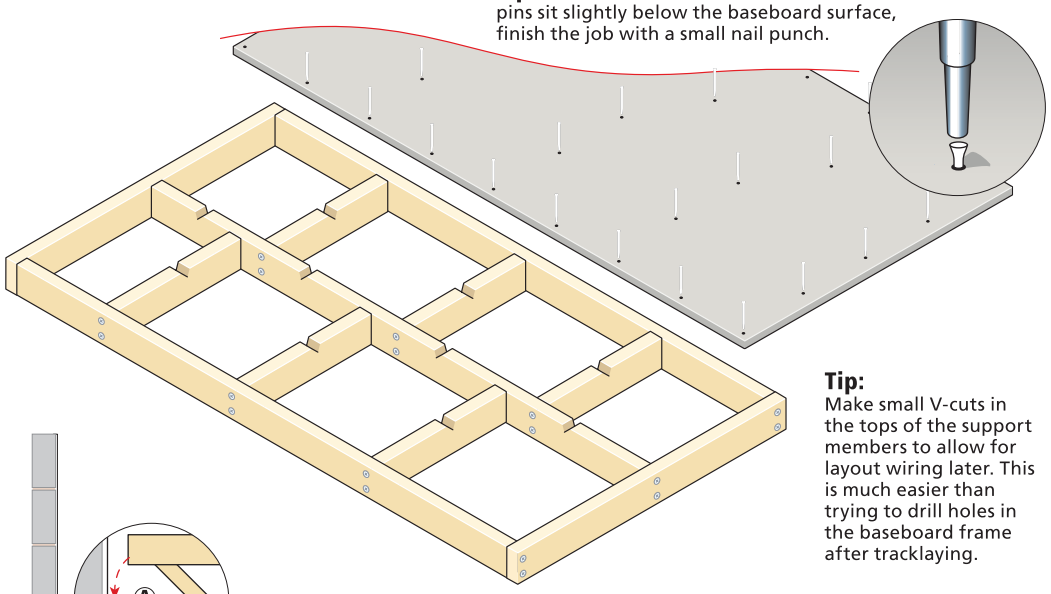
This method is designed to avoid having to cut halving joints. Note how the cross members are staggered to allow for the the screws. Those screws will be going into end grain so it's a good idea to use parallel shank 'chipboard' screws with a deep-cut thread . Although there's no actual joinery involved the wood still needs to be cut accurately for a neat result. A bench type circular saw is the ideal tool but expensive. With a hand saw a miter block will help keep all the ends nice and square.

Support structures

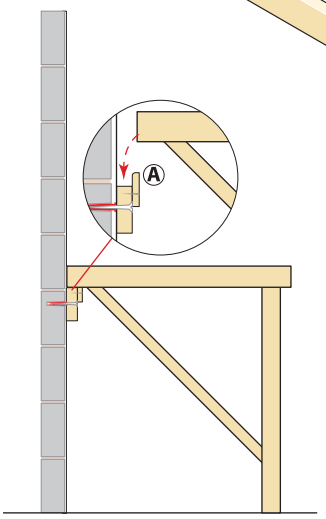
The most stable system for a permanent home layout uses the walls for support. First, fix a set of support beams to the walls, checking with a spirit level to ensure they are truly horizontal. The baseboard will sit on top of these supports, *see diagram right*.

Free standing models will need a system of legs for support. Fairly light section timber will be adequate as long as you include plenty of diagonal struts to prevent the layout swaying from side to side in use.

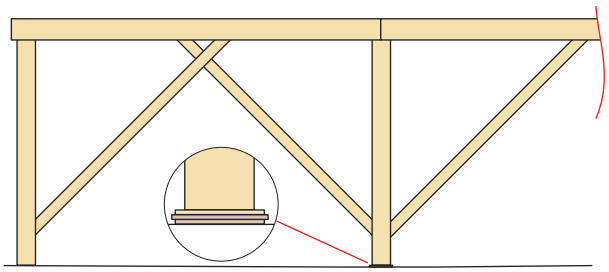
Tip: To ensure that the heads of the veneer pins sit slightly below the baseboard surface, finish the job with a small nail punch.



Tip:
Make small V-cuts in the tops of the support members to allow for layout wiring later. This is much easier than trying to drill holes in the baseboard frame after tracklaying.



The small softwood lip (**A**) at the top edge of the support beams will make mounting the baseboards easier and safer, especially if you are working alone.



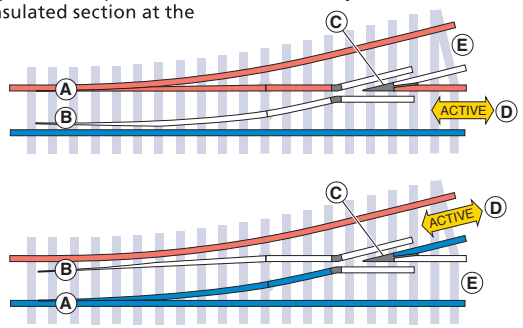
Floors are rarely completely level and there are some sophisticated levelling devices available but a small collection of shims made from offcuts of thin ply or hardboard will do fine. Cutting them into 75mm squares will make the job look neater as well as reducing the risk of tripping over them.

Insulfrogs, Electrofrogs and Unifrogs

What's the difference and does it change how I wire my layout?

Insulfrogs

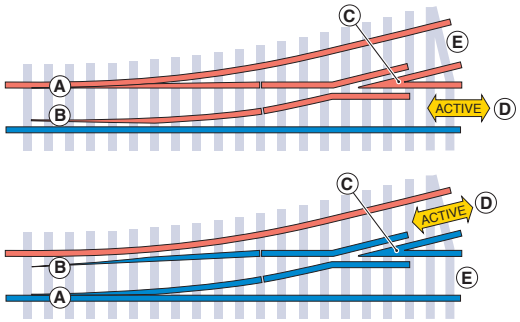
All Insulfrog turnouts are self-isolating and the point rails take their power through contact with the adjacent rail (**A**). The over-center spring keeps the two in close contact. Note that the other point rail remains unpowered (**B**). At the other end of the turnout the two frog rails are separated by a short insulated section at the tip of the frog (**C**). This simplifies wiring because with this design the frog rails do not require polarity switching. The road in use (**D**) is powered by the relevant point rail, while the road not in use (**E**) remains unpowered because the corresponding point rail is electrically dead.



Electrofrogs – Method A (the most simple)

On Electrofrog turnouts, also self-isolating, contact with the adjacent rail (**A**) powers both point rails with the same polarity. Note that the polarity of the point rails alternates according to the road set (**B**).

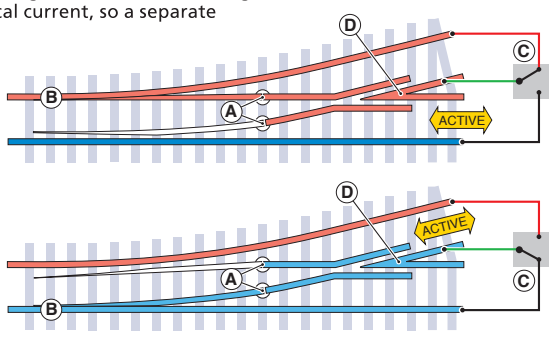
The frog rails are formed of solid nickel silver rail with no insulated section (**C**) and the polarity of this live frog is switched by the point rails. Thus the road in use (**D**) is powered, while the road not in use (**E**) remains unpowered because both rails are of the same polarity. As with Insulfrogs, this method does not need any extra switches or wiring.



Electrofrogs – Method B (a little more involved)

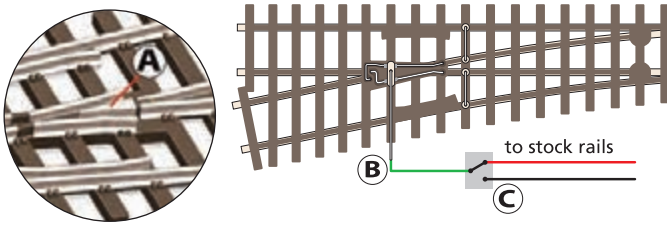
To avoid any possibility of an accidental short circuit as a wheel rolls by the back of the passive point rail, the two blades can be electrically separated from each other by simply removing a pair of jumper wires under the turnout (**A**). Each blade is fed current from its adjacent stock rail (**B**) in turn, becoming unpowered when in passive phase.

With this method the point rails are no longer involved in switching electrical current, so a separate SPDT switch (**C**) is required to change the polarity of the frog and wing rails (**D**) as the turnout is changed from one direction to another. There are a few different ways to do this, almost all involve the switch being mechanically linked to the movement of the throw bar, making the switching automatic.



Unifrogs

Unifrog trackage such as the new HOn3 Medium Radius Turnouts combine the best of both worlds. Like all other Peco Streamline turnouts they will work straight out of the box. They are supplied with all fixed rails hard-wired except for the very tip of the metal frog (**A**), which can be left unpowered. Alternatively the frog tip can be fed track current of the correct polarity through wire (**B**), already fitted, via a SPDT Accessory Switch (**C**) such as PL-13 or PL-15.



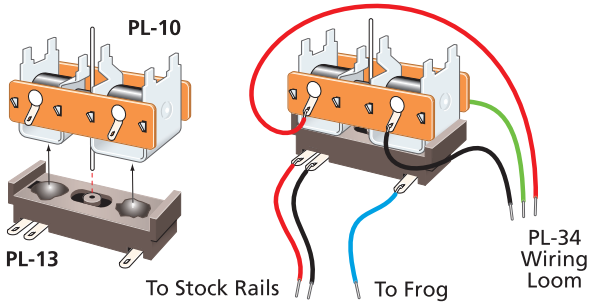
Frog Switching

Two easy methods when using PL-10 series Turnout Motors

PL-13 Accessory Switch

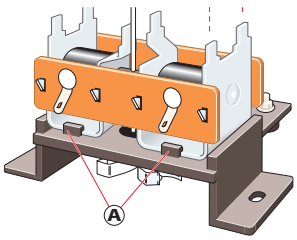
This useful and inexpensive accessory can be glued with impact adhesive directly onto the other side of a PL-10 series Turnout Motor and provides single pole changeover switching for the frog. A very neat and compact solution, particularly when the Motor is being used in 'direct drive' mode below the turnout.

It can also be used when the PL-10 is positioned above the baseboard, driving the Turnout via a PL-12X Motor Adaptor Base and Extension Arm.

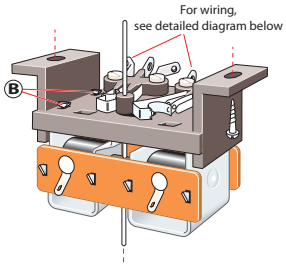


PL-15 Twin Microswitch

A more comprehensive solution, invaluable when an extra switch function is required in addition to frog polarity, such as panel light, signals, or relays for interlocking etc.

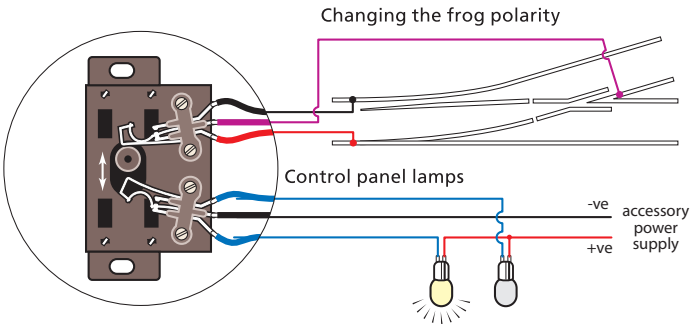


Method 1 *(left).*
Attach a PL-10 Turnout Motor directly to a Peco Turnout in the usual way and add the Microswitch to the underside, using the clips (**A**) moulded into the base.



Method 2 *(right).*
Attach a PL-10E Extended Pin Turnout Motor to the base of the microswitch using the standard 'grip and twist method' (**B**). Then using the screws provided, attach this assembly to the underside of the baseboard.

Switching the Frog and an auxiliary function simultaneously



Scales and Gauges

Scale or Gauge?

The terms scale and gauge are sometimes used indiscriminately to mean the same thing, but there are some situatons where this can lead to confusion.

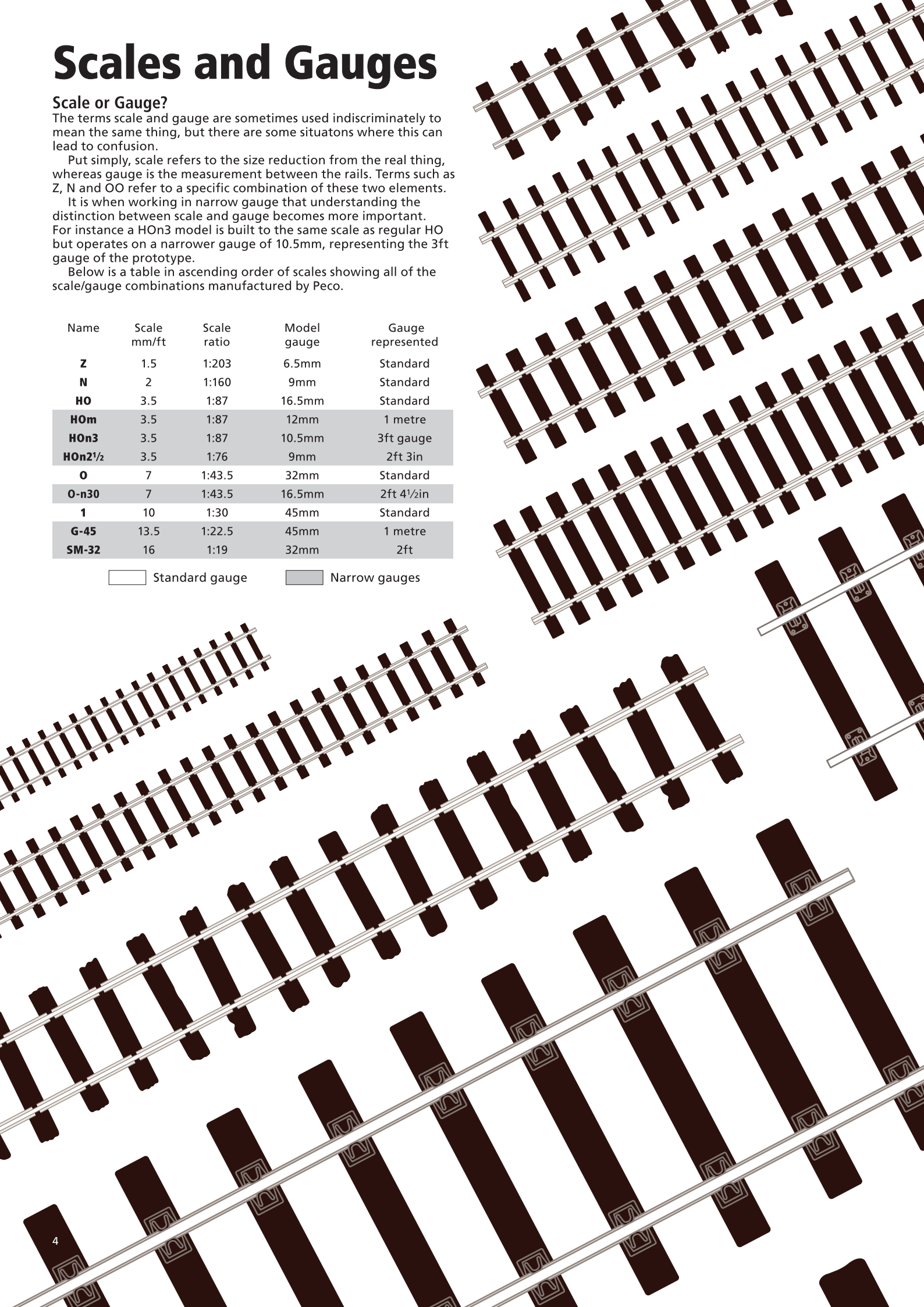
Put simply, scale refers to the size reduction from the real thing, whereas gauge is the measurement between the rails. Terms such as Z, N and OO refer to a specific combination of these two elements.

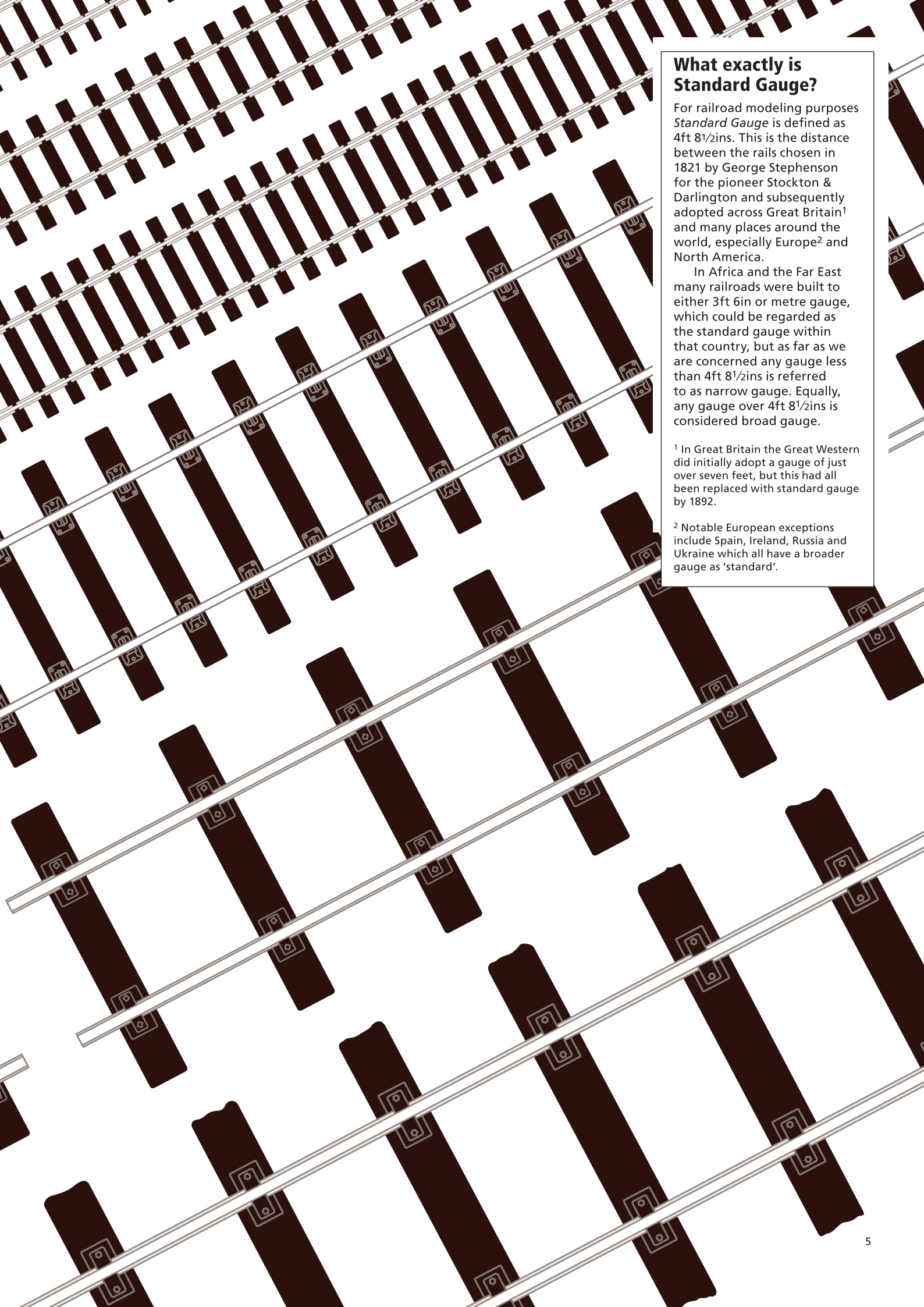
It is when working in narrow gauge that understanding the distinction between scale and gauge becomes more important. For instance a HOn3 model is built to the same scale as regular HO but operates on a narrower gauge of 10.5mm, representing the 3ft gauge of the prototype.

Below is a table in ascending order of scales showing all of the scale/gauge combinations manufactured by Peco.

Name	Scale mm/ft	Scale ratio	Model gauge	Gauge represented
Z	1.5	1:203	6.5mm	Standard
N	2	1:160	9mm	Standard
HO	3.5	1:87	16.5mm	Standard
HOm	3.5	1:87	12mm	1 metre
HOn3	3.5	1:87	10.5mm	3ft gauge
HOn2½	3.5	1:76	9mm	2ft 3in
O	7	1:43.5	32mm	Standard
O-n30	7	1:43.5	16.5mm	2ft 4½in
1	10	1:30	45mm	Standard
G-45	13.5	1:22.5	45mm	1 metre
SM-32	16	1:19	32mm	2ft

Standard gauge Narrow gauges





What exactly is Standard Gauge?

For railroad modeling purposes *Standard Gauge* is defined as 4ft 8½ins. This is the distance between the rails chosen in 1821 by George Stephenson for the pioneer Stockton & Darlington and subsequently adopted across Great Britain[1] and many places around the world, especially Europe[2] and North America.

In Africa and the Far East many railroads were built to either 3ft 6in or metre gauge, which could be regarded as the standard gauge within that country, but as far as we are concerned any gauge less than 4ft 8½ins is referred to as narrow gauge. Equally, any gauge over 4ft 8½ins is considered broad gauge.

[1] In Great Britain the Great Western did initially adopt a gauge of just over seven feet, but this had all been replaced with standard gauge by 1892.

[2] Notable European exceptions include Spain, Ireland, Russia and Ukraine which all have a broader gauge as 'standard'.

PECO Streamline OO/HO Code 83

Authentic American Track

83 Line items are realistic models of North American railroad track, with Code 83 nickel silver rail.

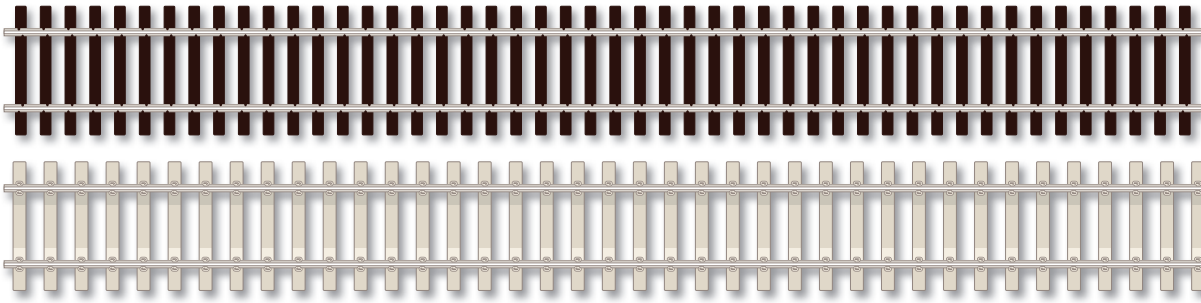
Scaled from A.R.E.A. drawings and NMRA compliant, Code 83 features authentic tie sizes and spacing, the standard American number system for frog geometry, plus a very fine scale representation of traditional rail spike fastenings.

Turnouts are available as Insulfrog or Electrofrog, whilst the 90˚ Crossing is Insulfrog only. Both the Double Slip and Diamond Crossing feature our versatile Unifrog design which can be operated, powered and switched like an Electrofrog or left unpowered if preferred.

Antony Quinlan's *Kamiak using* Peco Streamline C83. *Photo Andrew Burnham*

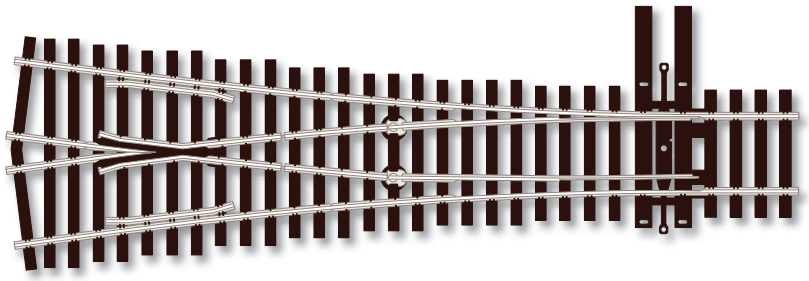
Flexible Track

SL-8300 (Wooden sleeper type)
SL-8302 (Concrete sleeper type)
Length: 914mm



#4 Wye Turnout

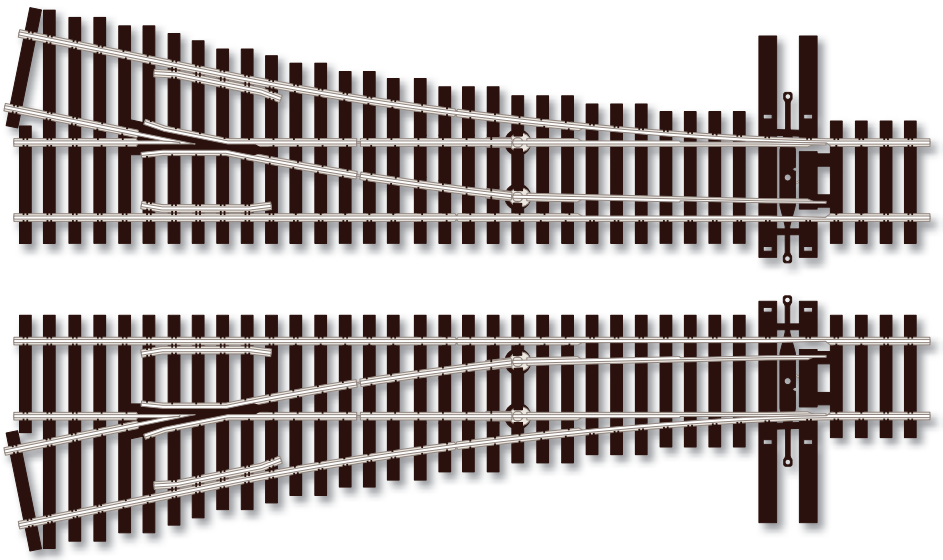
SL-8348 INSULFROG
SL-E8348 ELECTROFROG
Length: 183mm
Nominal radius: 978mm
Angle: 14.3˚

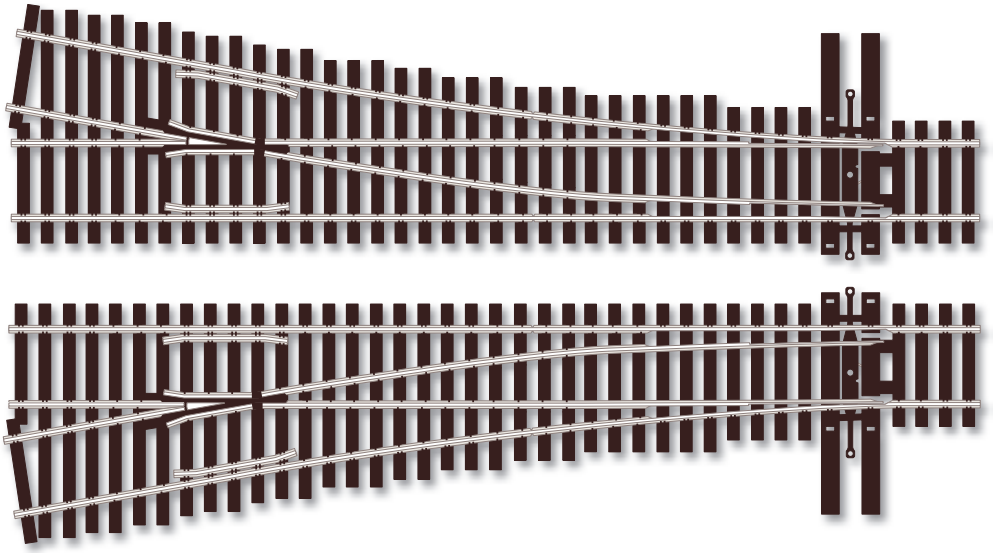


#5 Turnout

SL-8351 Right hand INSULFROG
SL-E8351 Right hand ELECTROFROG

SL-8352 Left hand INSULFROG
SL-E8352 Left hand ELECTROFROG
Length: 211mm
Nominal radius: 660mm
Angle: 11.4˚

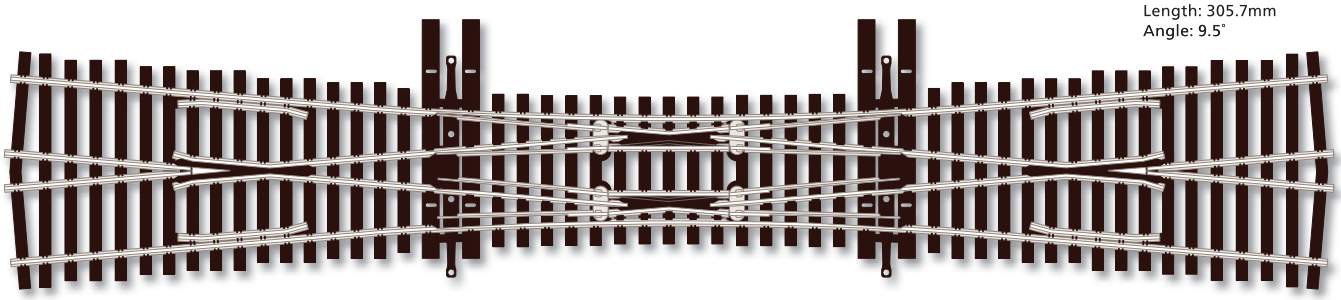




#6 Turnout

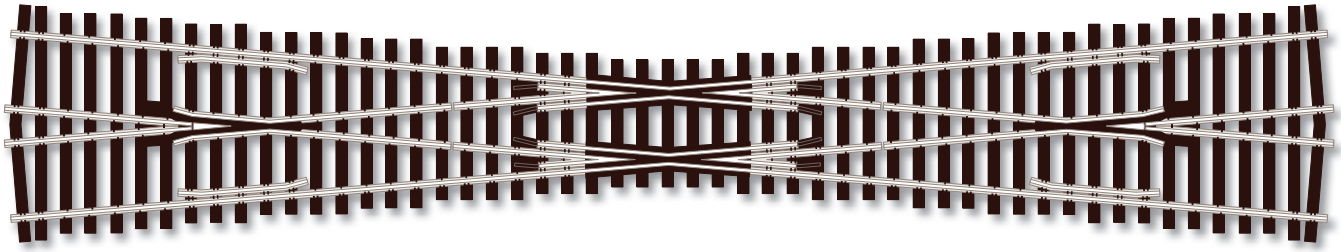
UNIFROG

SL-U8361 Right hand
SL-U8362 Left hand
Length: 233.5mm
Nominal radius: 1092mm
Angle: 9.5˚



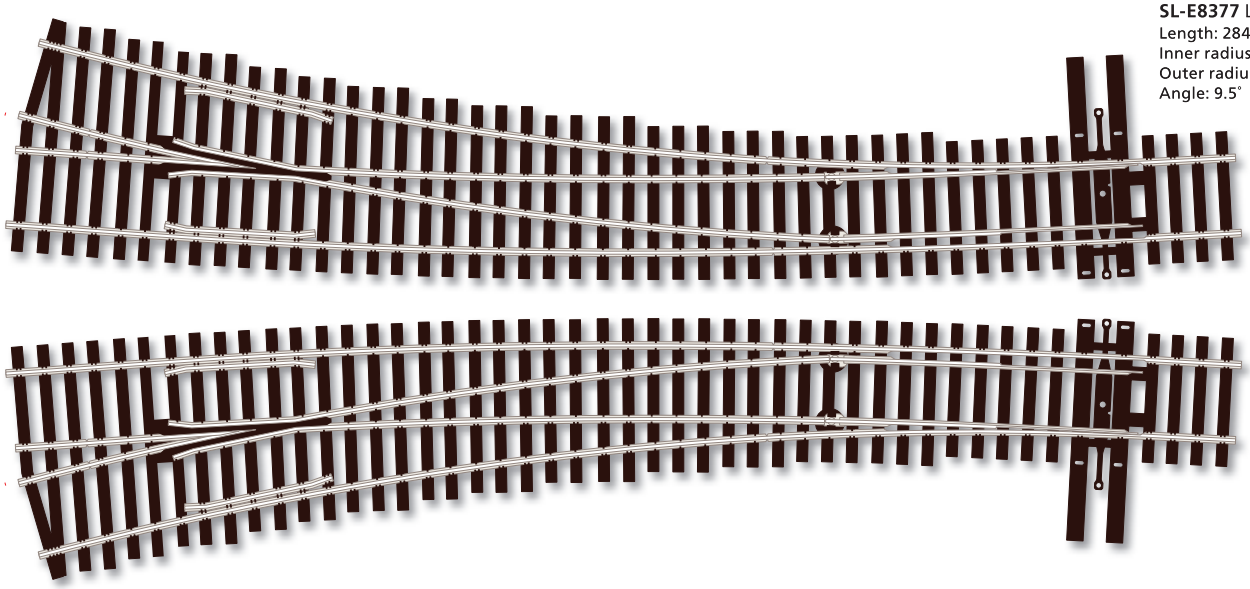
#6 Double Slip

SL-U8363 UNIFROG
Length: 305.7mm
Angle: 9.5˚



#6 Diamond Crossing

SL-U8364 UNIFROG
Length: 305.7mm
Angle: 9.5˚



#7 Curved Turnout

SL-8376 Right hand INSULFROG
SL-E8376 Right hand ELECTROFROG

SL-8377 Left hand INSULFROG
SL-E8377 Left hand ELECTROFROG
Length: 284.1mm
Inner radius: 914mm
Outer radius: 1524mm
Angle: 9.5˚

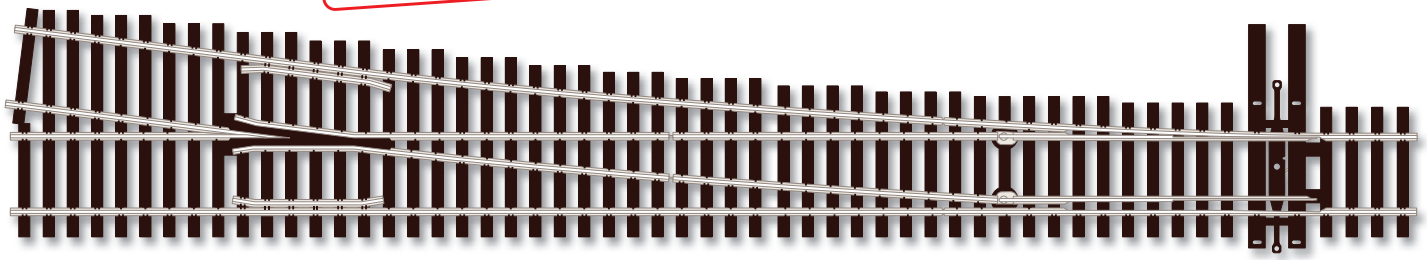
PECO Streamline HO Code 83 *continued*

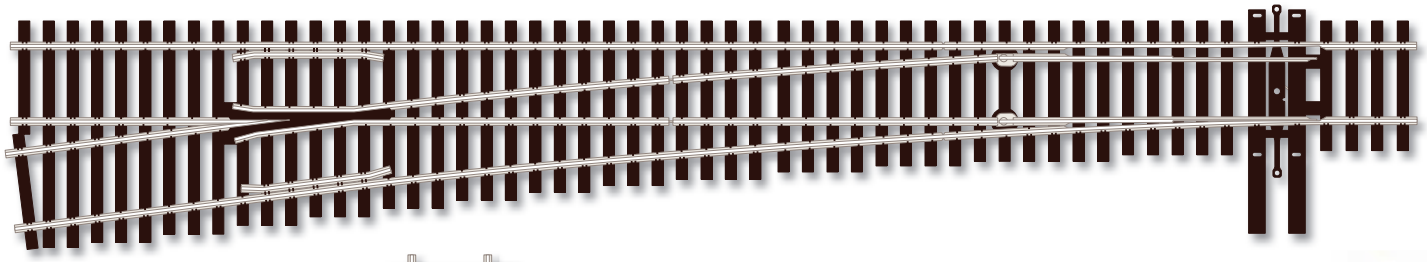
#8 Turnout

SL-8381 Right hand INSULFROG
SL-E8381 Right hand ELECTROFROG

SL-8382 Left hand INSULFROG
SL-E8382 Left hand ELECTROFROG
Length: 322mm
Nominal radius: 1702mm
Angle: 7.15°

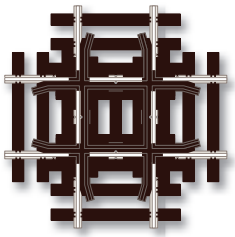
Unifrog in development





#90° Crossing

SL-8390 INSULFROG
Length: 50.8mm
Angle 90°



Hayes Bumper

SL-8340 Typical American style buffer stop with central buffing plate. Clips between rails.

SL-8340

Inspection Pit

SL-8356 Modular design makes it easy to assemble pits of any length. Six pit mouldings, two pairs of steps and four 165mm long rails.

SL-8356
A hole in the baseboard 14mm wide x 9mm deep is required.

Rail Joiners

SL-110 Nickel Silver, 24 per pack.
SL-111 Insulating, 12 per pack.

Track Fixing Pins

SL-14 Chemically blackened mild steel for unobtrusively pinning down trackwork, 14mm long.

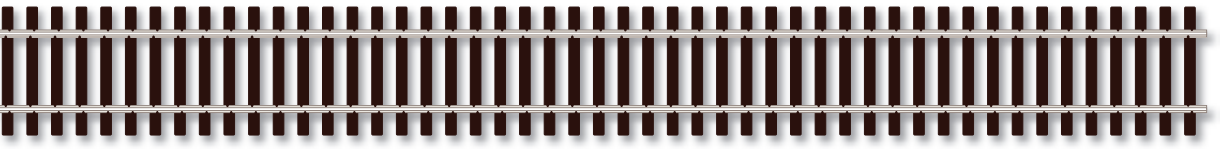
SL-14

PECO Streamline HO Code 70

Authentic American Track

Look for the distinctive logo and orange packaging at your favorite hobby store.

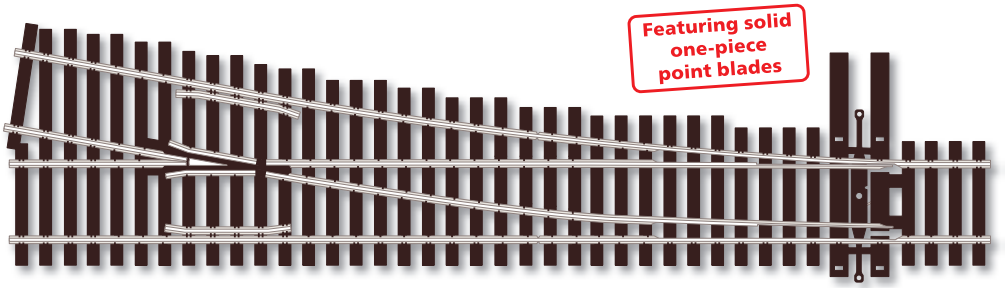
The new Code 70 track items are realistic models of North American railroad track, with a nickel silver rail height of 0.70". Typically used to model American railroad yards and branch lines, like 83 Line, the track dimensions are accurately based on A.R.E.A. designs, and produced to be compliant with NMRA technical specifications.

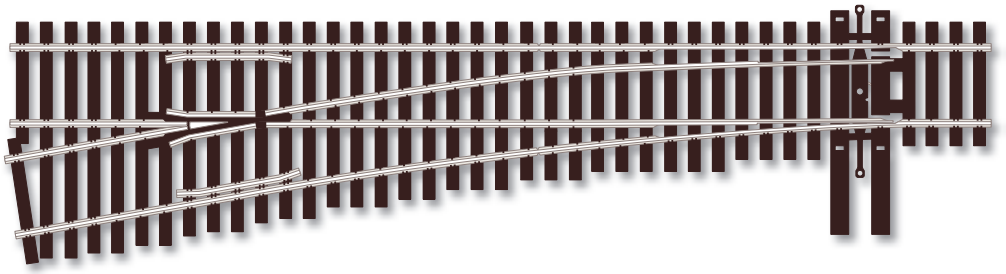


Flexible Track
SL-7000 (Wooden sleeper type)
Length: 914mm

#6 Turnout
SL-U7061 Right hand UNIFROG
Length: 223.5mm
Nominal Radius: 1092mm
Angle: 9.5˚

#6 Turnout
SL-U7062 Left hand UNIFROG
Length: 223.5mm
Angle: 9.5˚





In development — due 2022/2023

#8 Turnout
SL-U7081 Right hand
Length: 322mm UNIFROG
Nominal Radius: 1702mm
Angle: 7.15˚

SL-U7082 Left hand
Length: 322mm UNIFROG
Nominal Radius: 1702mm
Angle: 7.15˚

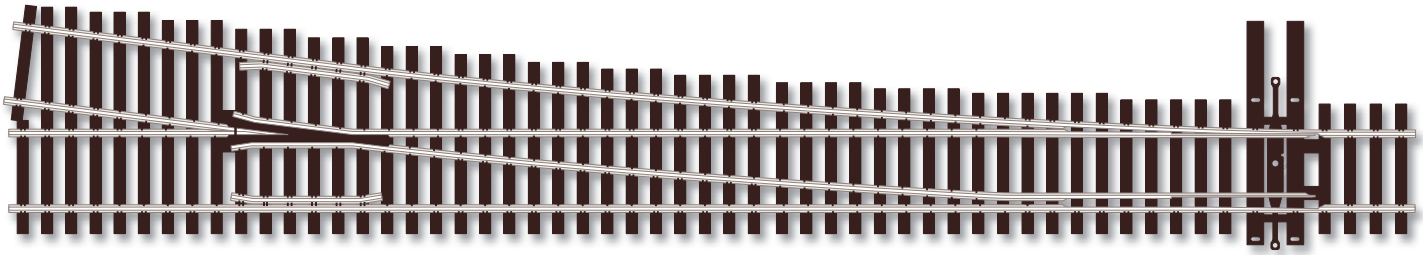
SL-116 Transition Track
Code 83 to Code 100, 4 per pack.

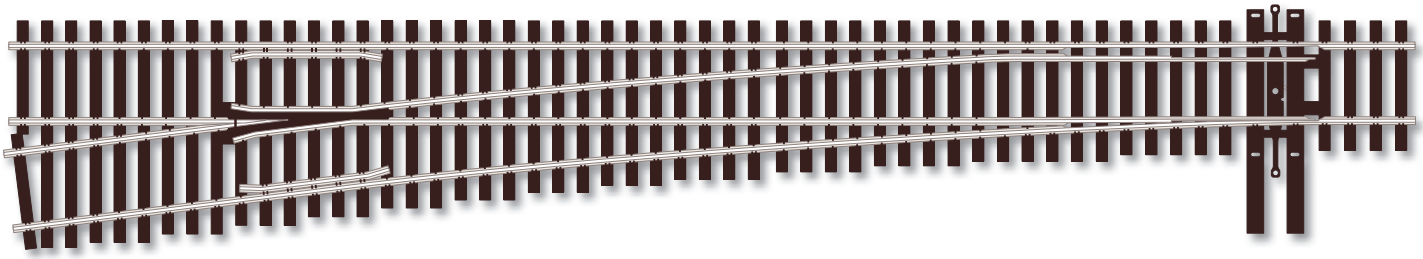
SL-116

SL-115

Now available

SL-115 Transition Track
Code 83 to Code 70, 4 per pack.





PECO Streamline HO Code 100

Universal trackage system

If you wish to mix wheel standards on your OO/HO layout, this is the trackage to choose. Code 100 rail allows flange depths up to 1.6mm which means that both vintage and current rolling stock will run happily together.

The wide range of turnouts and crossings in this series includes every type – from catch points to the delightfully complex looking double slips.

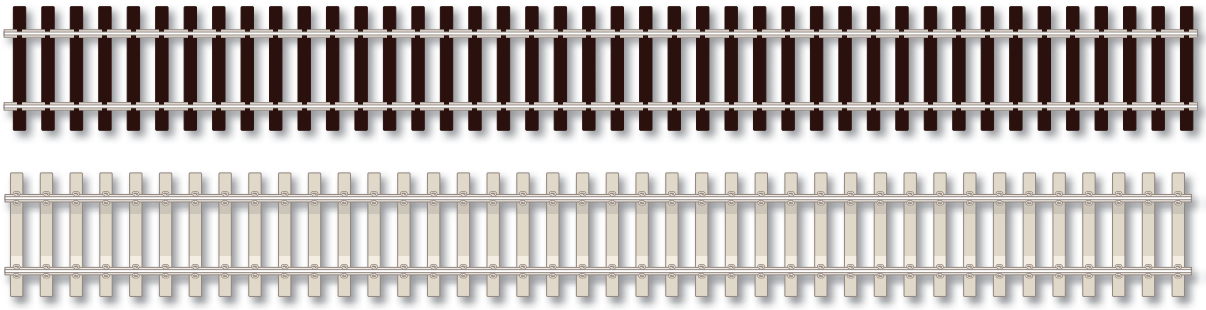
Since Code 100 Streamline has the same rail profile as Setrack, you can enlarge and develop a Setrack layout with Streamline without having to discard any of your existing trackwork.

Flexible Track

SL-100
(Wooden sleeper type)

SL-102
(Concrete sleeper type)

Length: 914mm



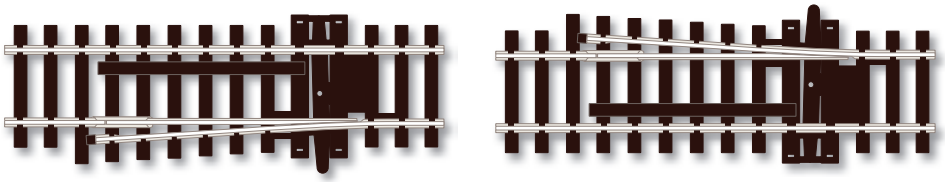
Catch Point

INSULFROG

SL-84 Right hand

SL-85 Left hand

Length: 98mm



Small Radius Turnout

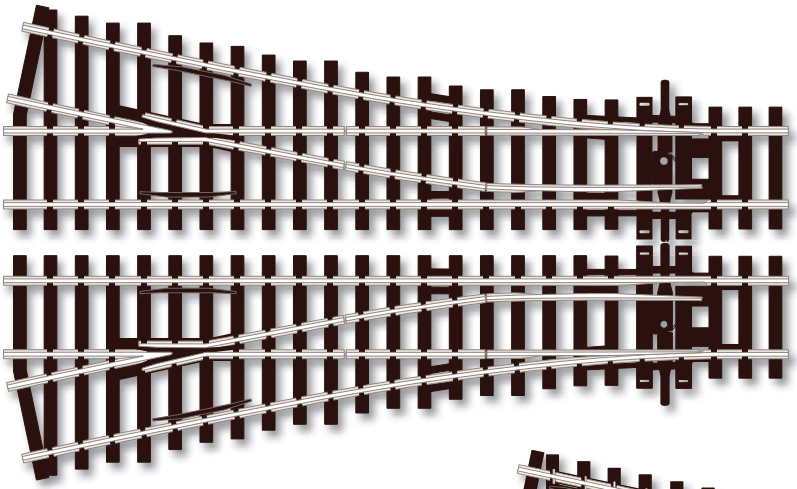
SL-91 Right hand
INSULFROG

SL-E91 Right hand
ELECTROFROG

SL-92 Left hand
INSULFROG

SL-E92 Left hand
ELECTROFROG

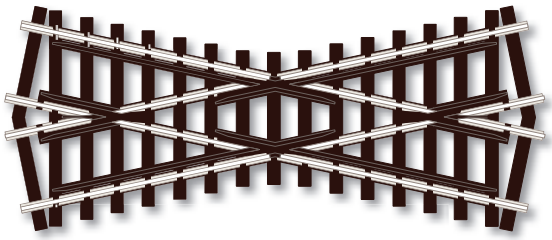
Length: 185mm
Radius: 610mm
Angle: 12°



Short Crossing

SL-93 INSULFROG

Length: 127mm
Angle: 24°



Medium Radius Turnout

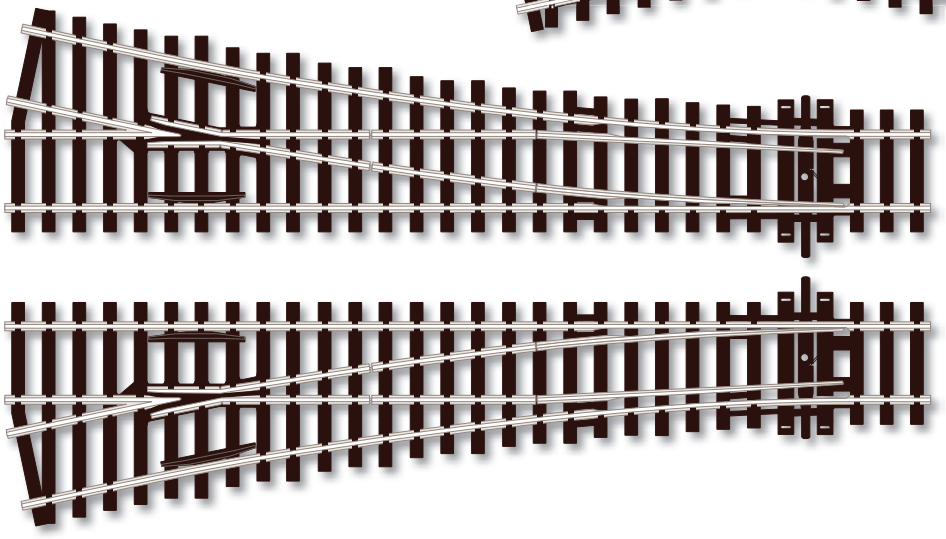
SL-95 Right hand
INSULFROG

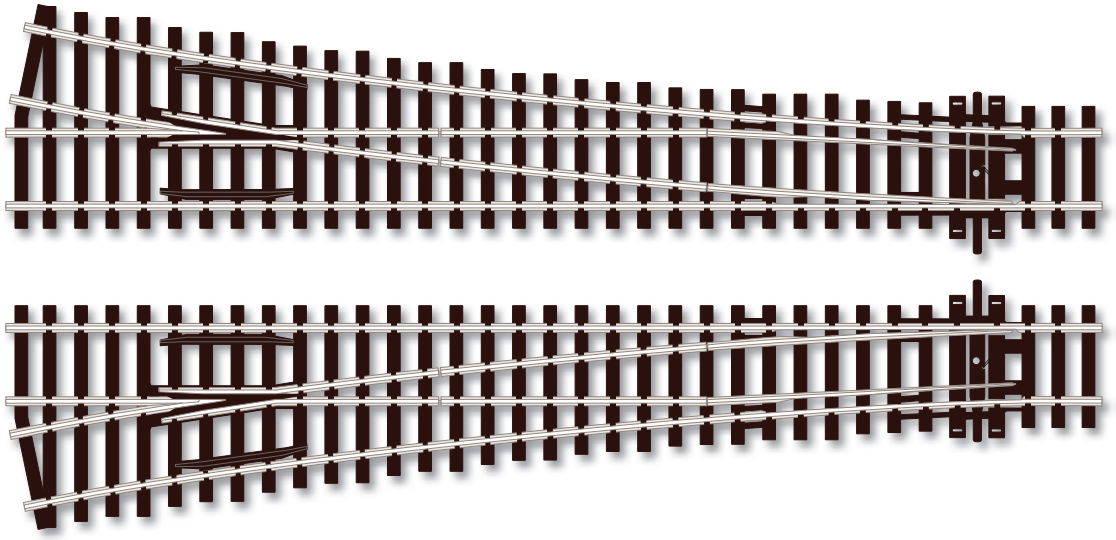
SL-E95 Right hand
ELECTROFROG

SL-96 Left hand
INSULFROG

SL-E96 Left hand
ELECTROFROG

Length: 219mm
Radius: 914mm
Angle: 12°



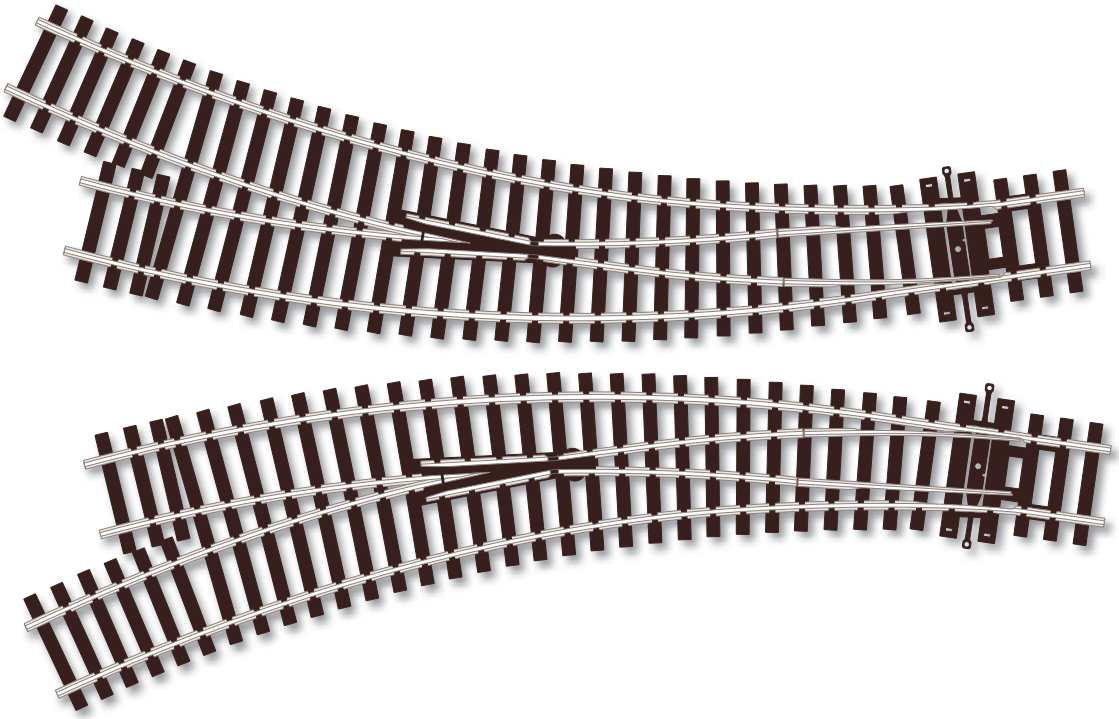


Large Radius Turnout

SL-88 Right hand
INSULFROG
SL-E88 Right hand
ELECTROFROG

SL-89 Left hand
INSULFROG
SL-E89 Left hand
ELECTROFROG

Length: 259mm
Radius: 1524mm
Angle: 12˚

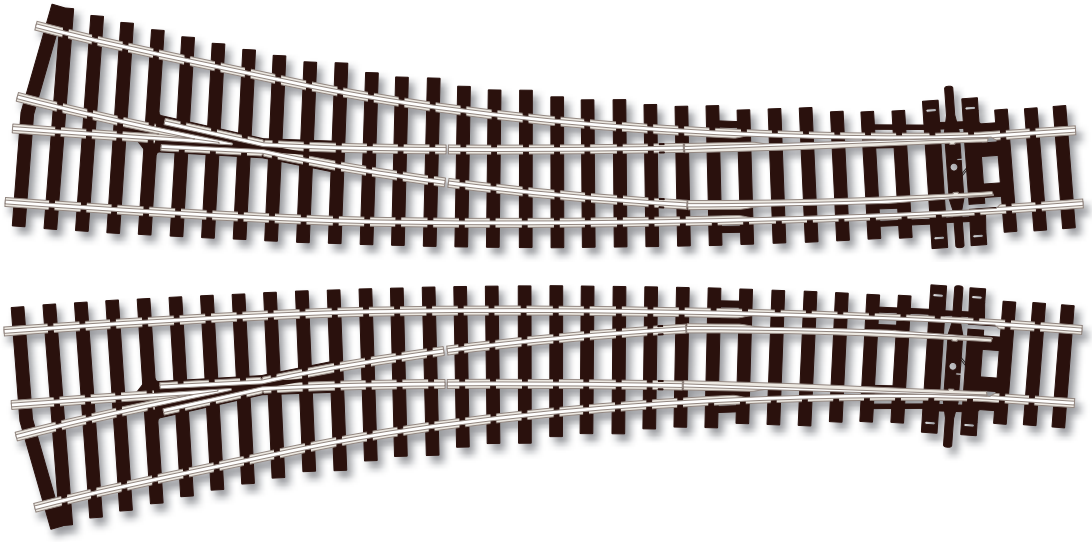


In development

Curved Small Radius Turnout

SL-U76 UNIFROG
SL-U77 UNIFROG

Length: 168mm
Radii of inner and outer curves: 438mm
Angle: 11.25°



Curved Turnout

SL-86 Right hand
INSULFROG
SL-E86 Right hand
ELECTROFROG

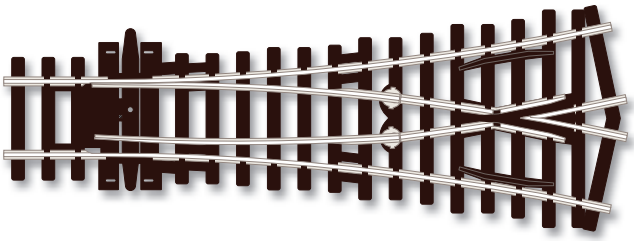
SL-87 Left hand
INSULFROG
SL-E87 Left hand
ELECTROFROG

Length: 258mm
Radii: 1524 & 762mm
Angle of curve: inner 20.5, outer 9.5°

Small Radius Y Turnout

SL-97
INSULFROG
SL-E97
ELECTROFROG

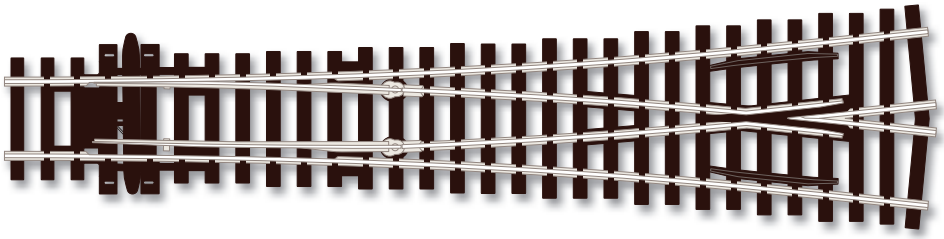
Length: 148mm
Radius: 610mm
Angle: 24˚



Large Radius Y Turnout

SL-98
INSULFROG
SL-E98
ELECTROFROG

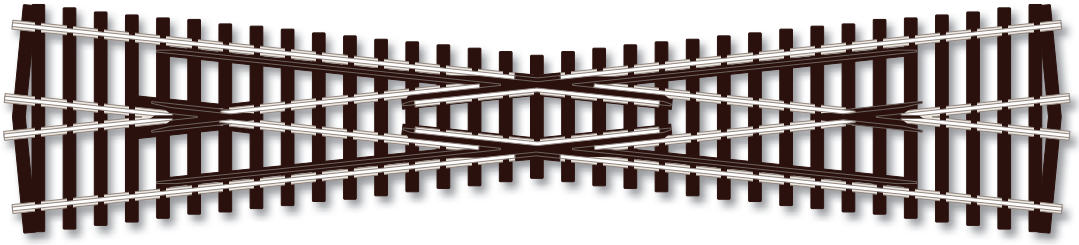
Length: 220mm
Radius: 1828mm
Angle: 12˚



Long Crossing

SL-94 INSULFROG

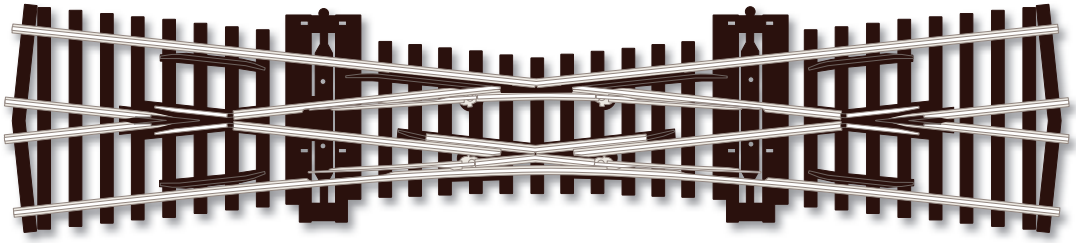
Length: 249mm
Angle: 12˚



Single Slip

SL-80 INSULFROG

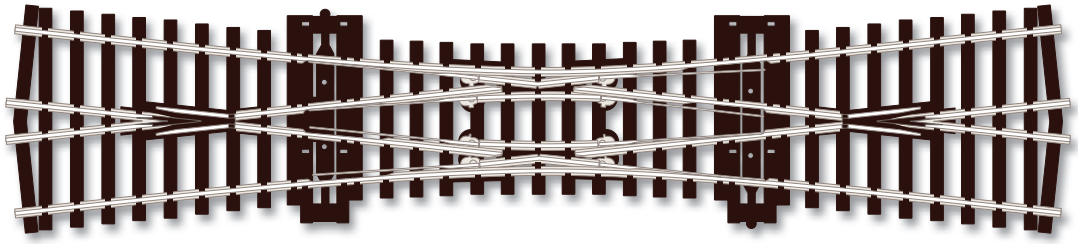
Length: 249mm
Angle: 12˚



Double Slip

SL-90 INSULFROG

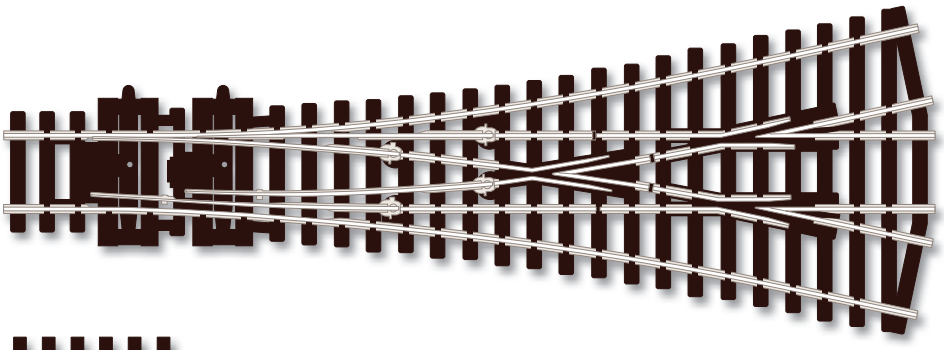
Length: 249mm
Angle: 12˚



3 Way Turnout

SL-99 Right hand
INSULFROG
SL-E99 Right hand
ELECTROFROG

Length: 220mm
Radii: 610mm
Angle: 12˚



Transition Track

SL-113
For use between sections of Code 100 and Code 75 track.
4 per pack.

Rail Joiners

SL-10 Nickel Silver.
24 per pack.

SL-11 Insulating.
24 per pack.

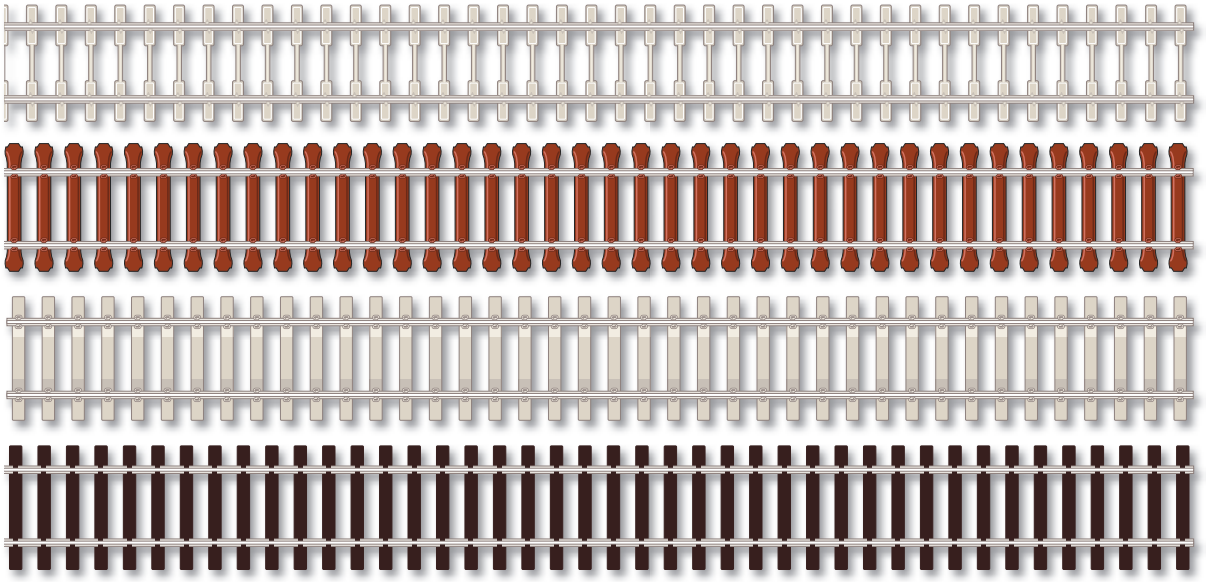
PECO Streamline OO/HO Code 75

The Fine trackage system

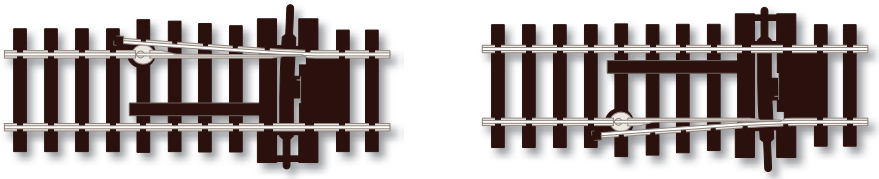
Peco Streamline Code 75 track meets the demands of enthusiasts who prefer to run trains on scale height rail. Code 75 rail allows flange depths up to 1.143mm.

These days most manufacturers' wheels are suitable for use on Code 75 track but some vintage models may have wheels with flanges which are too deep to clear the rail fixings.

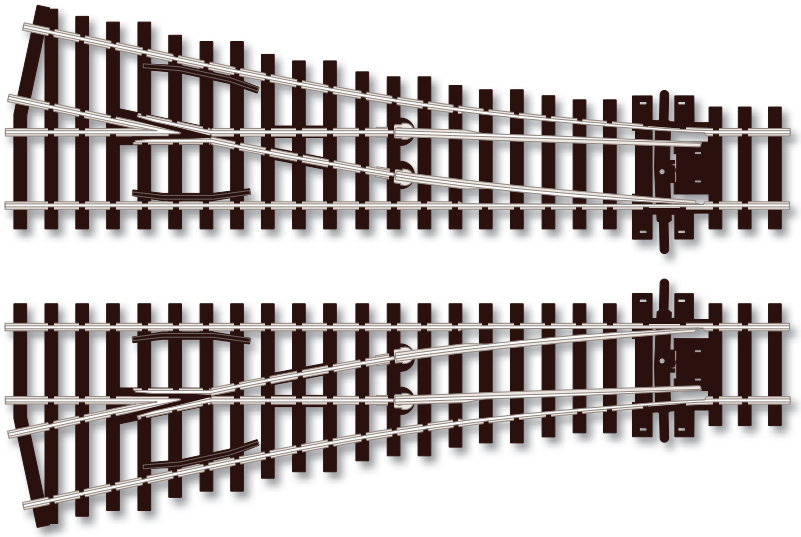
The correct back to back dimension (14.2mm –14.5mm) is important too, but if you don't want to be bothered with the math, the simplest way to check is to test run one of your models through a sample turnout before building a whole layout in Code 75. It can be joined to Code 100 using the SL-113 Transition Track.



Flexible Track
SL-100F (Wooden sleeper type)
SL-102F (Concrete sleeper type)
SL-104F (Steel sleeper type)
SL-106F (Concrete Bi-bloc type)
Length: 914mm



Catch Point
INSULFROG
SL-184 Right hand
SL-185 Left hand
Length: 91mm



Small Radius Turnout
ELECTROFROG
SL-E191 Right hand
SL-E192 Left hand
Length: 185mm
Radius: 610mm
Angle: 12°

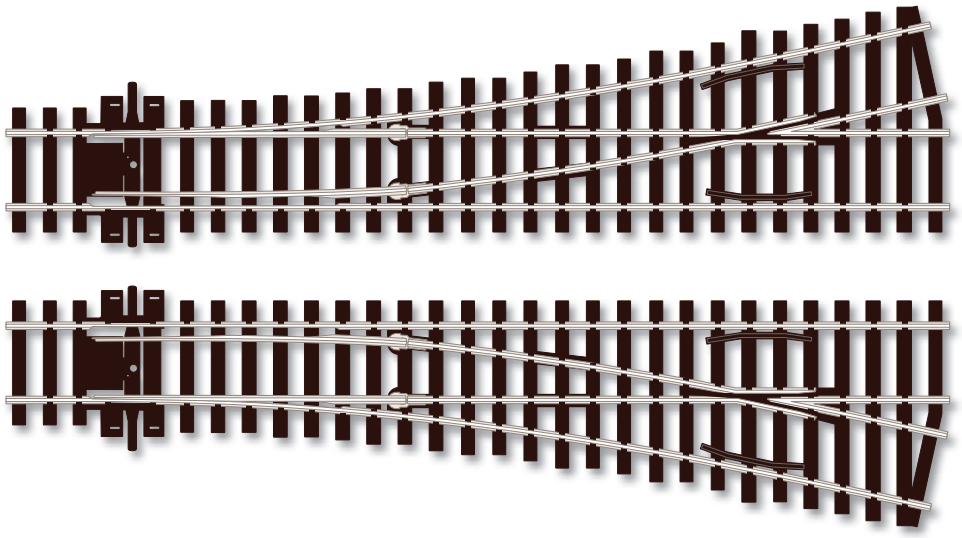
Medium Radius Turnout

ELECTROFROG

SL-E195 Right hand

SL-E196 Left hand

Length: 219mm
Radius: 914mm
Angle: 12˚



Medium Radius Turnout

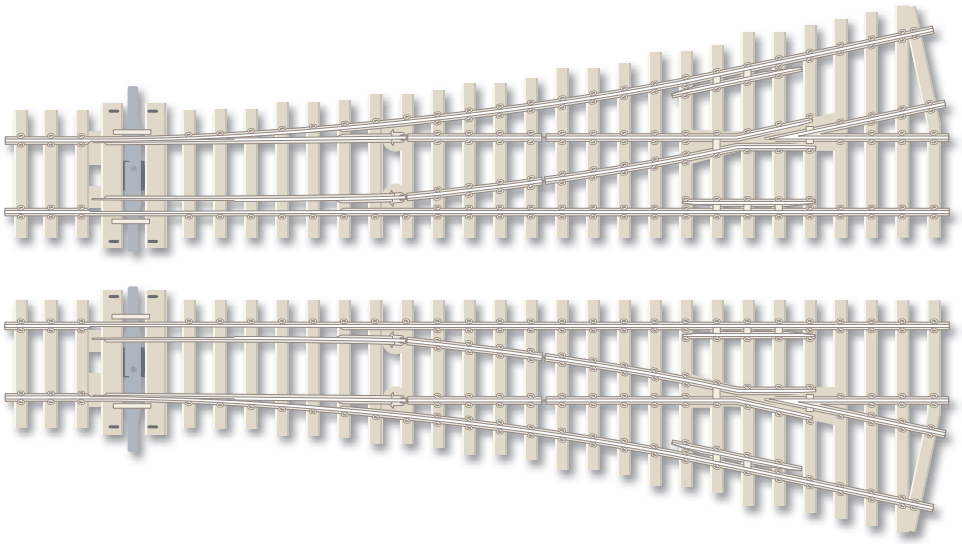
with concrete style sleepers

ELECTROFROG

SL-E1095 Right hand

SL-E1096 Left hand

Length: 219mm
Radius: 914mm
Angle: 12˚



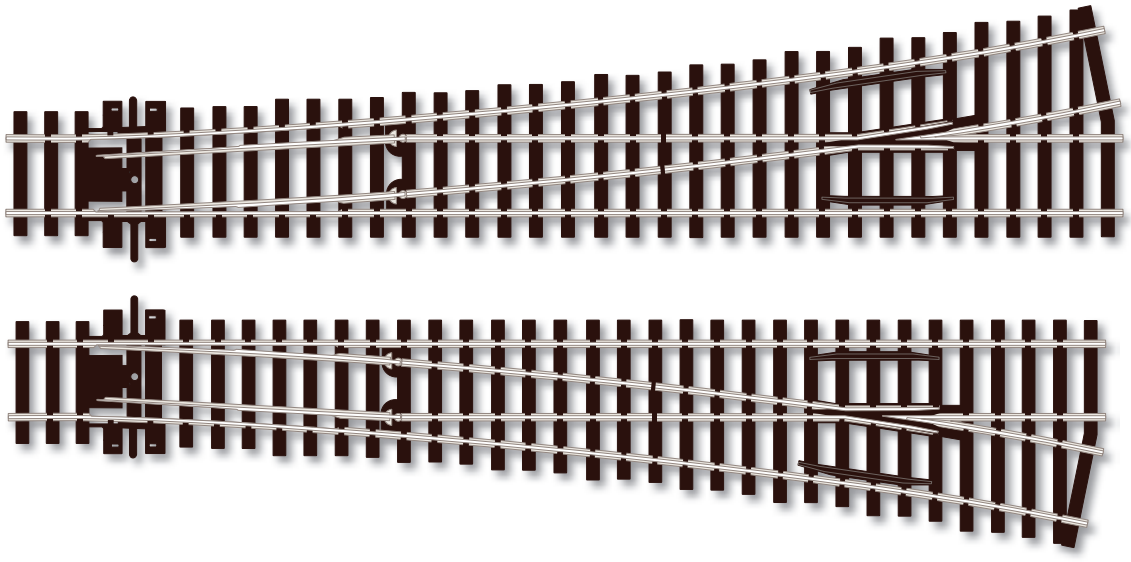
Large Radius Turnout

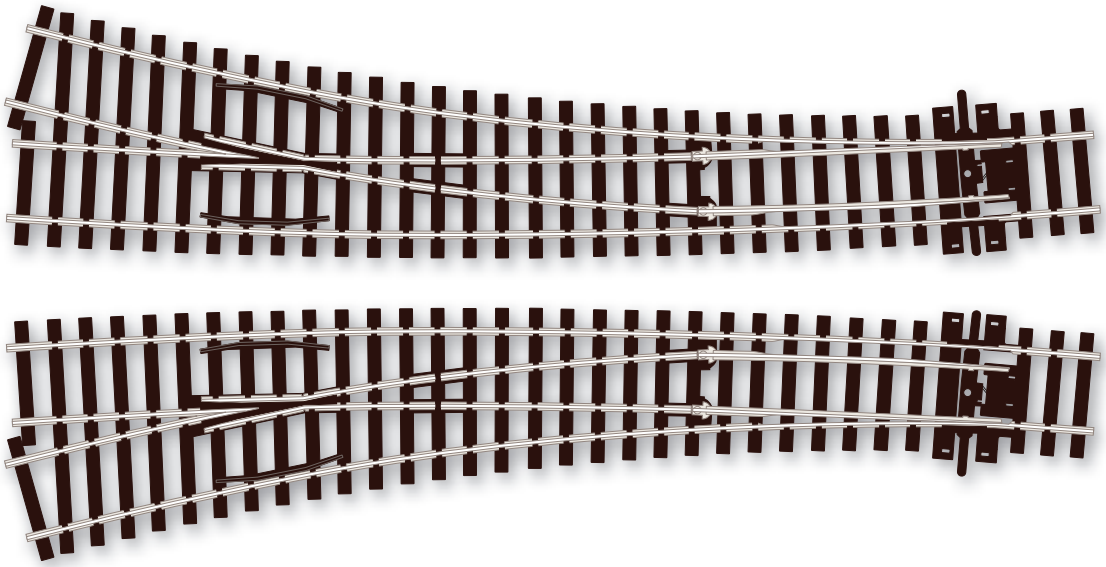
ELECTROFROG

SL-E188 Right hand

SL-E189 Left hand

Length: 259mm
Radius: 1524mm
Angle: 12˚





Curved Turnout

ELECTROFROG

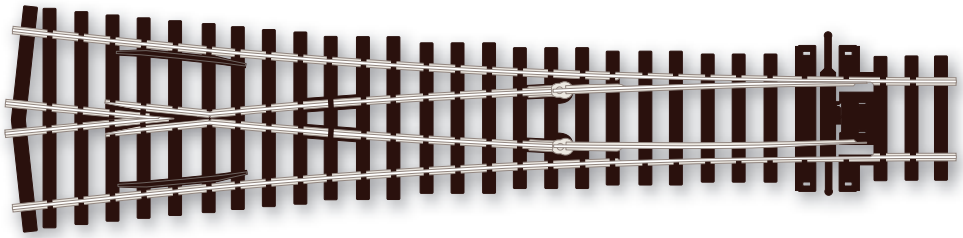
SL-E186 Right hand

SL-E187 Left hand

Length: 258mm

Radii: 1524 & 762mm

Angle of curve: inner 20.5, outer 9.5°



Large Radius Y Turnout

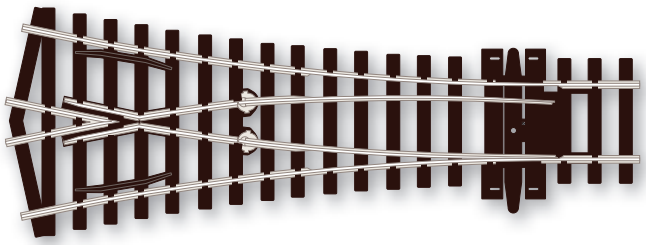
ELECTROFROG

SL-E198

Length: 220mm

Radius: 1829mm

Angle: 12°



Small Radius Y Turnout

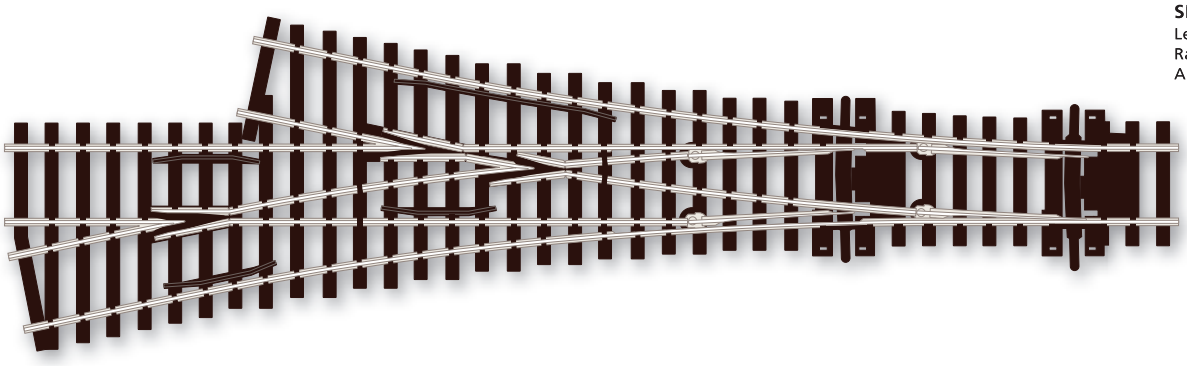
ELECTROFROG

SL-E197

Length: 148mm

Radius: 610mm

Angle: 24°



Asymmetric 3 Way Turnout

ELECTROFROG

SL-E199

Length: 273mm

Radius: 914mm

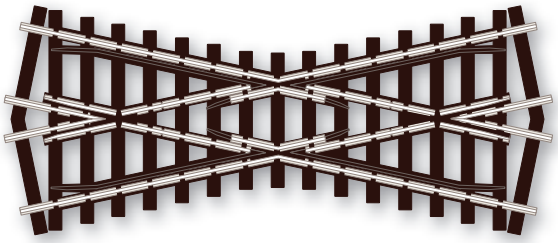
Angle: 12°

PECO Streamline OO/HO Code 75

continued

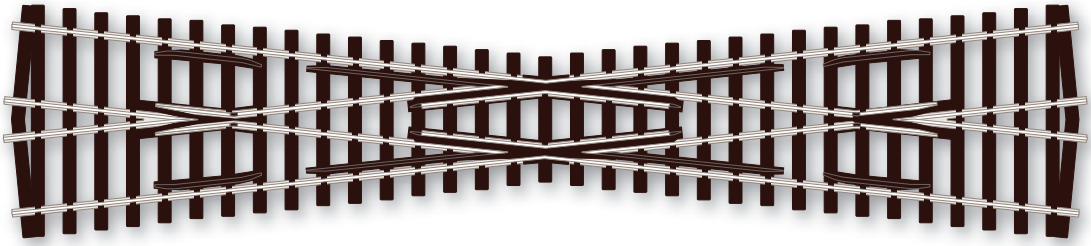
Short Crossing

SL-193
INSULFROG
SL-E193
ELECTROFROG
Length: 127mm
Angle: 24˚



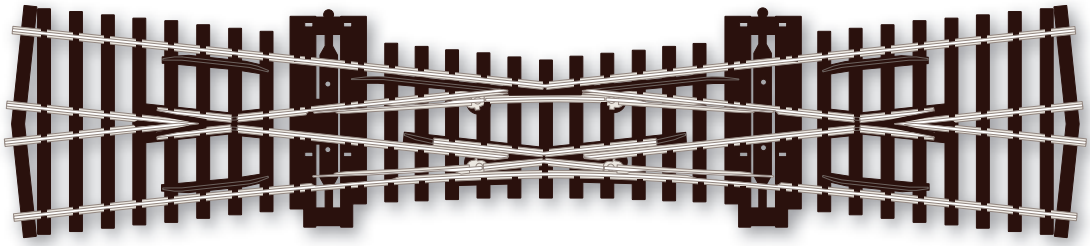
Long Crossing

SL-194
INSULFROG
SL-E194
ELECTROFROG
Length: 249mm
Angle: 12˚



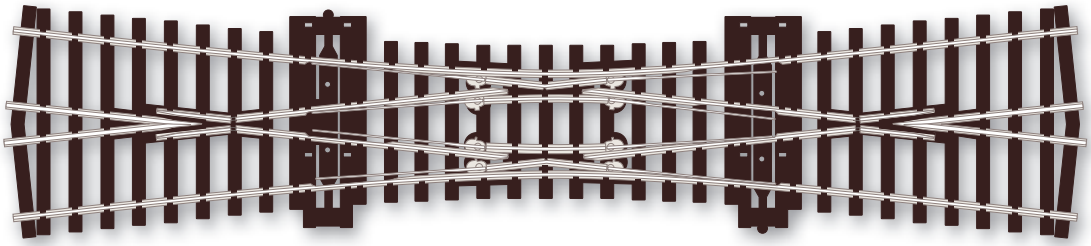
Single Slip

SL-180
INSULFROG
SL-E180
ELECTROFROG
Length: 249mm
Angle: 12˚



Double Slip

SL-190
INSULFROG
SL-E190
ELECTROFROG
Length: 249mm
Angle: 12˚



Transition Track

SL-113
For use between sections of Code 100 and Code 75 track, 4 per pack.

Rail Joiners

SL-110 Nickel Silver, 24 per pack.

SL-111 Insulating, 12 per pack.

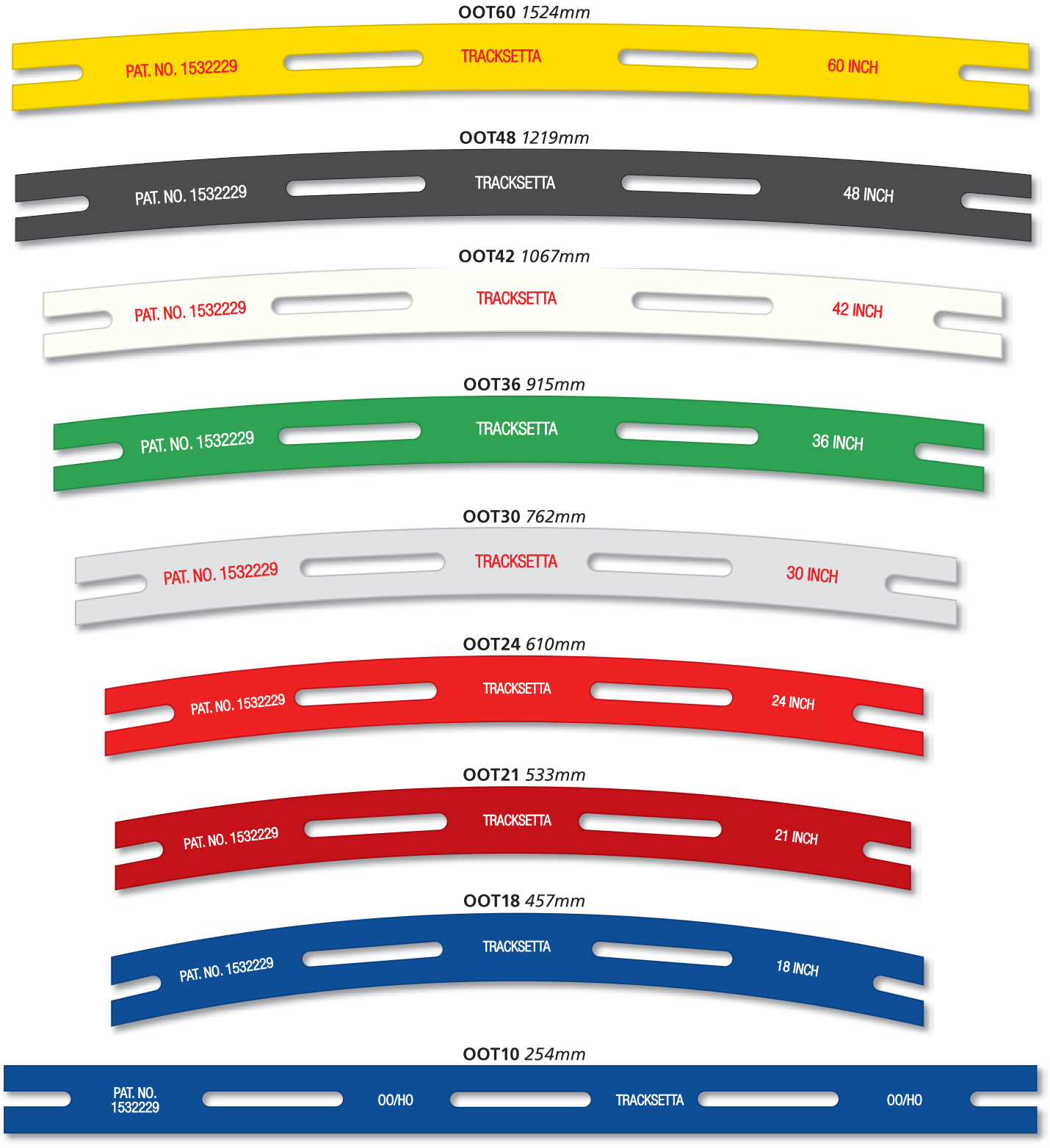
Tracksetta®

Templates for laying OO/HO* flexible track

– because getting it right is easier than putting it right

With Tracksetta® you can make sure your straights are really straight and your curves are smooth without any kinks or sudden changes of direction which make derailments inevitable. By combining different radii, transition curves can be achieved quickly and easily.

These simple but effective tools are a worthwhile investment since well laid track is essential for reliable running. The care and attention you pay at this stage will determine whether running trains on your railroad is to be a pleasure or a source of frustration.



**Suitable also for 0-16.5 track. For details of Tracksetta for N Gauge & OO-9 see page 30.*

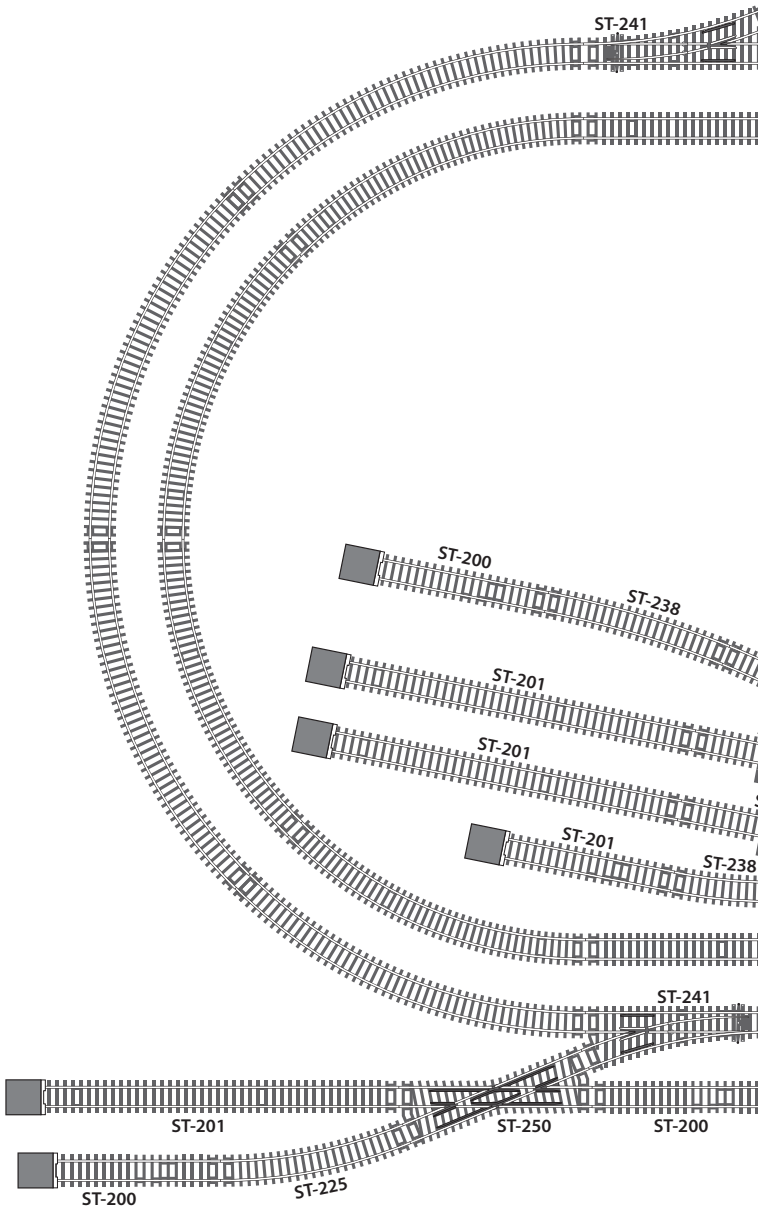
PECO Setrack
HO Code 100
Unit trackage system

The ideal way to build your first HO layout.

Peco Setrack is a high quality rigid track system of straights and curves, together with turnouts and crossings which can be used together to build model railroads quickly and easily. Layouts built with Setrack can be taken apart and re-designed at will, making the system ideal for newcomers who want to experiment with different ideas. Nothing is wasted since items can be recycled from one layout to the next.

Setrack is designed to the British Standard Geometry which includes curves of four different radii, giving plenty of options for multiple track lines, particularly useful at approaches to busy main line stations.

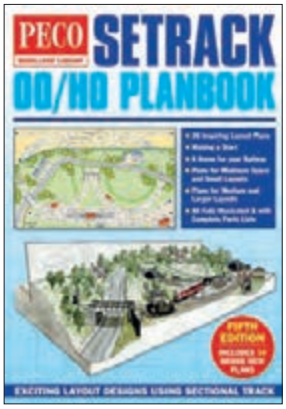
And if you do decide later to build a permanent layout using Streamline flexible track, your Setrack items can still be incorporated, as they are entirely compatible.



Peco HO Setrack Starter Sets

These Starter Sets make ideal gifts and contain in one attractive box all the necessary track components needed to build your first layout, comprising an oval of track and a couple of sidings.

The OO/HO Setrack Planbook *(see next page)* is included in each set explaining how the Setrack system goes together as well as many plans to inspire you.



ST-100 HO Setrack Starter Set

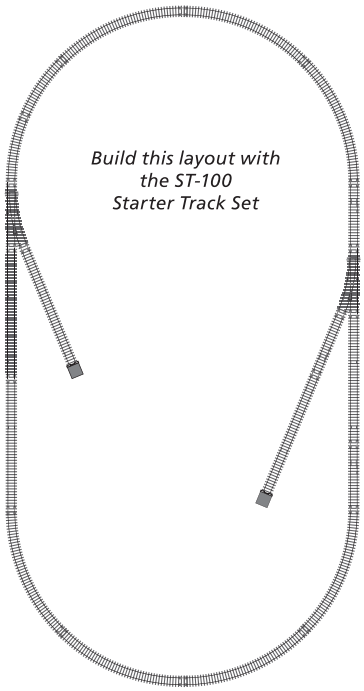
Contents

3 x Standard Straight *(ST-200)*
5 x Double Straight *(ST-201)*
1 x Short Straight *(ST-202)*
3 x No.2 Rad. Std. Curves *(ST-225)*
7 x No.2 Rad. Dble. Curves *(ST-226)*
1 x Right Hand Turnout *(ST-240)*
1 x Left Hand Turnout *(ST-241)*
2 x Bumper *(ST-270)*
1 x Pr. Connecting Clips *(ST-273)*
1 x Planbook *(STP-00)*

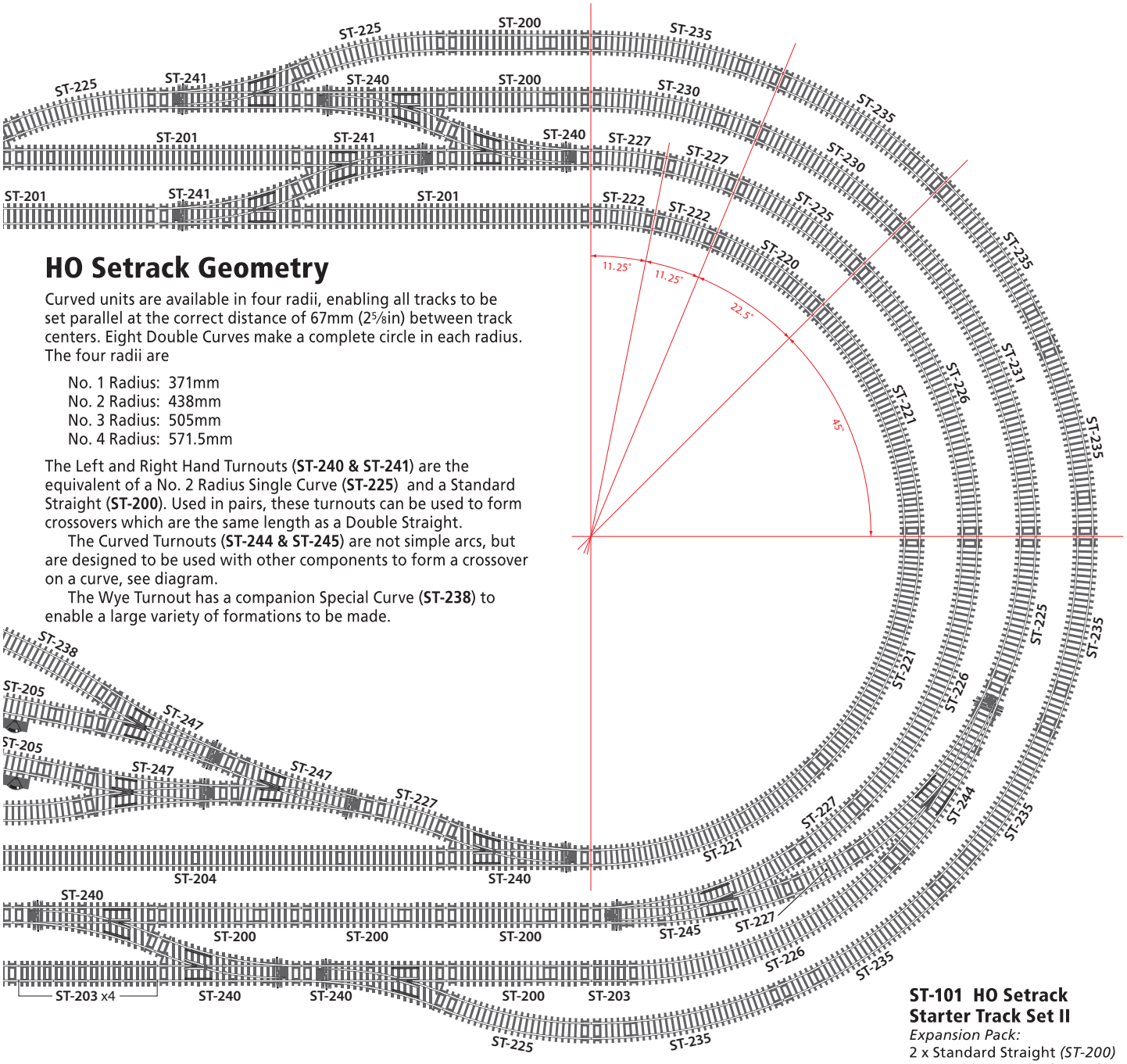
Minimum space required: 1626mm x 991mm (5' 4" x 3' 3")

All Setrack items available separately, see next page.

***STP-00** Planbook also available separately.*



Build this layout with the ST-100 Starter Track Set



HO Setrack Geometry

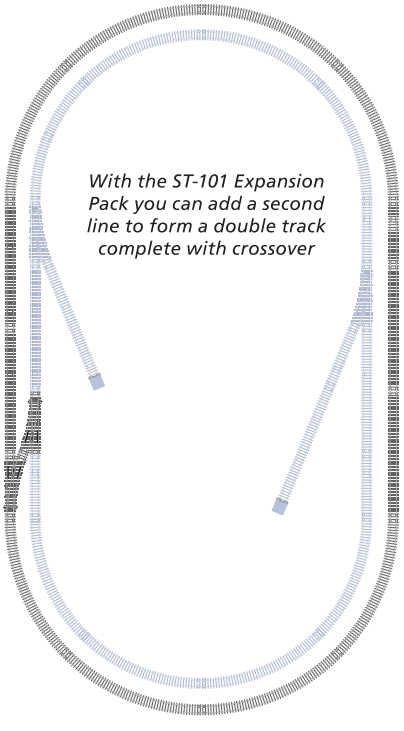
Curved units are available in four radii, enabling all tracks to be set parallel at the correct distance of 67mm (2⅝in) between track centers. Eight Double Curves make a complete circle in each radius. The four radii are

No. 1 Radius: 371mm
No. 2 Radius: 438mm
No. 3 Radius: 505mm
No. 4 Radius: 571.5mm

The Left and Right Hand Turnouts (**ST-240 & ST-241**) are the equivalent of a No. 2 Radius Single Curve (**ST-225**) and a Standard Straight (**ST-200**). Used in pairs, these turnouts can be used to form crossovers which are the same length as a Double Straight.

The Curved Turnouts (**ST-244 & ST-245**) are not simple arcs, but are designed to be used with other components to form a crossover on a curve, see diagram.

The Wye Turnout has a companion Special Curve (**ST-238**) to enable a large variety of formations to be made.



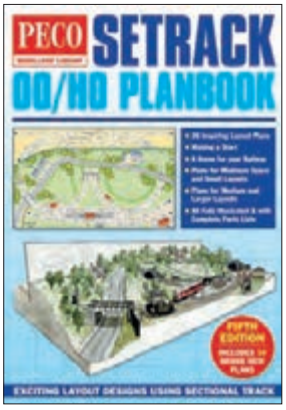
With the ST-101 Expansion Pack you can add a second line to form a double track complete with crossover

ST-101 HO Setrack Starter Track Set II

Expansion Pack:
2 x Standard Straight *(ST-200)*
4 x Double Straight *(ST-201)*
8 x No.3 Rad. Dble. Curves *(ST-231)*
2 x Right Hand Turnout *(ST-240)*
1 x Left Hand Turnout *(ST-241)*
2 x Bumper *(ST-270)*
1 x Pr. Connecting Clips *(ST-273)*
1 x Planbook *(STP-00)*

Minimum space required:
1829mm x 1143mm (6' 0" x 3' 9")

All Setrack items available separately, see next page.



PECO Setrack
HO Code 100
Unit trackage system

The solid nickel silver rails of Setrack HO Insulfrog Turnouts and Crossings are integrally moulded into the tie bases for maximum realism and strength.

All Setrack turnouts are ready for immediate use as they are self-isolating and the over-center spring built into the throw bar mechanism ensures that point rails snap over and hold their position without any need for extra levers.

If you prefer the remote control of turnouts, the Peco PL-10 and PL-11 series of Turnout Motors can be fitted.

(see page 44 for details of these and other PecoLectrics accessories).

Straight Units

ST-200 Standard Straight
Length: 168mm

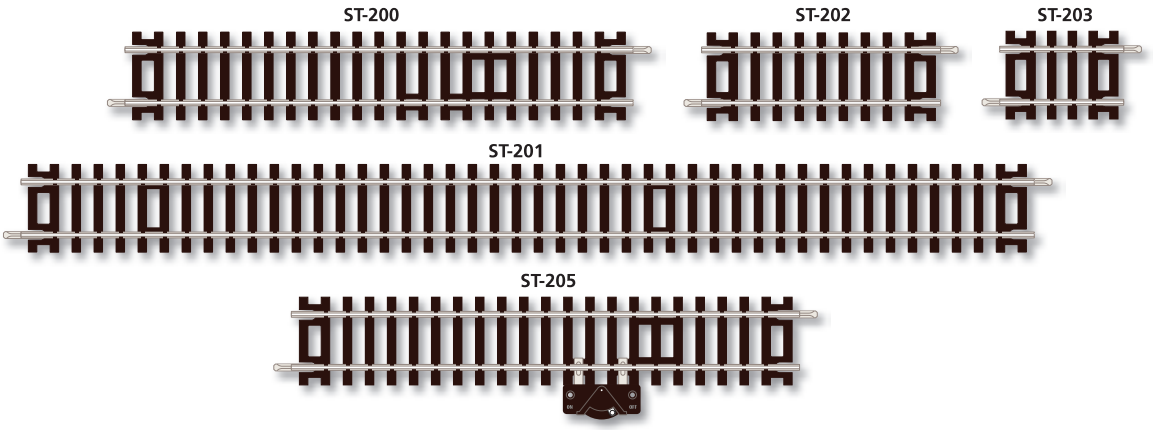
ST-201 Double Straight
Length: 335mm

ST-202 Short Straight
Length: 79mm

ST-203 Special Short Straight
Length: 41mm

ST-204 Long Straight
Length: 670mm

ST-205 Isolating Standard Straight
Length: 168mm

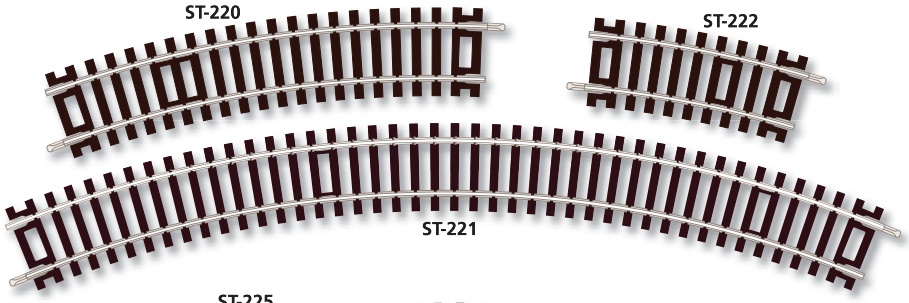


No. 1 Radius Curves

ST-220 Standard Curve
22.5˚angle, 16 per circle

ST-221 Double Curve
45˚angle, 8 per circle

ST-222 Half Curve
11.25˚angle, 32 per circle

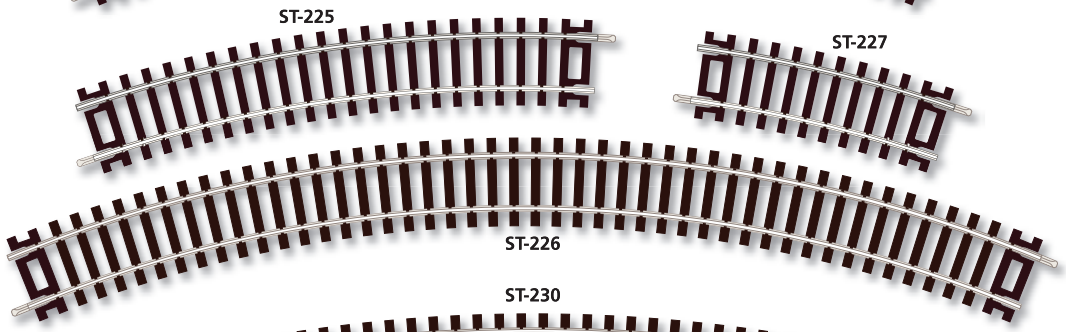


No. 2 Radius Curves

ST-225 Standard Curve
22.5˚angle, 16 per circle

ST-226 Double Curve
45˚angle, 8 per circle

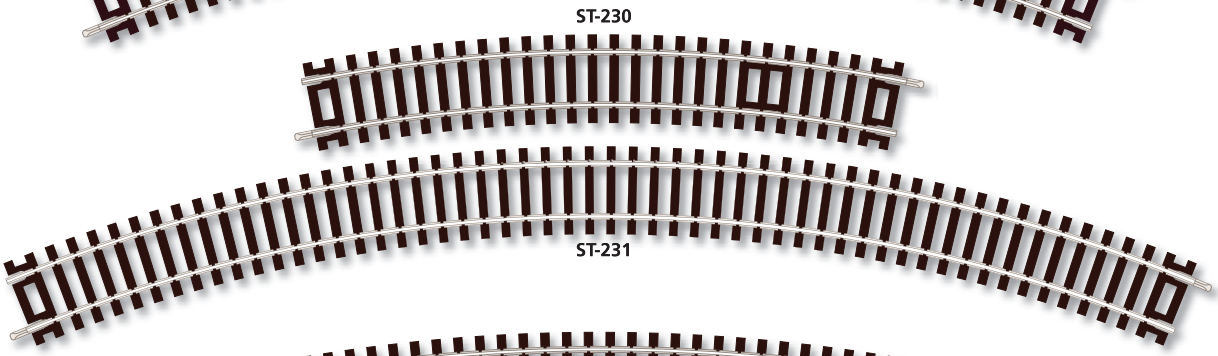
ST-227 Half Curve
45˚angle, 8 per circle



No. 3 Radius Curves

ST-230 Standard Curve
22.5˚angle, 16 per circle

ST-231 Double Curve
45˚angle, 8 per circle

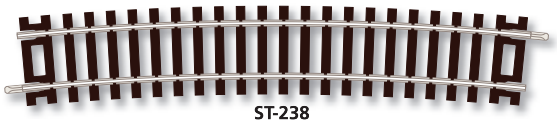


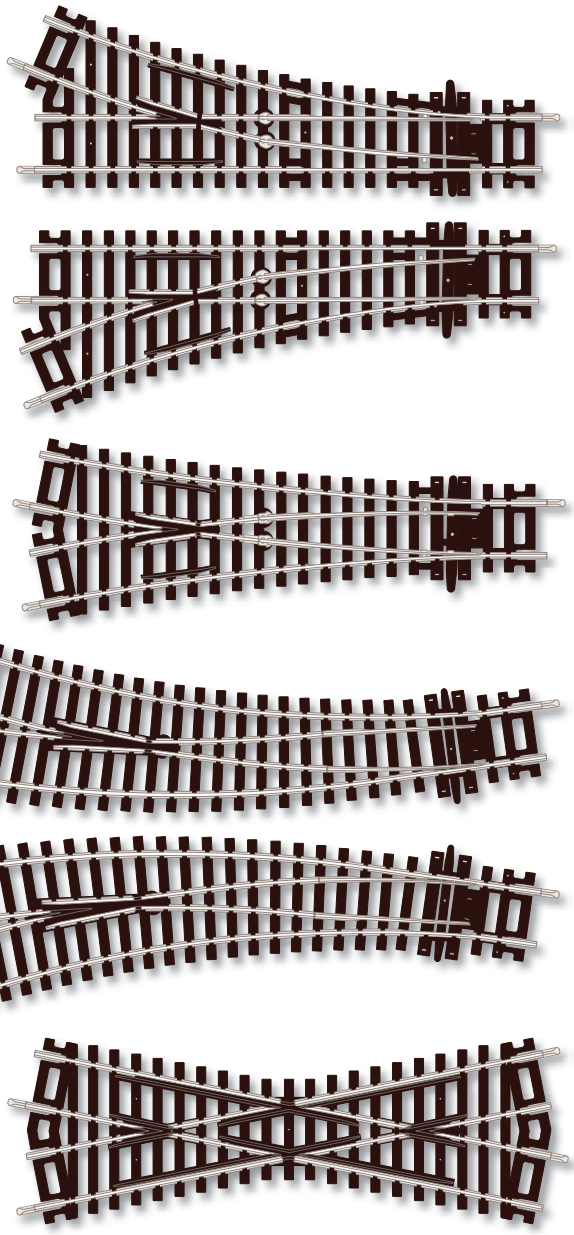
No. 4 Radius Curve

ST-235 Standard Curve
22.5˚angle, 16 per circle

Special Curve

ST-238 Special Curve
11.25˚angle, 32 per circle
For use with Y Turnout





Turnouts and Crossings

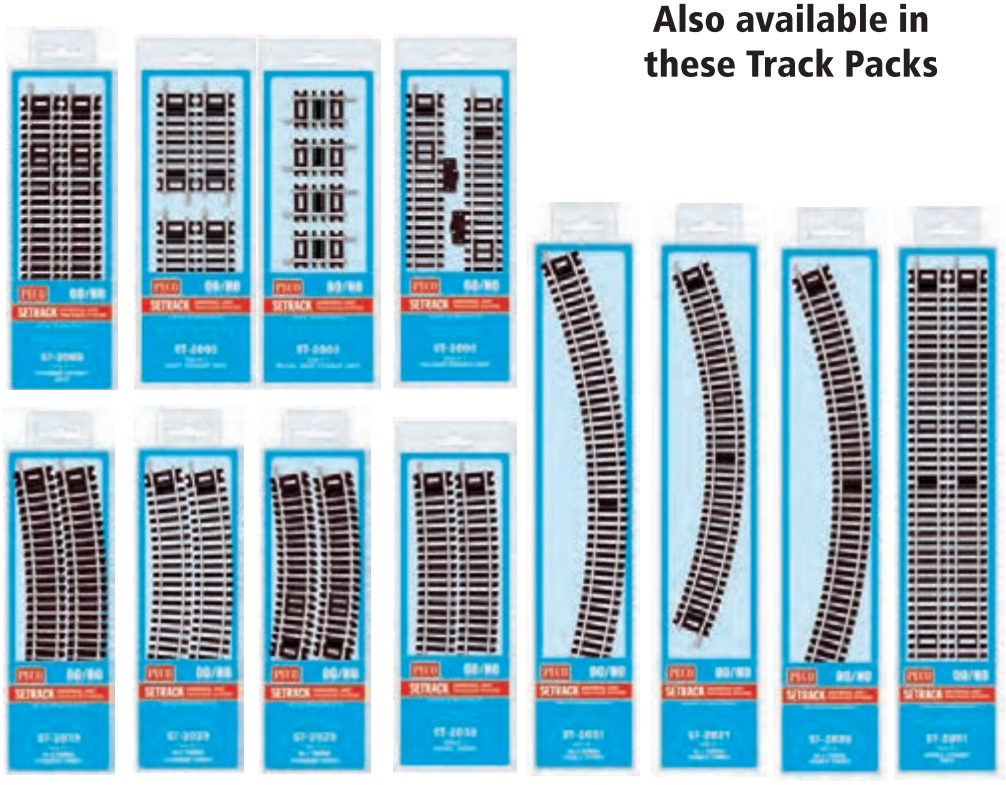
No. 2 Radius Turnouts
ST-240 Right hand *(Insulfrog only)*
ST-241 Left hand *(Insulfrog only)*
Length: 168mm
Radius: 438mm
Angle: 22.5

Medium Radius Wye Turnout
ST-247 *(Insulfrog only)*
Length: 170mm
Radius: 859.6mm
Angle: 22.5

Curved Turnouts
ST-244 Right hand *(Insulfrog only)*
ST-245 Left hand *(Insulfrog only)*
Angle 11.25˚
Can be used to create a crossover between No. 2 & No. 3 radius curves (see diagram).

Crossing
ST-250 *(Insulfrog only)*
Length: 168mm
Angle: 22.5˚

Also available in these Track Packs



Straight Units

ST-2000 Standard Straights
8 x ST-200

ST-2001 Double Straights
8 x ST-201

ST-2002 Short Straights
4 x ST-202

ST-2003 Sp. Short Straights
4 x ST-203

ST-2005 Isolating Straights
2 x ST-205

No. 1 Radius Curves

ST-2020 Standard Curves
8 x ST-220

ST-2021 Double Curves
4 x ST-221

No. 2 Radius Curves

ST-2025 Standard Curves
8 x ST-225

ST-2026 Double Curves
4 x ST-226

No. 3 Radius Curves

ST-2030 Standard Curves
8 x ST-230

ST-2031 Double Curves
4 x ST-231

No. 4 Radius Curves

ST-2035 Standard Curves
8 x ST-235

Special Curves

ST-2038 Special Curves
2 x ST-238

PECO Setrack HOn30* Code 80

Narrow Gauge rigid track

For narrow gauge models built to HO Scale running on 9mm gauge track, which at 3.5mm/ft scales up to a 2ft 6in prototype.

This rigid track system is particularly useful on small layouts with tight curves. It is fully compatible with the HOn30 Streamline track featured on the page opposite, they can be mixed on the same layouts without problems.

ST-401 Standard Straight
Length: 87mm
Pack of eight

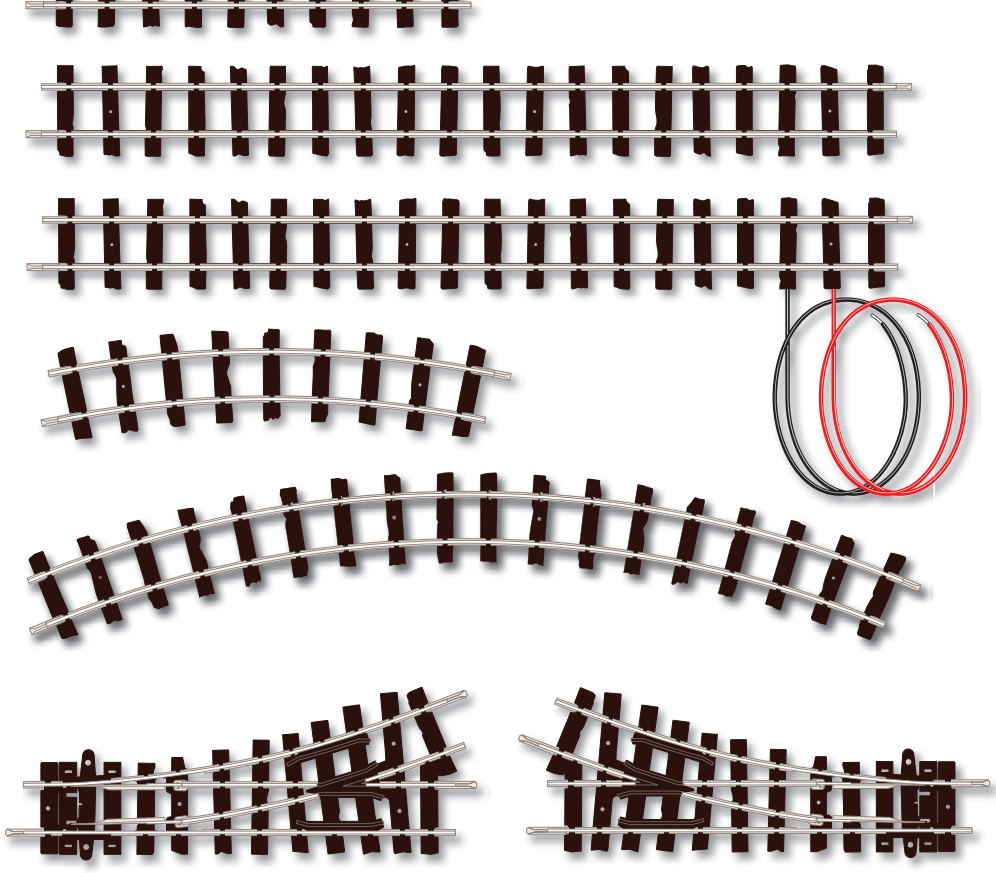
ST-411 Double Straight
Length: 174mm
Pack of four

ST-413 Double Straight Prewired
Length: 174mm
Single unit

ST-403 No. 1 Radius Standard Curve
22.5˚angle, 16 per circle
Radius: 228mm
Pack of eight

ST-412 No. 1 Radius Double Curve
45˚angle, 8 per circle
Radius: 228mm
Pack of four

Small Radius Turnout
(Insulfrog only)
ST-405 Right hand
ST-406 Left hand
Length: 87mm
Radius: 228mm
Angle: 22.5˚



OO-9/HOe Setrack
1st Radius Starter Set
ST-400
CONTENTS
6 x **ST-401** Standard Straight
2 x **ST-411** Double Straight
1 x **ST-413** Double Straight *(wired)*
1 x **ST-405** Right Hand Turnout
1 x **ST-406** Left Hand Turnout
5 x **ST-403** No. 1 Rad. Std. Curve
6 x **ST-12** No. 1 Rad. Dble. Curve
2 x **SL-440** Buffer Stop

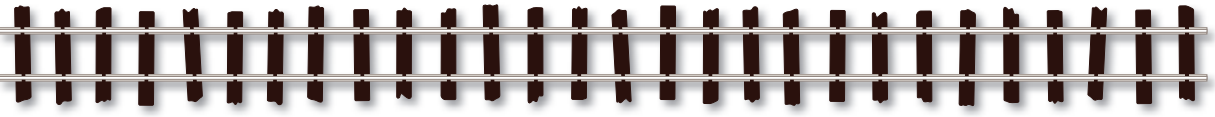
*Please note: HOn30 is known as OO-9 in the UK and HOe in Europe and this is the description which appears on our packaging.

PECO Streamline HOn30 Code 80

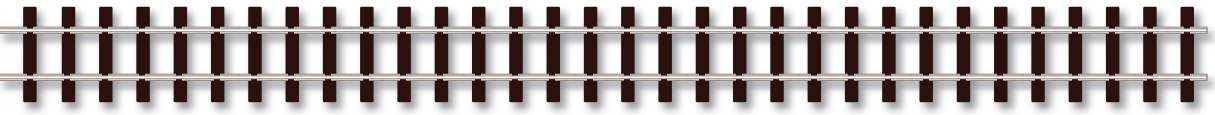
Narrow Gauge flexible track and matching turnouts

Built to exactly the same dimensions as the HOn30 Setrack range opposite.

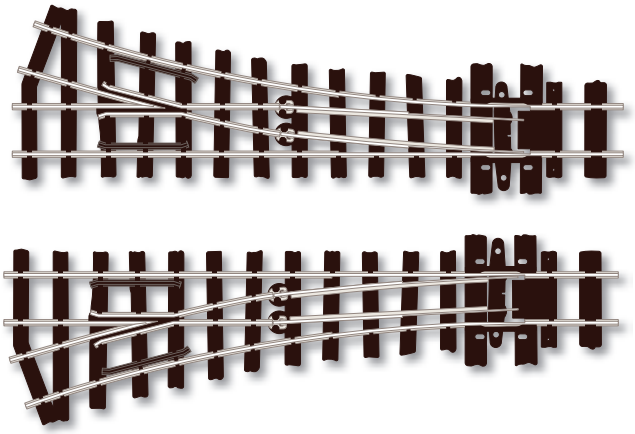
Available in a choice of two styles. Either the original range which depicts the slightly worn-out track of a picturesque old railroad, or alternatively a main line style suitable for a thriving industrial or well-maintained tourist line. Or you can mix and match them to create a railroad with both a history and a future.



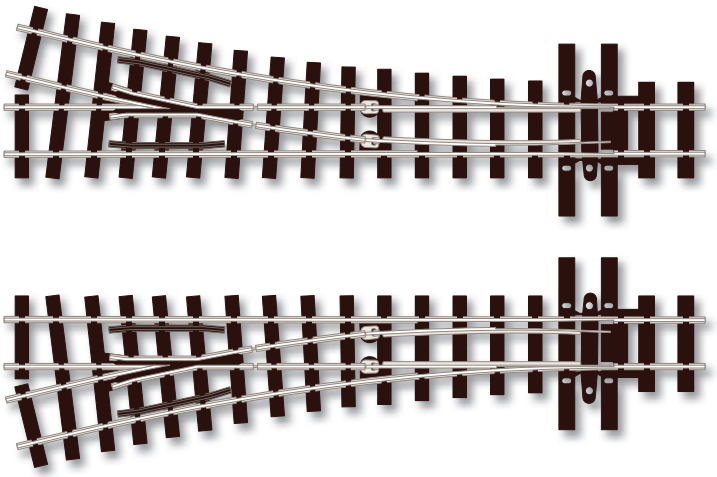
Flexible Track: Irregular Tie Type
SL-400
Length: 914mm



Flexible Track: Main Line Tie Type
SL-404
Length: 914mm



Small Radius Turnout
(Electrofrog only)
SL-E491 Right hand
SL-E492 Left hand
Length: 125mm
Radius: 304mm
Angle: 19.5°

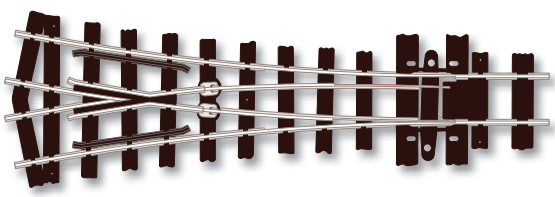


Main Line Turnout
(Electrofrog only)
SL-E495 Right hand
SL-E496 Left hand
Length: 143mm
Radius: 457mm
Angle: 14°

Conducting Rail Joiners
SL-310 Nickel Silver

Insulating Rail Joiners
SL-311 Design prevents adjacent rail ends from touching.

Track Fixing Pins
SL-14 Chemically blackened mild steel, 7 gram pack.



Medium Radius Y Turnout
(Electrofrog only)
SL-E497
Length: 111mm
Radius: 457mm
Angle: 22.5°

PECO Streamline HOm Code 75

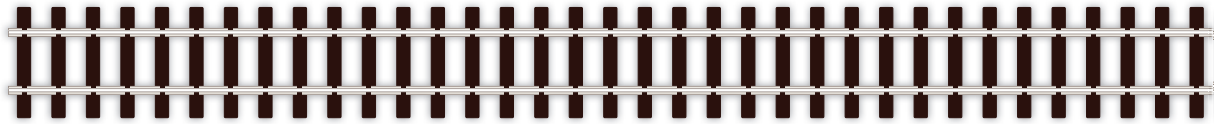
Meter gauge track

This 12mm gauge track system is accurately modeled in HO on the meter gauge track found in Europe, most notably in Switzerland.

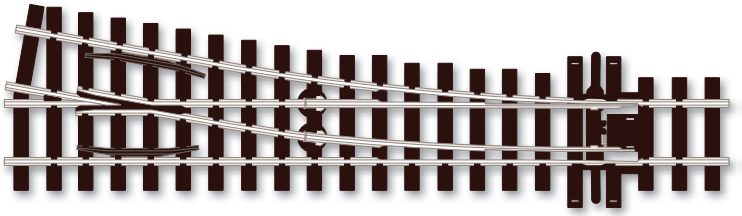
It is also useful for modeling the 3ft 6ins track found in southern Africa, Japan, Australia, Norway and parts of South America; in 4mm scale, the gauge is correct for the many 3ft gauge lines formerly found in Ireland and the Isle of Man.

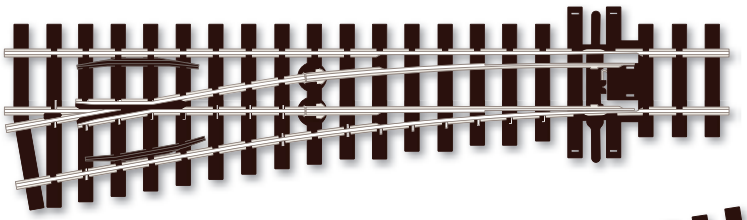
This versatile track could also be used for modeling standard gauge in TT (3mm/ft scale).

Flexible Track: Wooden Sleeper Type
SL-1400
Length: 914mm

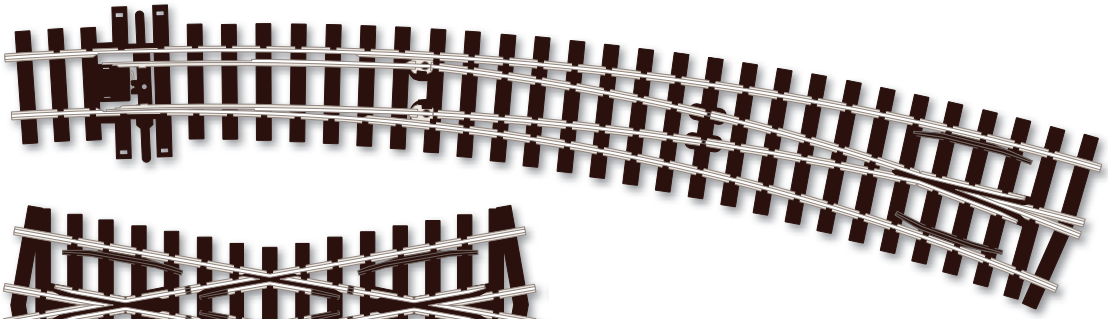


Medium Radius Turnout
ELECTROFROG
SL-E1495 Right hand
SL-E1496 Left hand
Length: 160mm
Radius: 508mm
Angle: 10°



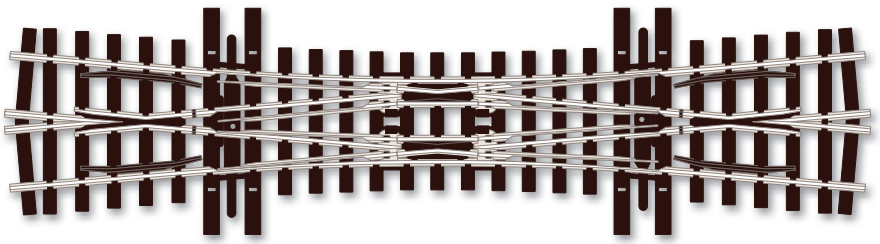


Curved Turnout
ELECTROFROG
SL-E1486 Right hand
SL-E1487 Left hand
Length: 237mm
Radii: 609mm/457mm



Short Crossing
ELECTROFROG
SL-E1493
Length: 117mm
Angle: 20°

Double Slip
ELECTROFROG
SL-E1490
Length: 190.5mm
Angle: 10°

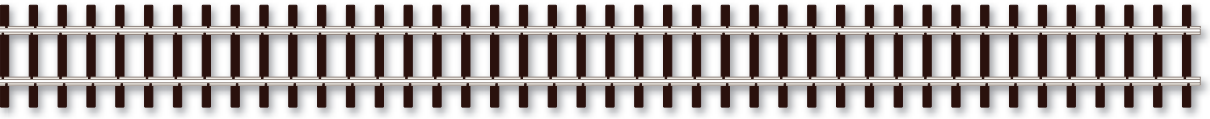


PECO Streamline HOn3 Code 70

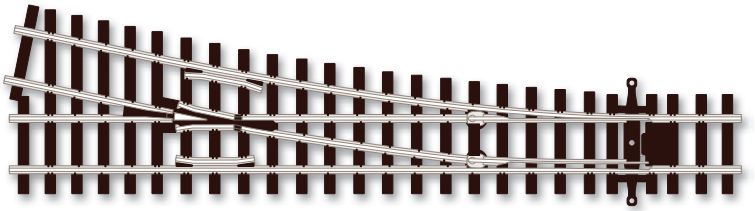
Three foot gauge track

Three feet was the gauge chosen by American railroad engineers faced with the task of bringing full sized trains into difficult mountainous terrain.

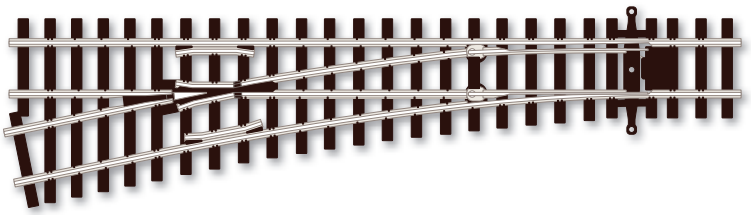
Despite their narrow gauge, the locomotives and rolling stock are definitely not small either in size or in stature. This fact, combined with the exciting scenic modeling possibilities offered by mountain-top locations, has helped to make HOn3 increasingly popular with modelers all over the world.



Flexible Track: Wooden Sleeper Type
SL-1500
Length: 914mm



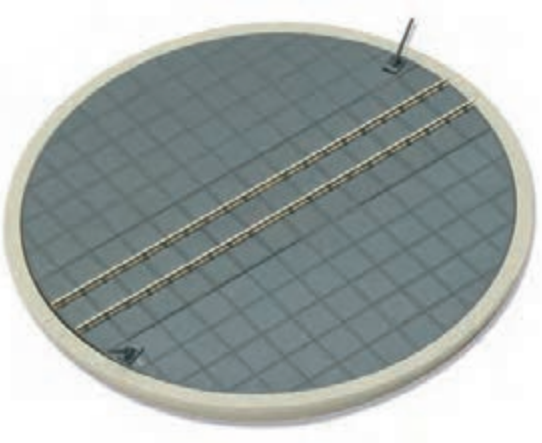
Medium Radius Turnout
UNIFROG
SL-U1551 Right hand
SL-U1552 Left hand
Length: 163mm
Radius: 762mm
Angle: 11.42°



SL-110
SL-111

Conductive Rail Joiners
SL-110 Code 75

Insulating Rail Joiners
SL-111 Code 75



HOm *continued*

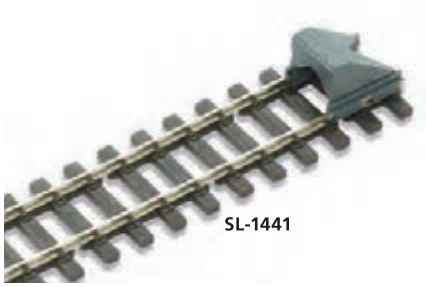
HOm Turntable
LK-1455
Deck length: 151mm
Hole required: 155mm diameter
Depth of well: 25mm

Kit may be assembled in two ways. As a traditional open-well type or with an all-over rivetted steel deck, an essential feature in areas subject to heavy snowfalls.

Turn to page 187 to see the PL-55 Turntable Motor.

SL-1440

Buffer Stop Kit Rail-built type
SL-1440



SL-1441

Buffer Stop Kit Welded steel box type
SL-1441

SL-110
SL-111

Conductive Rail Joiners
SL-110 Code 75, 24 per pack.

Insulating Rail Joiners
SL-111 Code 75, 12 per pack.

SL-14

Track Fixing Pins
SL-14 14mm, chemically blackened mild steel.

PECO Streamline N Gauge Code 80

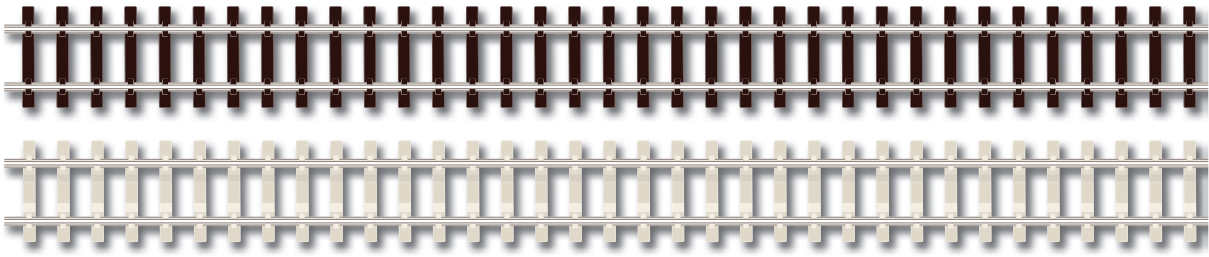
Universal trackage system

This ever-popular trackage system for N offers a choice of flexible track with either wooden or concrete type ties and a wide range of turnouts and crossings in both Insulfrog and Electrofrog types.

Suitable for all makes of N Scale trains and fully compatible with Peco Setrack.

Flexible Track

SL-300 (Wooden sleeper type)
SL-302 (Concrete sleeper type)
Length: 914mm

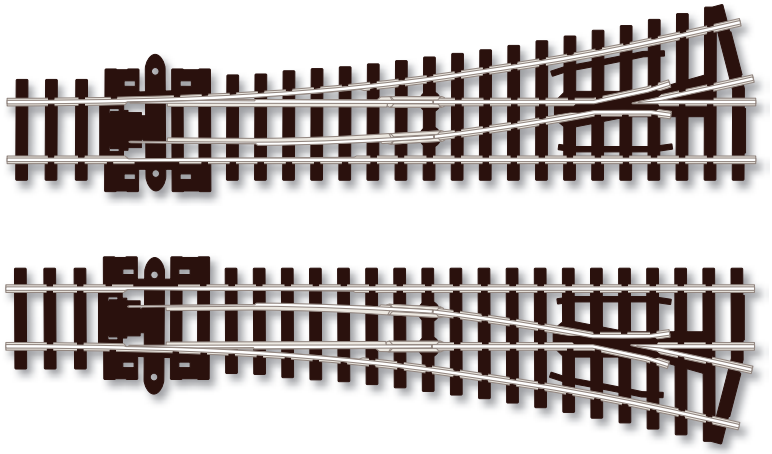


Medium Radius Turnout

SL-395 Right hand
INSULFROG
SL-E395 Right hand
ELECTROFROG

SL-396 Left hand
INSULFROG
SL-E396 Left hand
ELECTROFROG

Length: 123.7mm
Radius: 457mm
Angle 12°

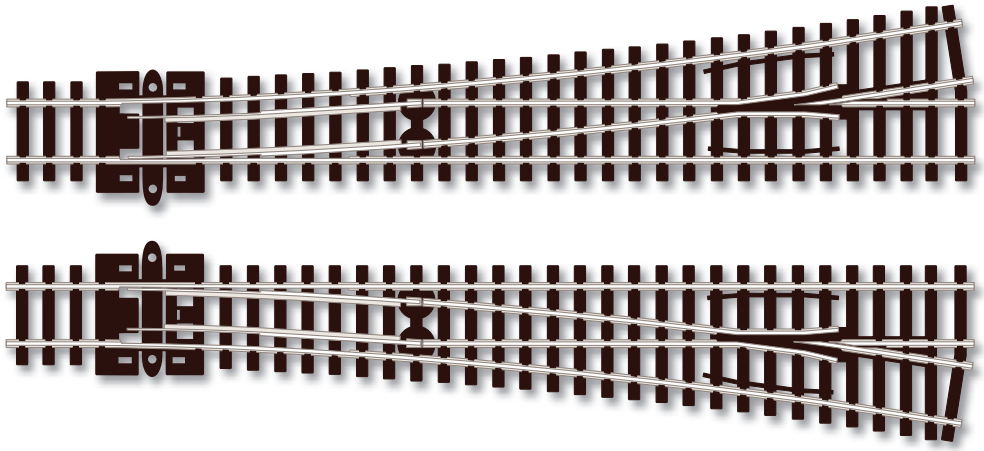


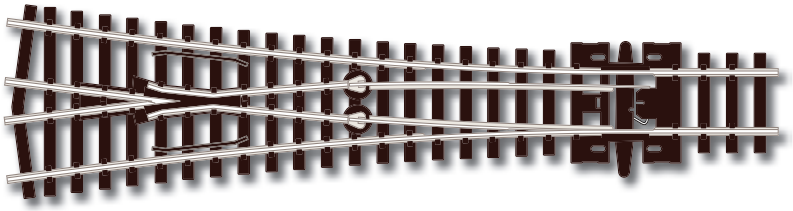
Large Radius Turnout

SL-388 Right hand
INSULFROG
SL-E388 Right hand
ELECTROFROG

SL-389 Left hand
INSULFROG
SL-E389 Left hand
ELECTROFROG

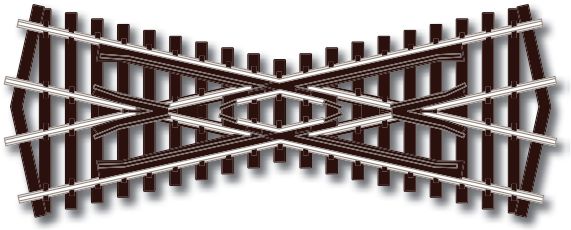
Length: 160mm
Radius 914mm
Angle 8°





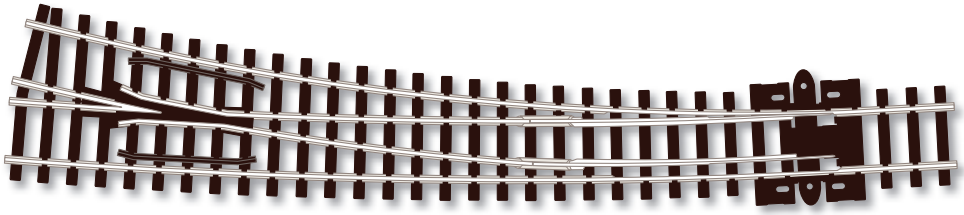
Medium Radius Y Turnout

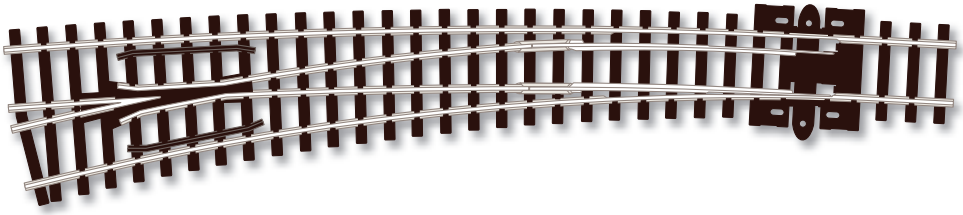
SL-397 INSULFROG
SL-E397 ELECTROFROG
Length: 127mm
Radius: 762mm
Angle: 8˚



Short Crossing

SL-393 INSULFROG
Length: 91mm
Angle: 25˚





Curved Turnout

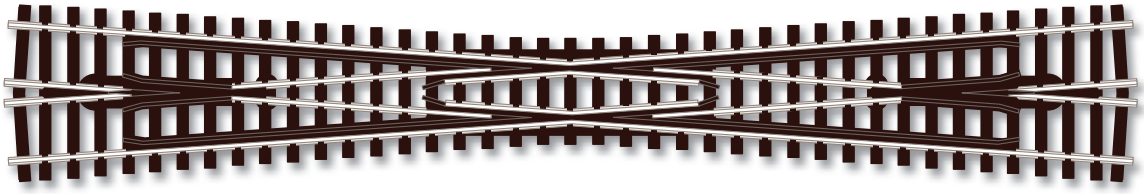
SL-386 Right hand
INSULFROG

SL-E386 Right hand
ELECTROFROG

SL-387 Left hand
INSULFROG

SL-E387 Left hand
ELECTROFROG

Length: 160mm
Radii: 457mm & 914mm
Angle: 8˚

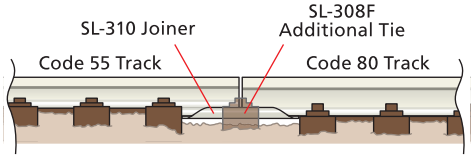


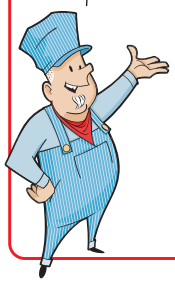
Long Crossing

SL-394 INSULFROG
Length: 187mm
Angle: 8˚
(not suitable for use with medium or small radius (Setrack) turnouts).

The Amazing Illusion Act

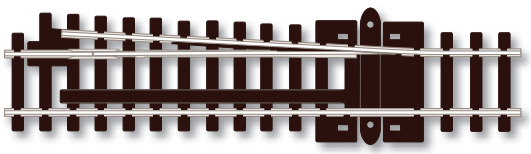
Joining Code 55 and Code 80 track:

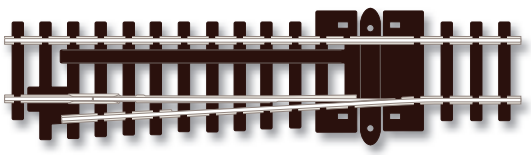




N Scale Track Compatibility:

Code 80 and Code 55 track use the same rail joiners (SL-310) and can be used together successfully on the same model railroad. However, the crossing geometry of the two ranges is different thus some specific track formations such as double junctions can be formed only with items from the same range.





Derails

INSULFROG
SL-384 Right hand
SL-385 Left hand
Length: 86mm

Why Derails?

Railroads around the world use derails, called 'catch points' in the UK, to protect main lines from unbraked runaway vehicles. Deliberately derailing a freight car sounds drastic but is infinitely preferable to allowing it to stray into the path of an oncoming train. They were often seen at the exits of freight yards.

PECO Streamline N Gauge Code 55

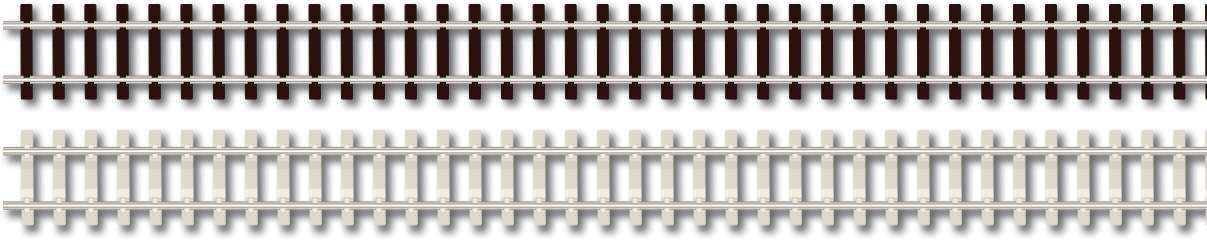
Universal Fine trackage system

For even greater realism choose Peco Streamline Universal Fine track. Despite a low visible rail height of just 1.4mm, all brands of N Gauge model locomotives will run on this track. The ingenious rail section of Peco Code 55 combines strength and durability with a highly realistic appearance and uses the same universal rail joiners as Code 80.

Packs of additional ties (included with turnouts) are available to maintain correct spacing at rail joints.

Flexible Track

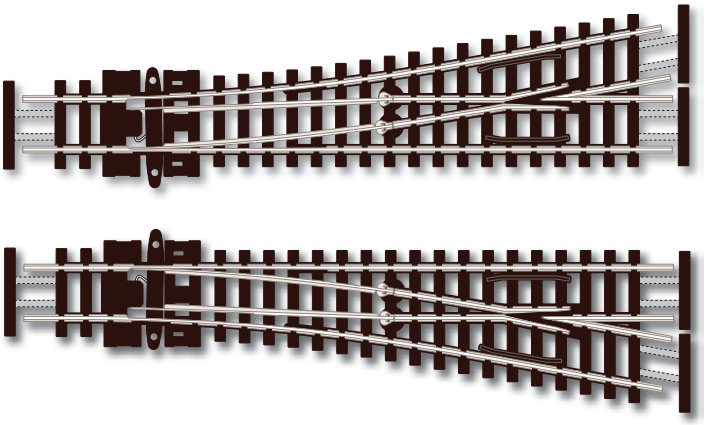
SL-300F (Wooden sleeper type)
SL-302F (Concrete sleeper type)
Length: 914mm



Small Radius Turnout

ELECTROFROG

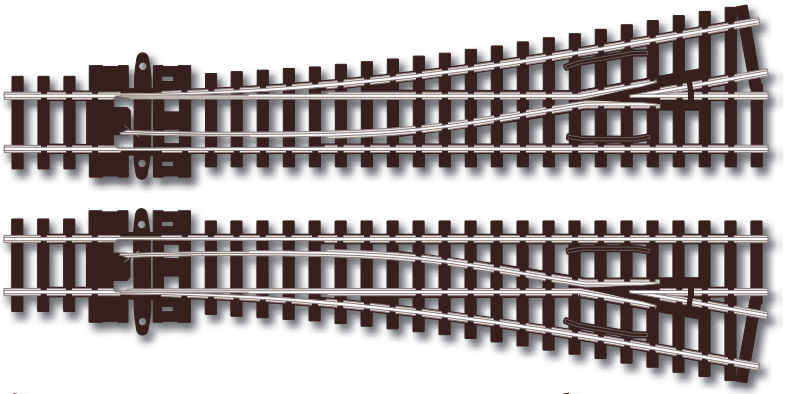
SL-E391F Right hand
SL-E392F Left hand
Length: 123mm
Radius: 305mm
Angle: 10°



Medium Radius Turnout

UNIFROG

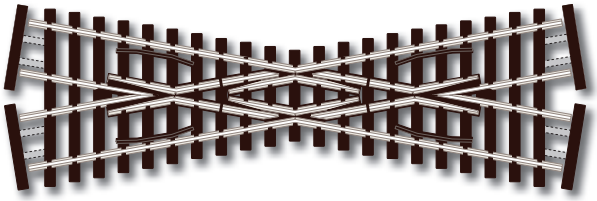
SL-U395F Right hand
SL-U396F Left hand
Length: 137mm
Radius: 457mm
Angle: 10°



Short Crossing

ELECTROFROG

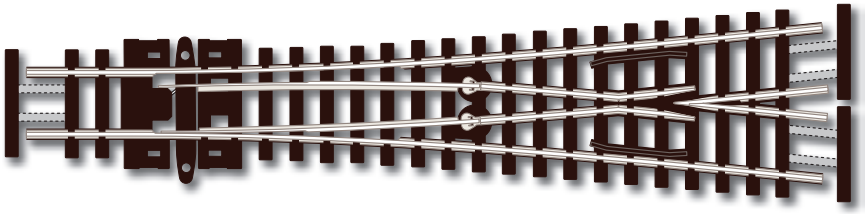
SL-E393F
Length: 104mm
Angle: 20°



Medium Radius Y Turnout

ELECTROFROG

SL-E397F
Length: 127mm
Radius: 762mm
Angle: 10°



Additional Ties

SL-308F Wooden type
SL-309F Concrete type
For use under rail joiners to maintain correct visual tie spacing. 24 per pack

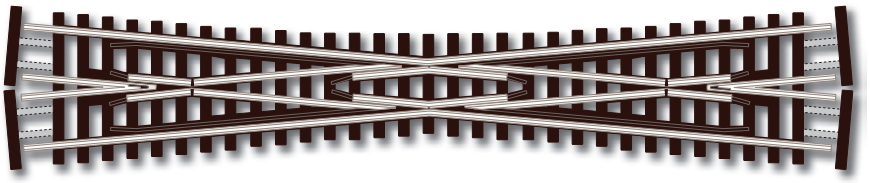
Rail Joiners

SL-310
Nickel silver, for conducting electricity

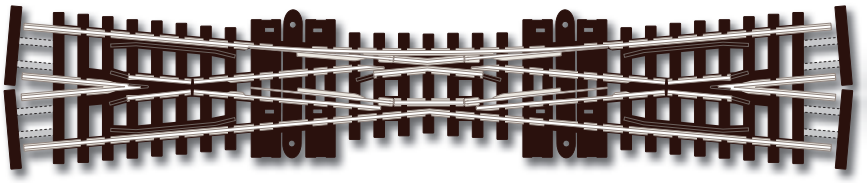
SL-311
Moulded in Nylon, for creating electrical breaks.

Track Fixing Pins

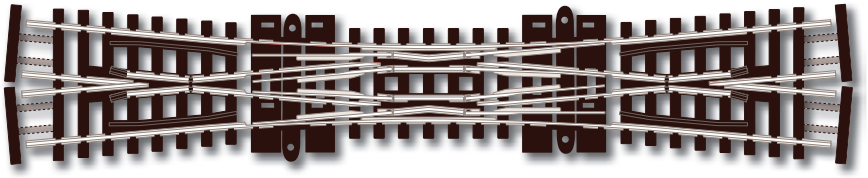
SL-14
Blackened mild steel
14mm



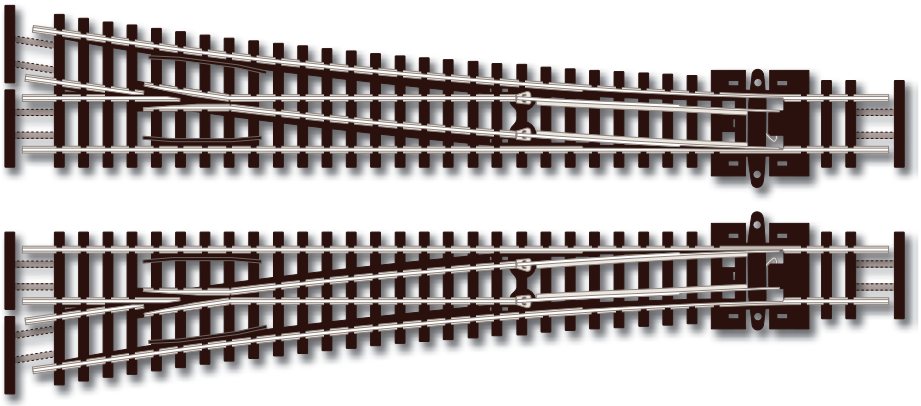
Long Crossing
SL-E394F ELECTROFROG
SL-394F INSULFROG
Length: 154mm
Angle: 10˚



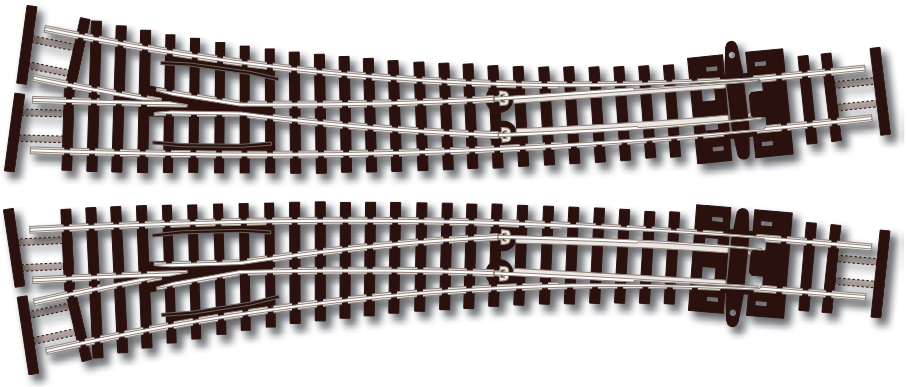
Single Slip
SL-E380F ELECTROFROG
SL-380F INSULFROG
Length: 154mm
Angle: 10˚



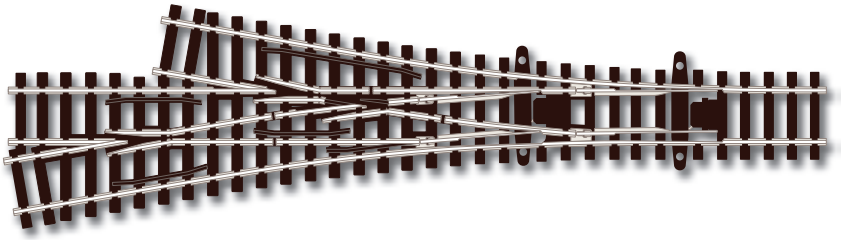
Double Slip
SL-E390F ELECTROFROG
SL-390F INSULFROG
Length: 154mm
Angle: 10˚



Large Radius Turnout
ELECTROFROG
SL-E388F Right hand
SL-E389F Left hand
Length: 164mm
Radius: 914mm
Angle: 10˚

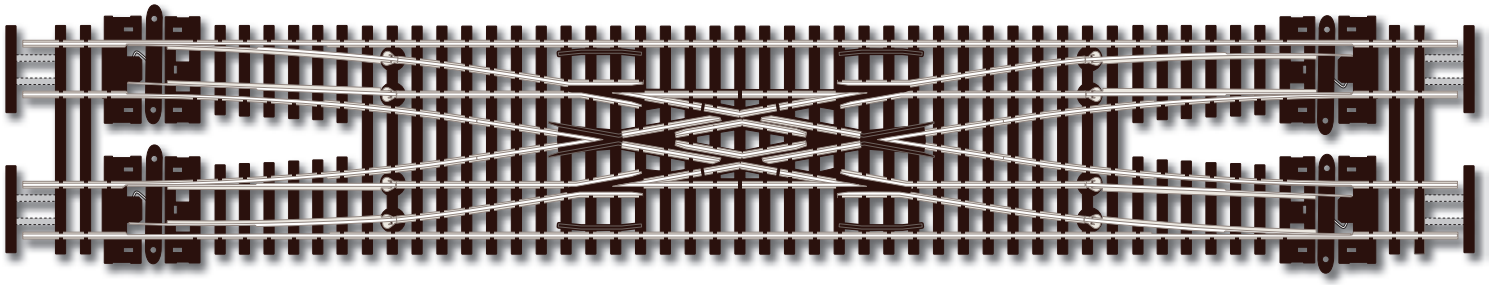


Curved Turnout
ELECTROFROG
SL-E386F Right hand
SL-E387F Left hand
Length: 160mm
Radii: 457mm & 914mm
Angle: 10˚

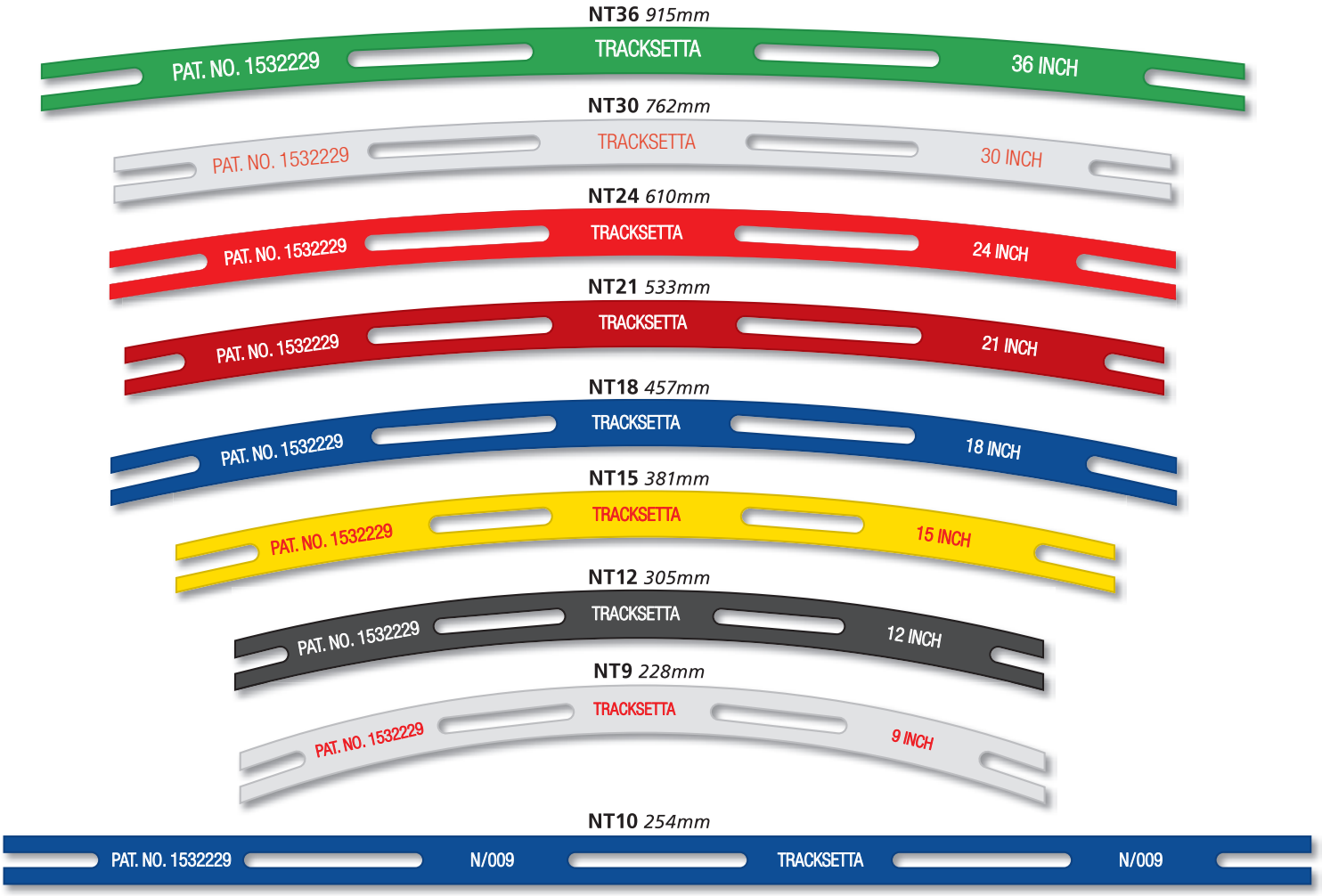


Asymmetric 3 Way Turnout
ELECTROFROG
SL-E399F
Length: 153mm
Radii: 457mm
Angle: 10˚

Double Crossover
ELECTROFROG
SL-E383F
Length: 271mm
Nominal radii 511mm
Angle 10˚



TRACKSETTA
N Gauge Tracklaying Templates
The easy way to kink-free trackwork and transition curves

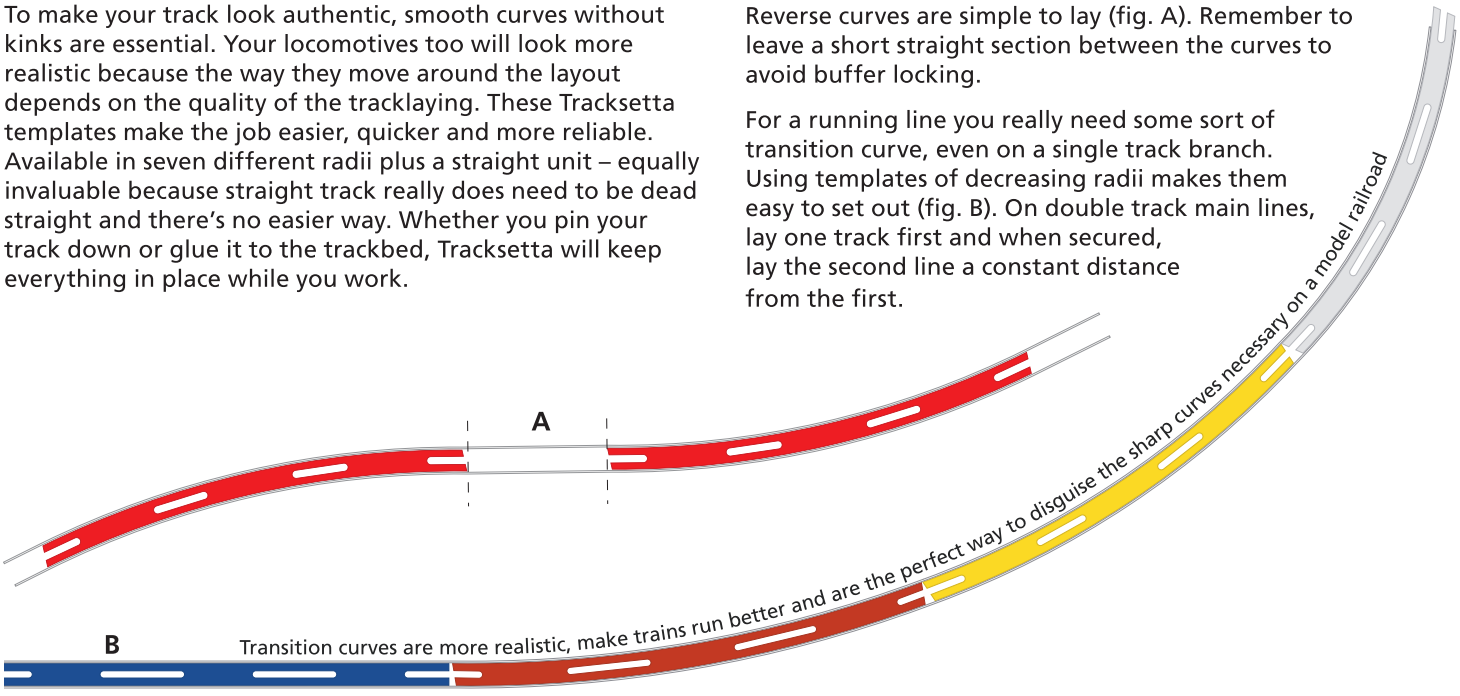


Why Tracksetta?

To make your track look authentic, smooth curves without kinks are essential. Your locomotives too will look more realistic because the way they move around the layout depends on the quality of the tracklaying. These Tracksetta templates make the job easier, quicker and more reliable. Available in seven different radii plus a straight unit – equally invaluable because straight track really does need to be dead straight and there's no easier way. Whether you pin your track down or glue it to the trackbed, Tracksetta will keep everything in place while you work.

Reverse curves are simple to lay (fig. A). Remember to leave a short straight section between the curves to avoid buffer locking.

For a running line you really need some sort of transition curve, even on a single track branch. Using templates of decreasing radii makes them easy to set out (fig. B). On double track main lines, lay one track first and when secured, lay the second line a constant distance from the first.



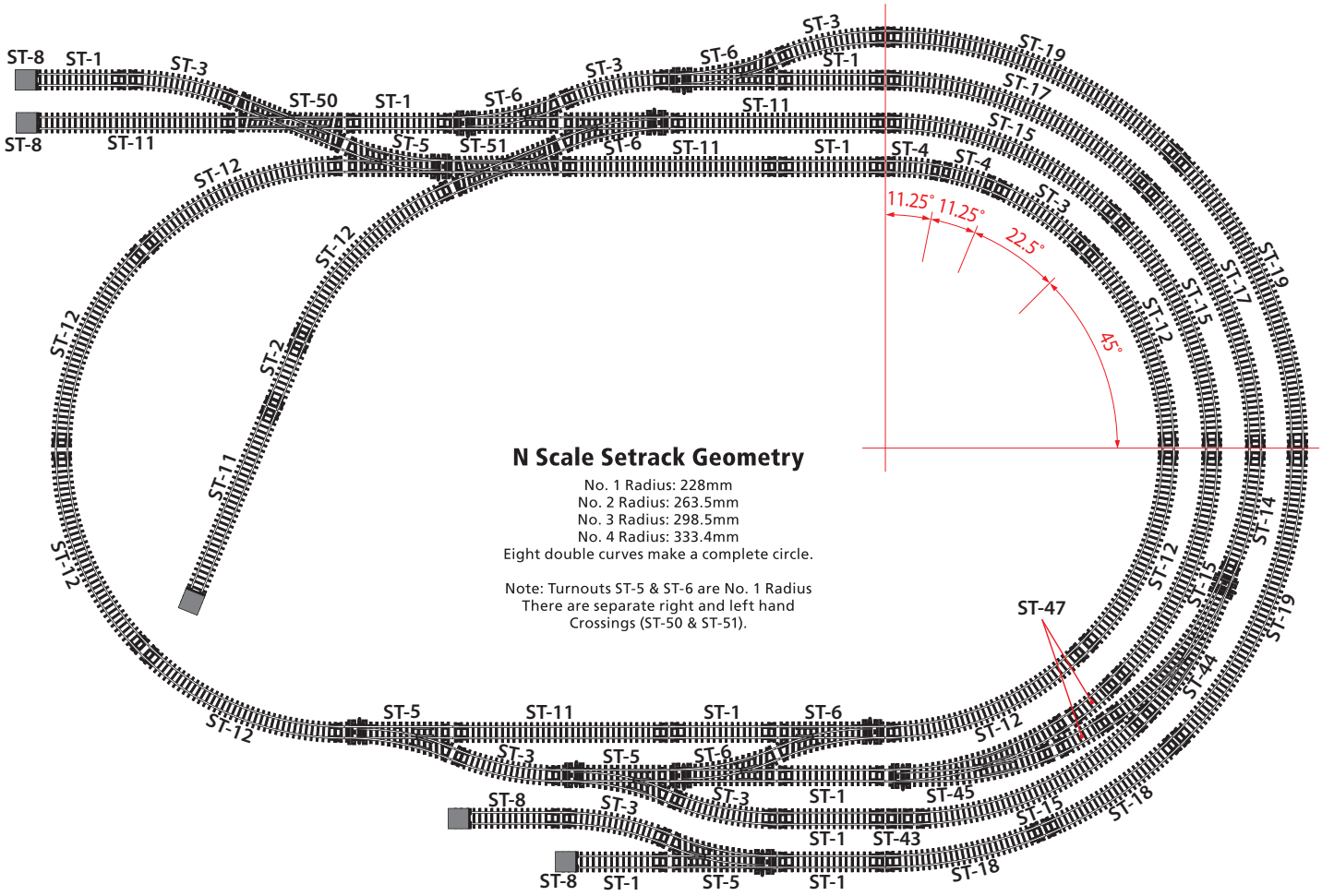
**Suitable also for OO-9 track. For details of Tracksetta for OO/HO Gauge & O-16.5 see page 17.*

The high quality rigid unit trackage system suitable for all popular brands of N Scale model trains.

Being fully compatible with both Code 80 and Code 55 Peco Streamline, it need never be discarded as your layout develops.

The solid nickel silver rails are integrally moulded into the tie bases for maximum realism and strength. Turnouts are fitted with an over-center spring for immediate use, no extra levers necessary.

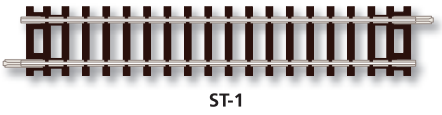
PECO Setrack
N Scale Code 80
Unit trackage system

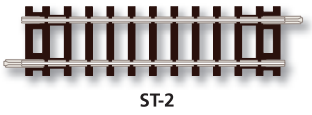


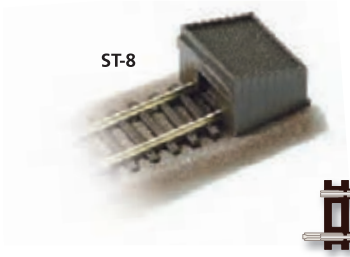
N Scale Setrack Geometry

No. 1 Radius: 228mm
No. 2 Radius: 263.5mm
No. 3 Radius: 298.5mm
No. 4 Radius: 333.4mm
Eight double curves make a complete circle.

Note: Turnouts ST-5 & ST-6 are No. 1 Radius
There are separate right and left hand
Crossings (ST-50 & ST-51).


ST-1


ST-2


ST-8


ST-10


ST-11

ST-9


ST-12


ST-3 ST-4

Straight Units

ST-1 Standard Straight
Length: 87mm

ST-2 Short Straight
Length: 58mm

ST-10 Standard Straight (Wired)
Length: 87mm

ST-11 Double Straight
Length: 174mm

No. 1 Radius Curves: 228mm

ST-12 Double Curve
45°angle, 8 per circle

ST-3 Standard Curve
22.5°angle, 16 per circle

ST-4 Half Curve
11.25°angle, 32 per circle

Accessories

ST-8 Bumper
Tie Built Type
With slots to locate onto track.

ST-9 Power Connecting Clips
Also suitable for N Scale Streamline.

No. 2 Radius Curves: 263.5mm

ST-14 Standard Curve
22.5˚angle, 16 per circle

ST-15 Double Curve
45˚angle, 8 per circle

No. 3 Radius Curves: 298.5mm

ST-16 Standard Curve
22.5˚angle, 16 per circle

ST-17 Double Curve
45˚angle, 8 per circle

No. 4 Radius Curves: 333.4mm

ST-18 Standard Curve
22.5˚˚angle, 16 per circle

ST-19 Double Curve
45˚angle, 8 per circle

Turnouts and Crossings

No. 1 Radius Turnouts

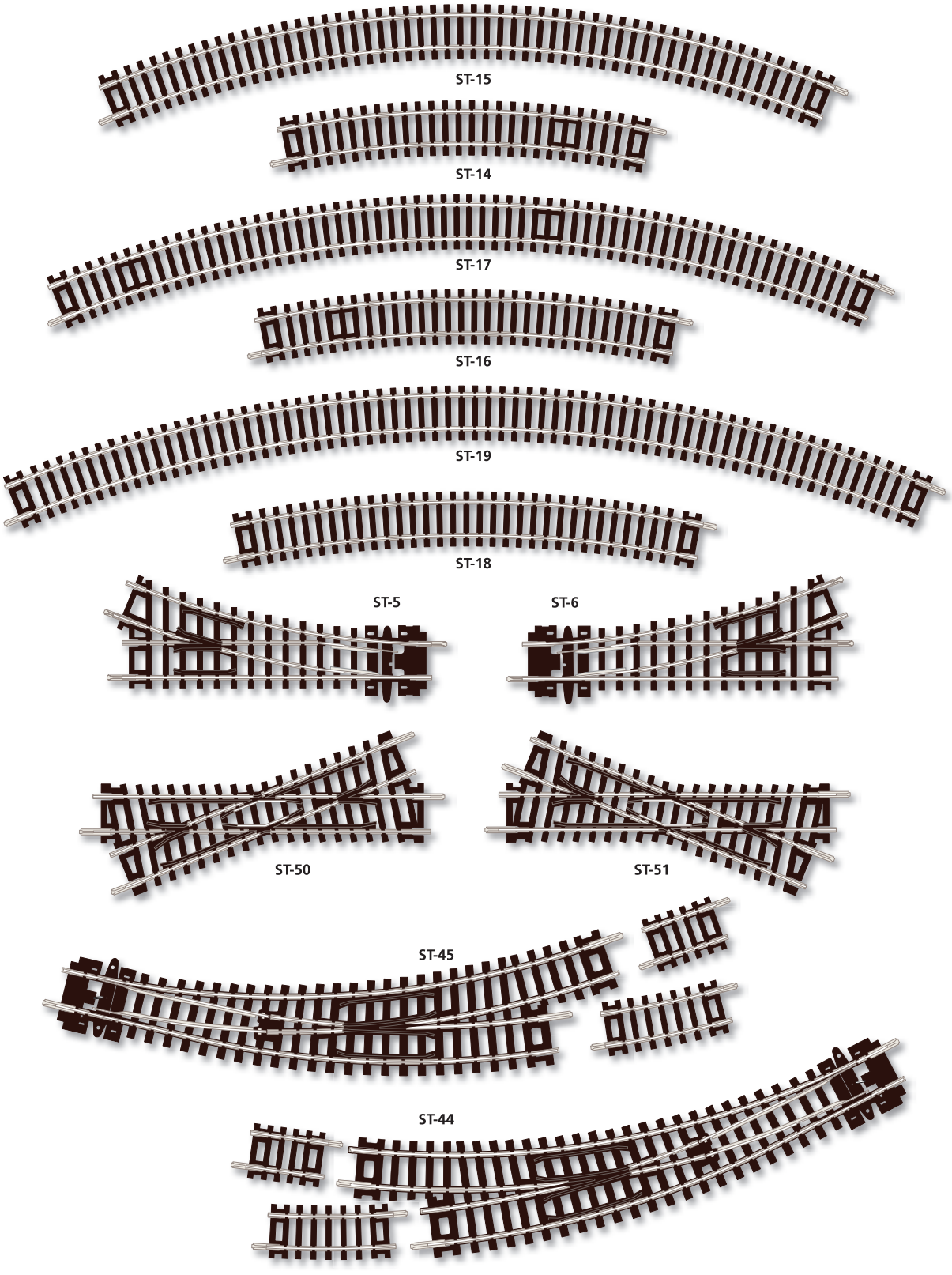
ST-5 Right hand INSULFROG
ST-6 Left hand INSULFROG
Length: 87mm
Radius: 228mm
Angle: 22.5˚

Short Crossings

ST-50 Right hand INSULFROG
ST-51 Left hand INSULFROG
Length: 87mm
Angle: 22.5˚

Curved Turnouts

ST-44 Right hand INSULFROG
ST-45 Left hand INSULFROG
Inner Length: 138.5mm
Outer Length: 156mm
Note: each Curved Turnout is supplied with a special short straight and a special curve, for use when forming a curved crossover using an ST-44 & ST-45.



N Setrack 1st Radius Starter Set

ST-300

Contents
6 x **ST-1** Standard Straight
3 x **ST-11** Double Straight
5 x **ST-3** No. 1 Rad. Std. Curve
6 x **ST-12** No. 1 Rad. Dble. Curve
1 x **ST-5** Right Hand Turnout
1 x **ST-6** Left Hand Turnout
2 x **ST-8** Buffer Stop
2 x **ST-9** Power Connecting Clip
1 x **IN-1** Planbook

Minimum space required: 610mm x 914mm (2' x 3')

N Setrack 2nd Radius Starter Set

ST-301

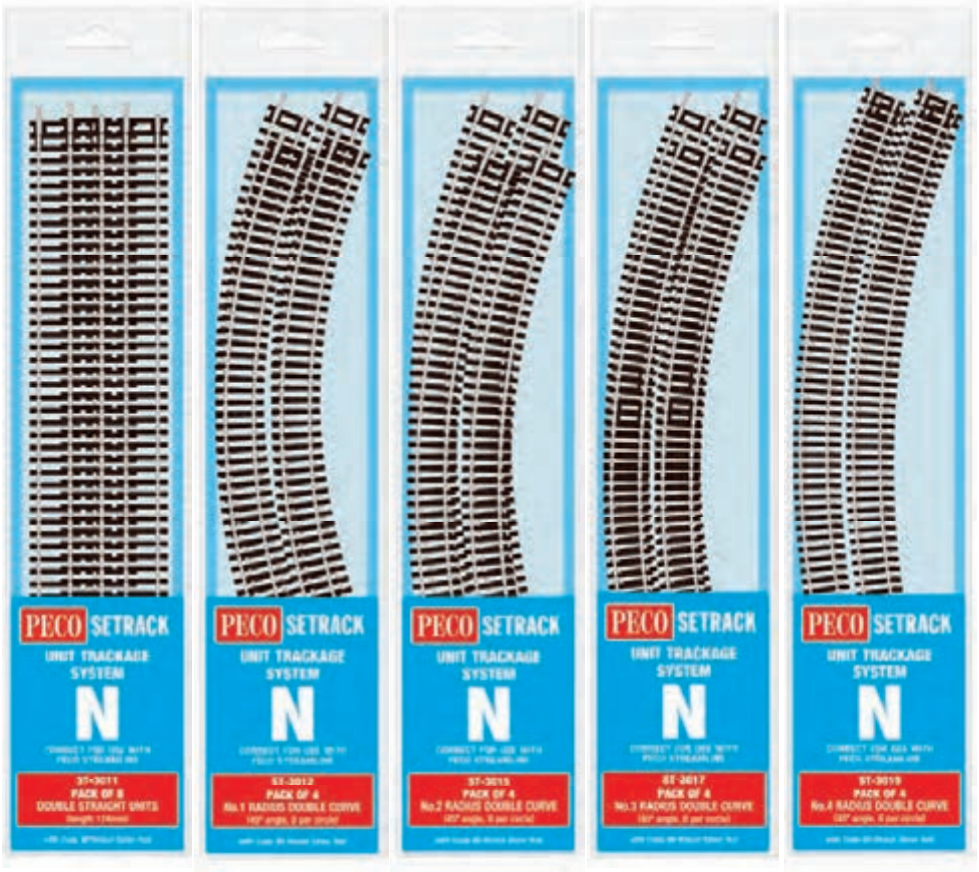
Contents
4 x **ST-1** Standard Straight
4 x **ST-11** Double Straight
8 x **ST-15** No. 2 Rad. Dble. Curve
1 x **ST-10** Standard Straight *(wired)*
2 x **ST-5** Right Hand Turnout
2 x **ST-8** Buffer Stop
1 x **IN-1** Planbook

Minimum space required: 686mm x 991mm (2' 3" x 3' 3")

ST-300

ST-301

PECO Setrack
N Gauge Code 80
Unit trackage system
continued



Track Packs

ST -3000 Series

Straight Units

ST-3001 Standard Straights
Pack of 8. Length: 87mm

ST-3002 Short Straights
Pack of 4. Length: 58mm

ST-3011 Double Straights
Pack of 8. Length: 174mm

No. 1 Radius Curves: 228mm

ST-3003 Standard Curves
22.5˚angle, 16 per circle,
Pack of 8.

ST-3004 Half Curves:
11.25˚angle, 32 per circle,
Pack of 4.

ST-3012 Double Curves
45˚angle, 8 per circle,
Pack of 4.

No. 2 Radius Curves: 263.5mm

ST-3014 Standard Curves
22.5˚angle, 16 per circle,
Pack of 8.

ST-3015 Double Curves
45˚angle, 8 per circle,
Pack of 4.

No. 3 Radius Curves: 298.5mm

ST-3016 Standard Curves
22.5˚angle, 16 per circle,
Pack of 8.

ST-3017 Double Curves
45˚angle, 8 per circle,
Pack of 4.

No. 4 Radius Curves: 333.4mm

ST-3018 Standard Curves
22.5˚˚angle, 16 per circle,
Pack of 8.

ST-3019 Double Curves
45˚angle, 8 per circle,
Pack of 4.

Tracklaying Tips

Using PECO HO Streamline

Many of these techniques apply also to other scales.

Watch PECO TV for a demonstration – www.peco-uk.com

STEP ONE is to draw full size the track design on the baseboard. This will prove that your plan works well. Aids to help this task include turnouts and crossings plans (see panel at foot of page) and also the PECO 6 ft way gauge (SL-336 for N Scale and SL-36 for HO Scale). Tracksetta Curve templates are another set of useful tools.

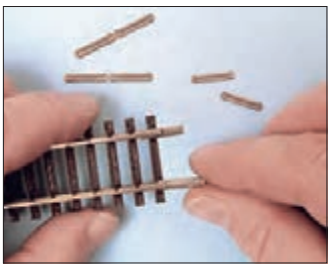
Cutting Flexible Track

Cutting a length of flexible track can be tricky. Using a pair of side cutters, such as the Xuron type, will make the task easier, but remember to cut

from top to bottom and you will find this will be clean and only require a little dressing with a file. Alternatively, you can use a hacksaw or razor saw and in these cases it is suggested

you make a simple holding jig from a piece of wood, with two grooves to hold the rails still while cutting.

Joining the Track



Rail joiners electrically conductive or plastic insulating, are used to connect the rails together for both track and turnouts. They give a good, tight physical connection and should allow for a smooth passage of wheels when running over the top of the rails. Remember to try and maintain constant tie spacing.

To achieve this, it will be necessary for the leading part of the joiner to pass over the first tie. You may find it helpful to remove the rail fixings on these ties. When joining tracks together on the curve, it is important to make sure there are no straights at the end of the rails. To prevent this you

will find it is best to temporarily remove the last 8 or so ties by cutting the web on the underside, then manipulating the rail by hand or with a pair of pliers to the curve that you require right to the ends of the rails, then replace the ties.

Joining Straight Track to Turnouts and Other Formations

In order to maintain correct tie spacing, it will be necessary on some occasions to cut the ends of some ties. It is best to do this by trimming a little sliver off at a time and checking the fit as you go.

Fixing the Track to the Baseboard

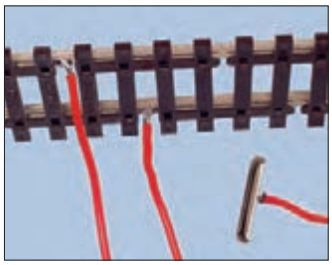
To undertake this task there are basically two options, gluing or pinning. You may need to experiment to decide which is best for yourself. Gluing, using an impact type of adhesive, works very well provided the curves are not too sharp. PVA white adhesive is also very popular but because the glue

takes a long time to grab, you will need to use pins to hold everything in place while the glue is setting. Also remember this can be quite permanent, so if you wish to make a change to your design later on this can be difficult. The alternative is to use very fine PECO pins, ref: SL-14, which are hardly visible.

With flexible track it is best to pre-drill a pilot hole through the centre of the ties where desired. You will find turnouts and crossings have blind fixing holes, which can be detected easily from the underside and completed using a pin or drill

Power to the Track

Soldering wires to the underside of the rail or to a rail joiner is one of the best ways to ensure a good, attachment. The way to avoid melting



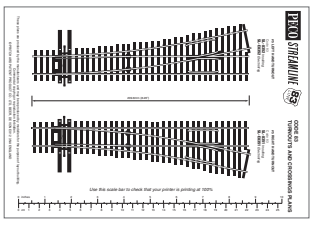
adjacent ties is to make sure the iron is really hot. This enables you to get in and out quickly. Collateral tie damage is more likely with a weak iron which needs to be held against the rail for a long time before the solder flows, However, many enthusiasts do not own a soldering iron, or indeed wish to use such a device, and in these cases we recommend the PL-80 series Power Feed Joiners *(see p. 45)*.

Ballasting

This is one of the final tasks for track laying and if undertaken carefully will make a very pleasing visual appearance. Materials can range from granulated cork, ideal for portable layouts where weight

might be a problem, to real stone chippings. These are available in a variety of grades and colors to best suit your railroad. The traditional way of securing this is to apply a diluted solution of PVA to the ballast after it has been carefully positioned in place.

Also recommended is to add a drop of wetting agent as this will help the solution flow better through the ballast down to the trackbed. A syringe, minus needle, is an ideal tool to apply the glue.



PECO Turnout and Crossing Plans

Print full size templates to help accurately plan your layout.

Currently available for:
N Code 80 / N Code 55 / HO Code 100 & 75 / HO Code 83 / O Code 143FB / O Code 124 BH

PDF files (A4 page size) of individual plans are available to download free from: **www.peco-uk.com**

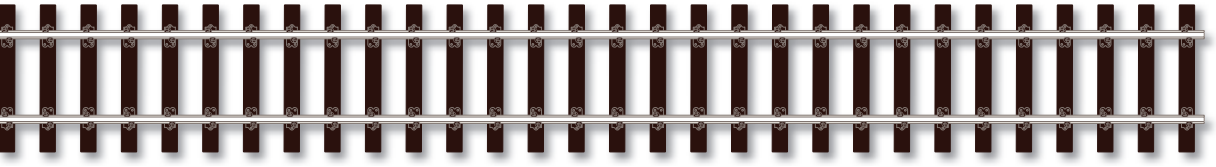
PECO Streamline O Gauge Code 143

with flat bottom rail

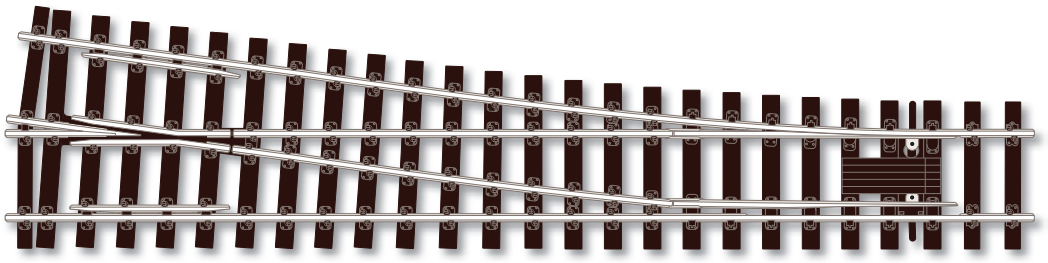
Superbly detailed, with correct scale width 'wood grain' ties and integrally moulded baseplates with Pandrol™ type rail fixings.

The solid nickel silver rail used throughout has been precisely manufactured to the the correct modern flat bottom section.

Despite its superb scale appearance, Streamline O Gauge Flat Bottom track is equally suitable for use outside on garden layouts as it is indoors.



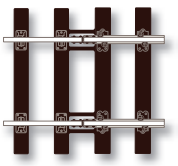
Flexible Track
SL-700FB
Length: 914mm



Medium Radius Turnout
ELECTROFROG
SL-E791FB Right hand
SL-E792FB Left hand
Length: 412mm
Radius: 1828mm
Angle: 8°

Fixing Nails
IL-11 Non-rusting brass nails for fixing track, suitable for outdoors.

IL-11



Transition Track
SL-713
For use between sections of Code 124 bullhead and Code 143 flat bottom.

Rail Joiners
SL-710FB Nickel Silver, 24 per pack.
SL-711FB Insulating, 12 per pack.

Cosmetic Fishplates
IL-717 Plastic fishplates applied to rail sides with glue when joining Code 124 BH to Code 143 FB track.

IL-717

Microswitch
PL-33 Enclosed type. Fits into recess at tiebar end for self-contained frog polarity switching.

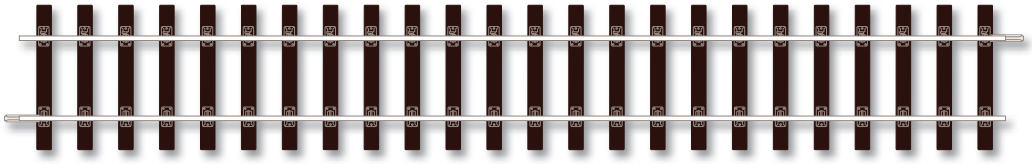
PECO Setrack
O Gauge Code 124
with bullhead profile rail

Peco Setrack Bullhead O Gauge track makes it possible to have somewhere to run trains without having to build or find room for a fixed layout.

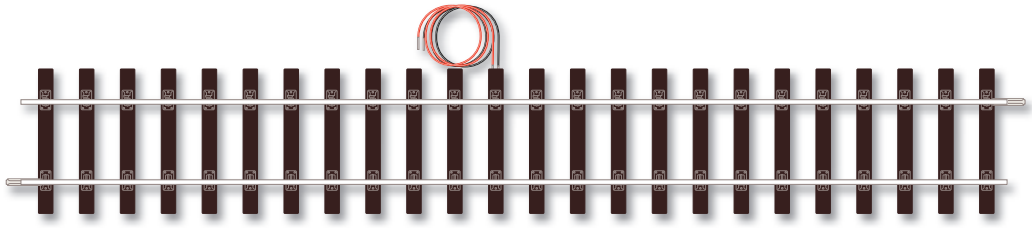
With Setrack you can lay out your trackwork indoors on the floor or out on the patio in any configuration you choose and pack it all away again afterwards. Compatible with and made to the same high standard of detail and realism as the Bullhead Streamline range, it can also be incorporated into a Streamline layout without problems.

Made with solid nickel silver rail to the classic bullhead section and check rails are also machined from solid rail.

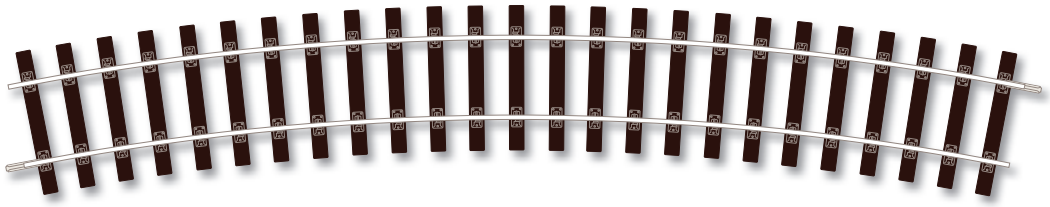
Setrack Straight
ST-700
Length: 394mm



Setrack Straight
ST-702 (Wired)
Length: 394mm

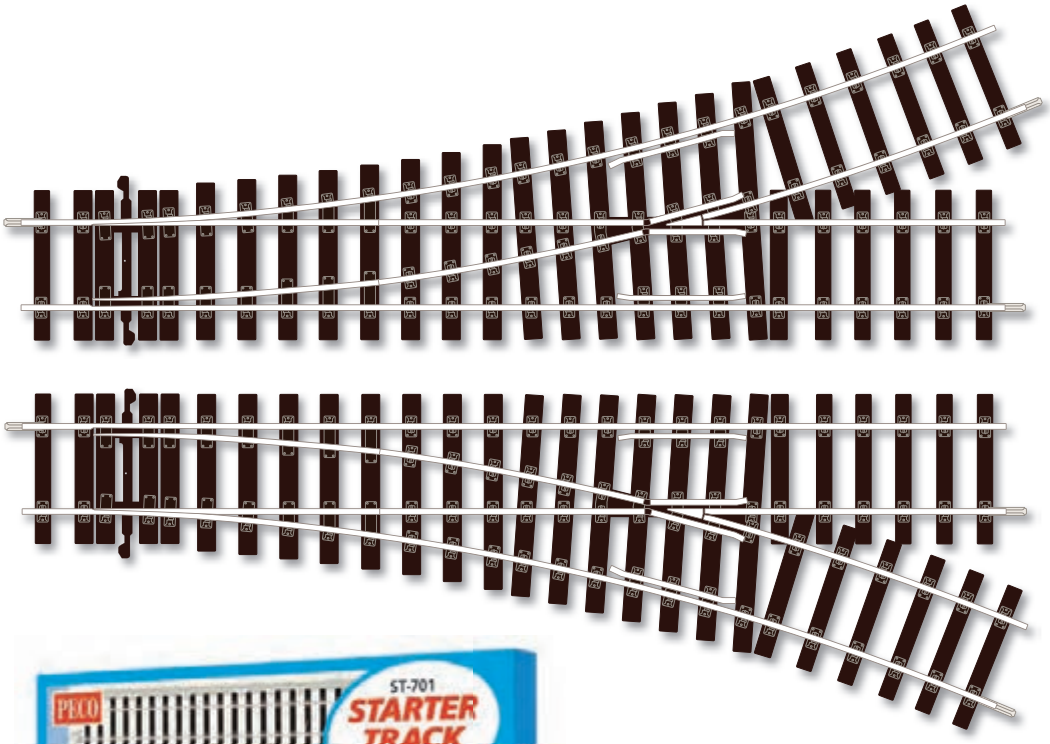


Setrack Curve
ST-725
Radius 1028mm
Angle 22½° 16 per circle



Right Hand Turnout
ST-U750 UNIFROG
Length: 394mm
Radius:1028mm (40½")
Angle: 22½°

Left Hand Turnout
ST-U751 UNIFROG
Length: 394mm
Radius: 1028mm (40½")
Angle: 22½°



ST-701 O Setrack
2nd Radius Starter Set
Contents

6 x Straight *(ST-700)*

1 x Powered Straight *(ST-702)*

2 x 2nd Radius Curve *(ST-725)*

1 x Right Hand Turnout Unifrog *(ST-U750)*

1 x Left Hand Turnout Unifrog *(ST-U751)*

4 x Rail-built Buffer Stop *(SL-740BH)*

1 x Your Guide to O Gauge Railway Modelling *(PM-208)*

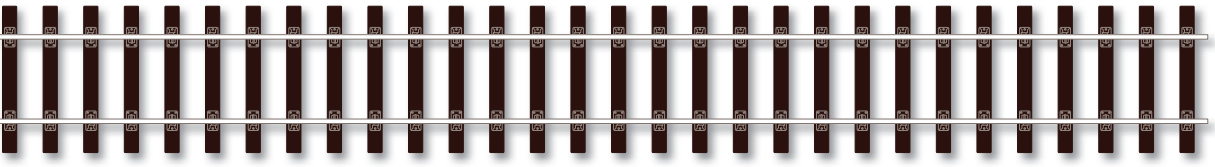
PECO Streamline O Gauge Code 124

with bullhead profile rail

Peco Streamline Bullhead O Gauge track has set unsurpassed standards for 7mm scale realism. Superbly detailed, its 'wood grain' ties are the correct scale width and have integrally moulded scale chairs with square headed fixing bolts and wooden keys.

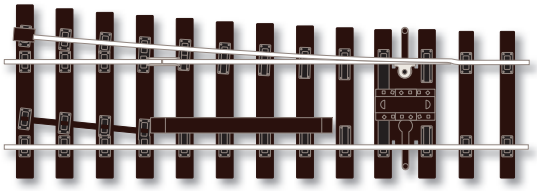
The solid nickel silver rail has been precisely manufactured to the correct classic bullhead section and check rails are machined from solid rail.

Despite its superb scale appearance, Streamline O Gauge Bullhead track is sufficiently robust to be equally suited for use outside on garden layouts as it is indoors.

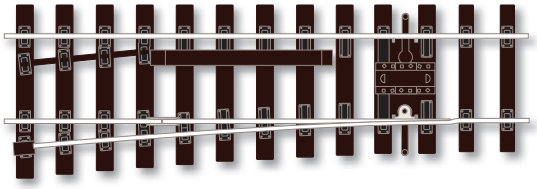


Flexible Track
SL-700BH (Wooden tie type)
Length: 914mm

SL-713

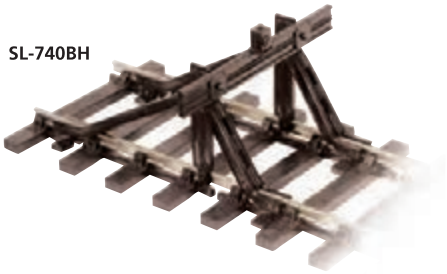


Derails
INSULFROG
SL-784BH Right hand
SL-785BH Left hand
Length: 210mm

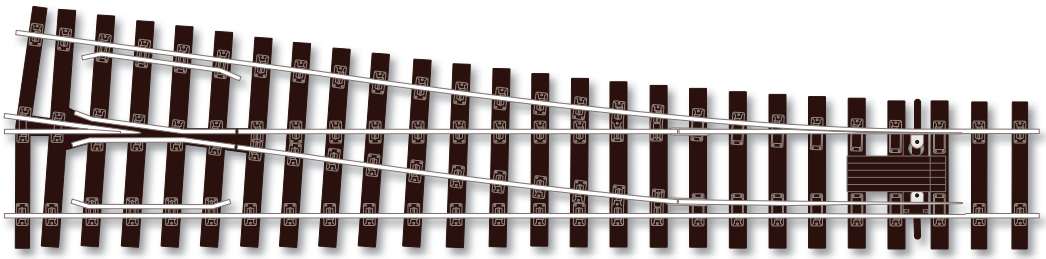


Transition Track
SL-713 Provides a smooth transition between bullhead and flat bottom sections.

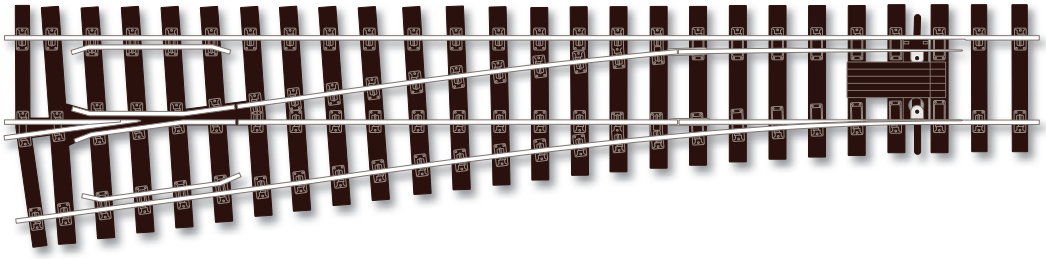
SL-740BH



Rail-built Bumper
SL-740BH Super detailed plastic model of a standard British Railways design.



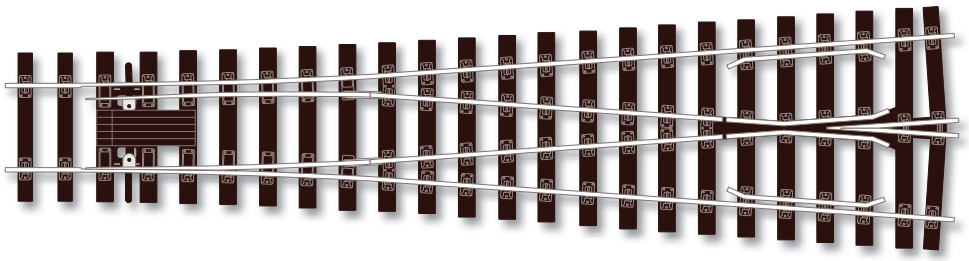
Medium Radius Turnout
ELECTROFROG
SL-E791BH Right hand
SL-E792BH Left hand
Length: 416mm
Radius: 1828mm
Angle: 8°



Medium Radius Wye Turnout

ELECTROFROG

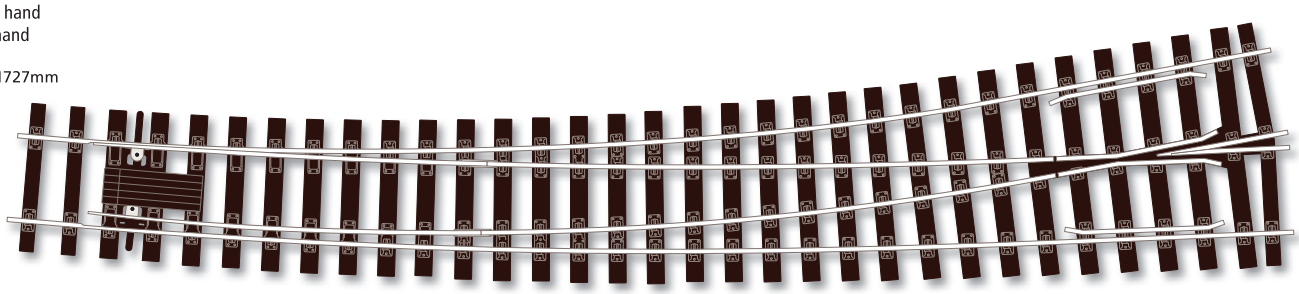
SL-E797BH
Length: 382mm
Radius: 1828mm
Angle: 8˚



Curved Turnout

ELECTROFROG

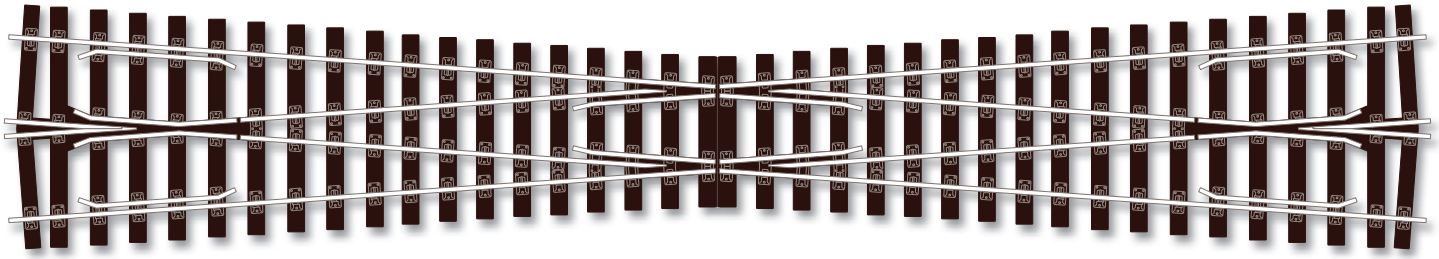
SL-E786BH Right hand
SL-E787BH Left hand
Length: 516mm
Radii: 3098mm & 1727mm
Angle: 8˚



Long Crossing

ELECTROFROG

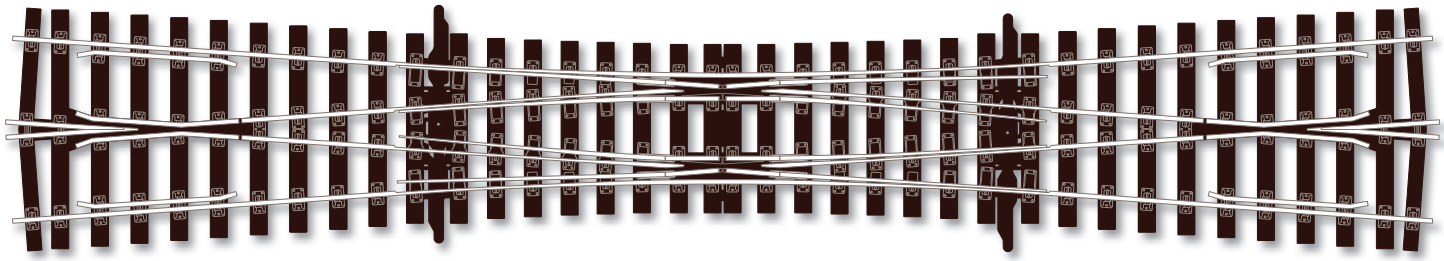
SL-E794BH
Length: 573mm
Angle: 8˚



Double Slip

ELECTROFROG

SL-E790BH
Length: 573mm
Angle: 8˚



Fixing Nails

IL-11 Non-rusting brass nails for fixing track, suitable for outdoors.

Cosmetic Fishplates

IL-717 Plastic fishplates applied to rail sides with glue when joining Code 124 BH to Code 143 FB track.

Rail Joiners

SL-10 Nickel Silver, 24 per pack.
SL-11 Insulating, 12 per pack.

Microswitch

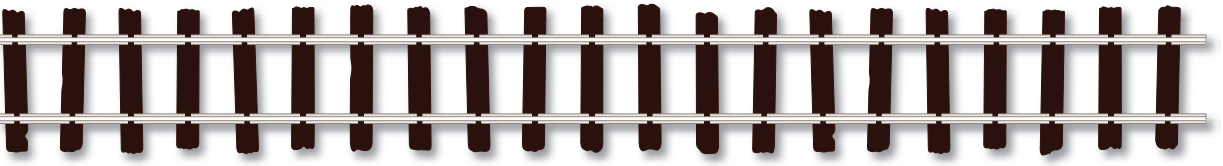
PL-33 Enclosed type.
Fits into recess at tiebar end for self-contained frog polarity switching.

PECO Streamline On30 Code 100

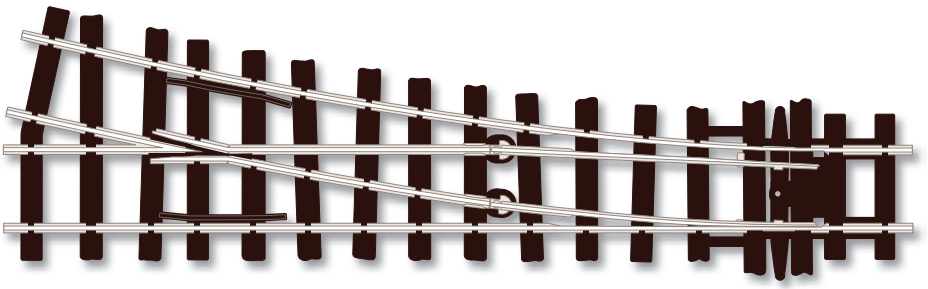
Narrow gauge track system

16.5mm gauge track at ¼in/ft scale gives an equivalent prototype gauge close to 30in. Many modelers find that this scale/gauge allows an ideal combination of scale detail in a relatively small space.

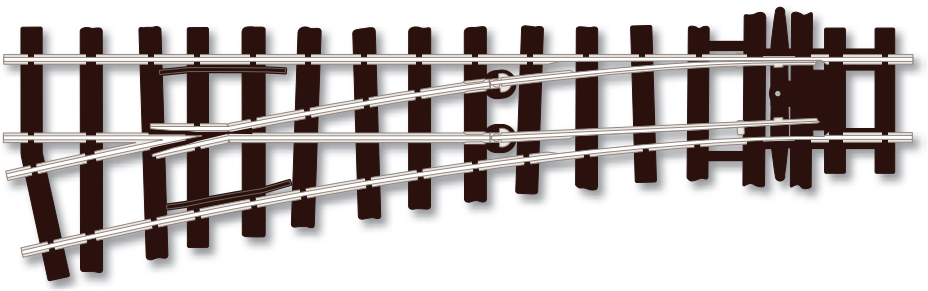
Known as O-16.5 in Britain, where at 7mm/ft scale it is the equivalent prototype gauge of 2ft. 4ins, making it a popular choice for modeling the famous narrow gauge railways in Wales or the Lynton and Barnstaple in Devon.

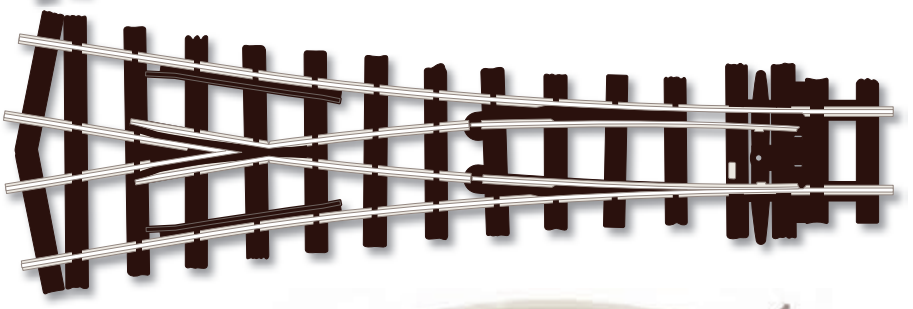


Flexible Track: Wooden Tie Type
SL-500
Length: 914mm



Medium Radius Turnout
ELECTROFROG
SL-E595 Right hand
SL-E596 Left hand
Length: 201mm
Radius: 610mm
Angle: 12°





Medium Radius Wye Turnout
ELECTROFROG
SL-E597
Length: 197mm
Radius: 914mm
Angle: 22°

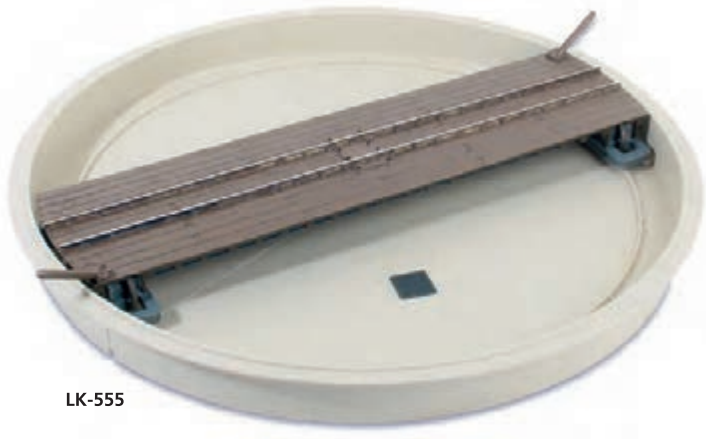
Rail Nails
IL-11
Brass, for fixing track and many other uses.

IL-20/21

IL-13

SL-501

Sleepering
SL-501 Moulded plastic strip sleeper enables the creation of additional types of turnout from HO Streamline units.



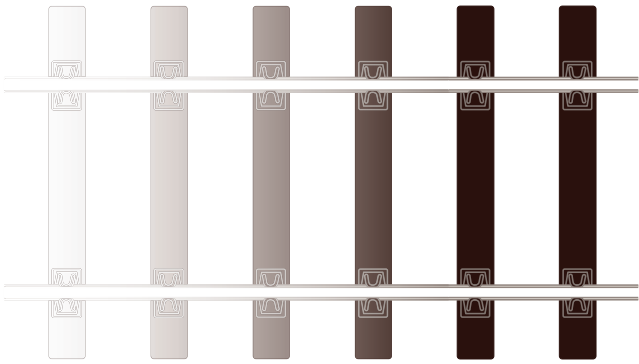
LK-555

Turntable Kit
LK-555 Based on a hand operated American prototype.
Deck: 305mm long
Overall dia: 327mm
Cutout: 309mm dia
Minimum clearance required below baseboard: 31mm

Rail Spikes
IL-13 Build authentic spiked track with these square section non-turning steel spikes.

Fishplates
IL-20 For flat bottom rail.
IL-21 for bullhead rail.
Length: 6.5mm

PECO Streamline
Gauge 1 Code 200



There's no doubt about it – Gauge One is big, with a scale of 1:30 or thereabouts*. Large enough to accommodate genuinely different forms of traction as alternatives to electricity supplied through the tracks.

G1 locos have been built powered by steam, self-contained battery-electric or internal combustion, either allowed to 'run free' or under radio control.

Indoor scenic layouts are not unknown, but for many enthusiasts nothing comes closer to the real thing than the sight of Gauge 1 live steam hauling trains through the great outdoors.

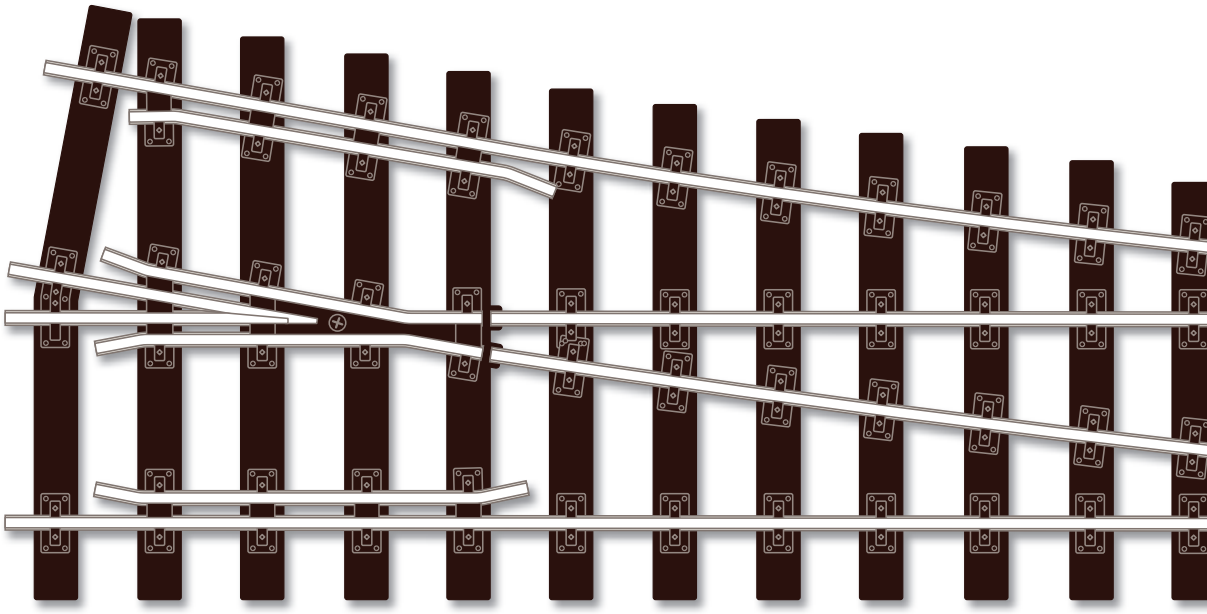
* Most Gauge 1 models are built to either 10mm/ft or 3/8in/ft.

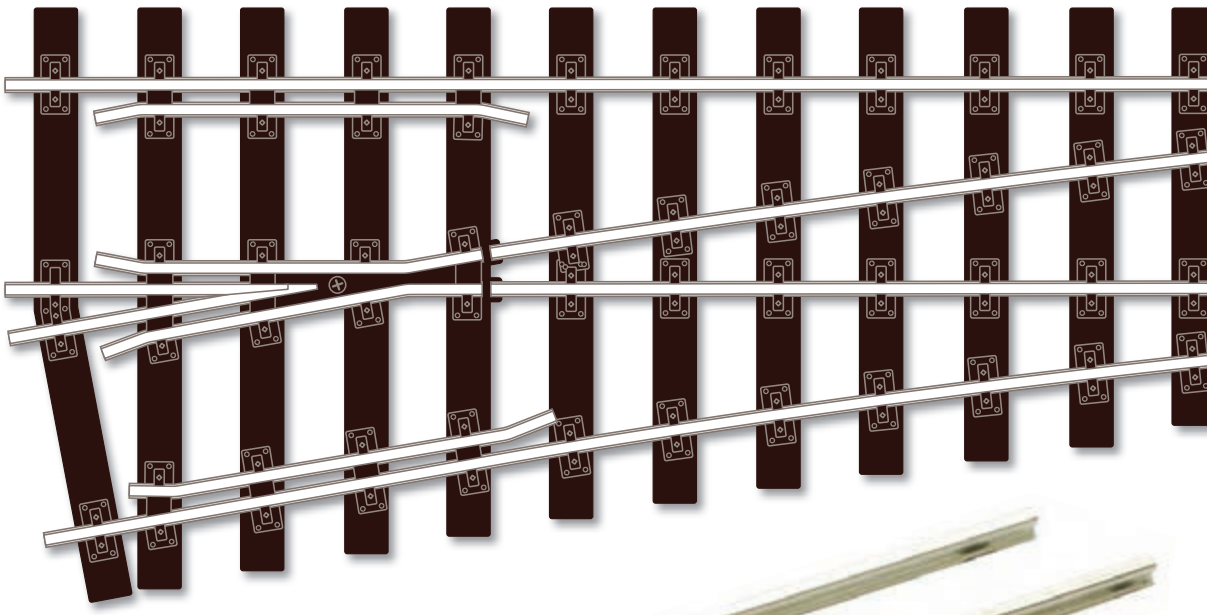
Medium Radius Turnout

ELECTROFROG

SL-E895 Right hand
SL-E896 Left hand
Length: 612mm
Radius: 3048mm
Angle: 10°

For electric powered locomotives the frog can be switched by inserting a PL-33 Microswitch (available separately, see below) under the tie bar cover.





Components

Microswitch

PL-33 fits neatly into a recess at the tie-bar end for changing the turnout frog polarity.

Gauge 1 Rail

IL-8 Code 200 Bullhead nickel silver.
6 x 914mm lengths

Turnout Blades

SL-808 Machined from solid Code 200 nickel silver rail.

Frog & Wing Rails

SL-806 Machined from solid Code 200 nickel silver rail.

Rail Joiners

SL-810 Nickel Silver Conducting, 24 per pack.

Running Rail Chairs

SL-802 Injection moulded, approx 100.

Slide Rail Chairs

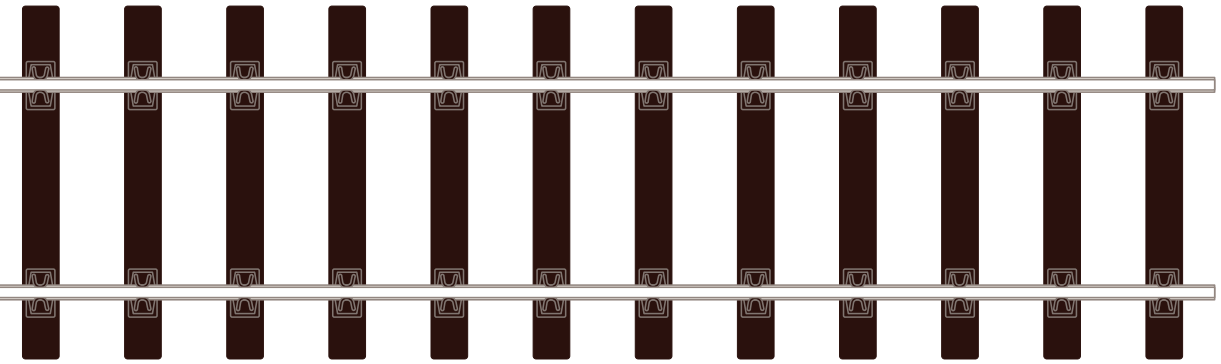
SL-803 Injection moulded, approx 50.

Tie Stock

SL-801 Injection moulded with wood grain detail.
15 x 177mm lengths

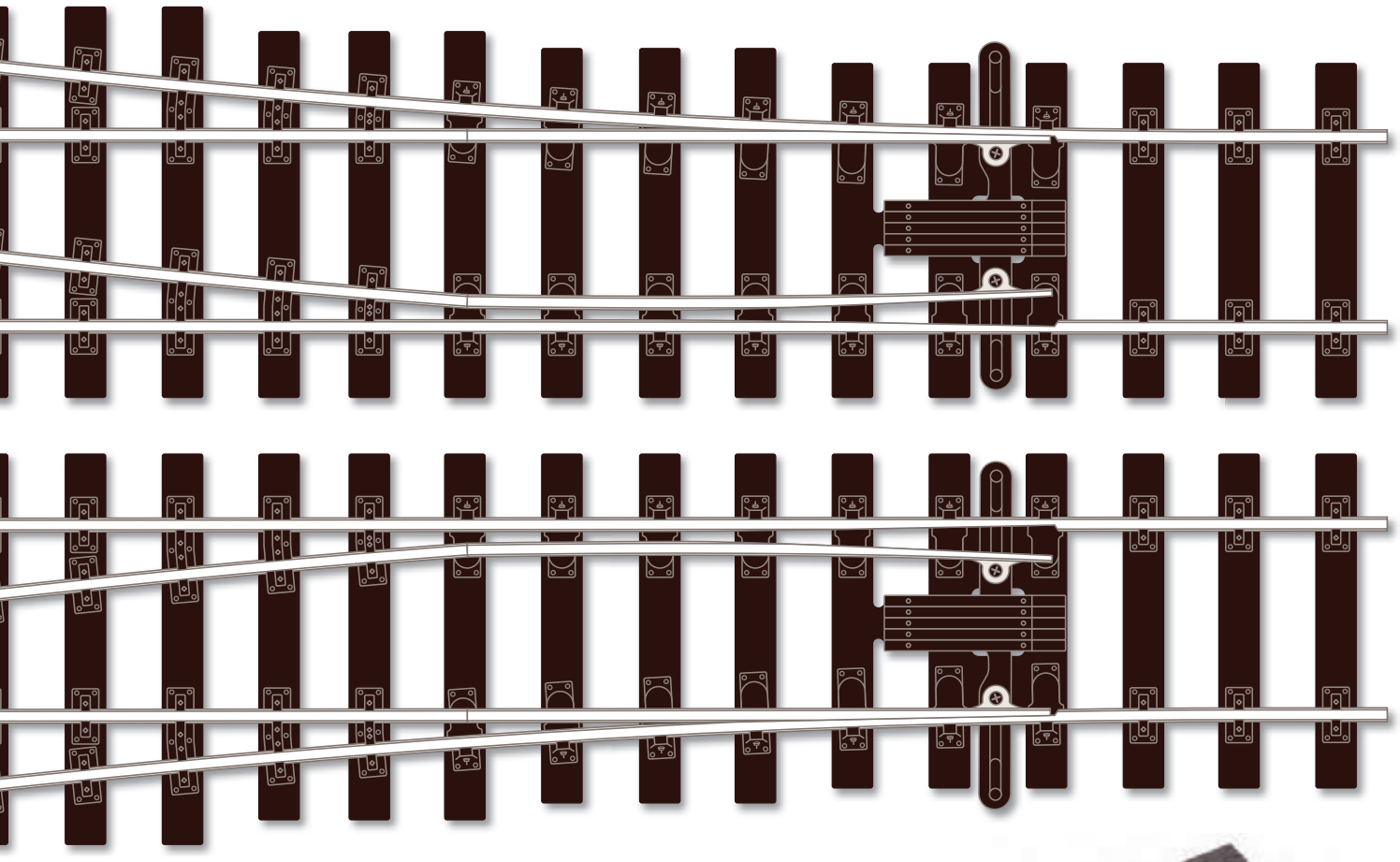
PL-33

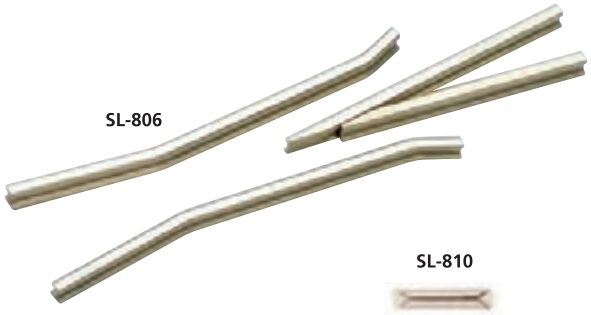
SL-808



Flexible Track

SL-800 (Wooden tie type)
Length: 914mm





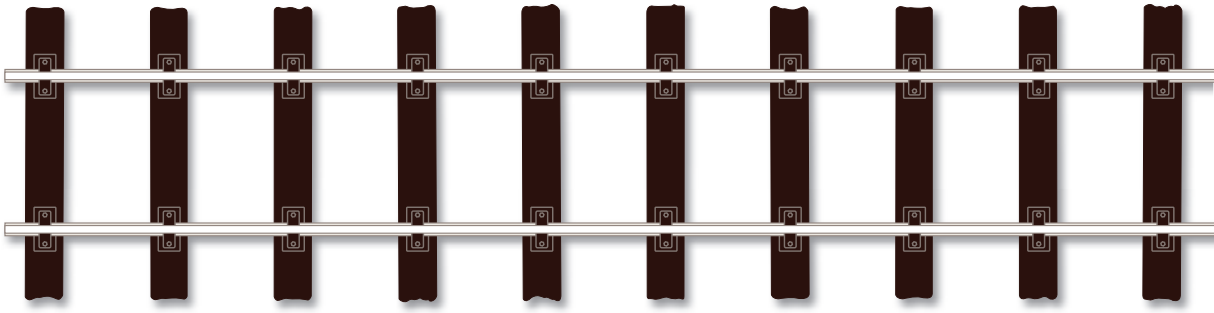
PECO Streamline G-45 Code 250

For large scale narrow gauge models running on 45mm gauge track.

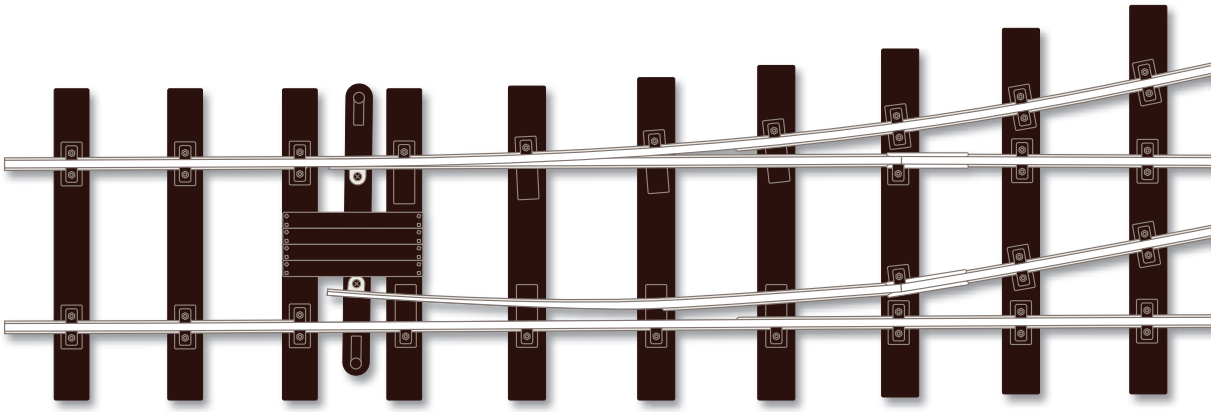
Just as with SM-32, Peco G-45 track is suitable for electrically powered models or radio controlled live steam trains. The robust construction also makes it equally at home for use both indoors and outside whilst the new Setrack items are ideal for temporary tracks laid out on the terrace.

There's no single definitive scale for G-45 but two which are commonly used are 1:22.5 (for meter gauge) or 1:24 (for 3ft 6ins). These small variations do not appear to worry G-45 enthusiasts unduly – while you're busy enjoying the sight of a train running around a full size garden, those small differences in model scales seem to lose some of their importance.

Flexible Track
SL-900 (Wooden tie type)
Length: 914mm



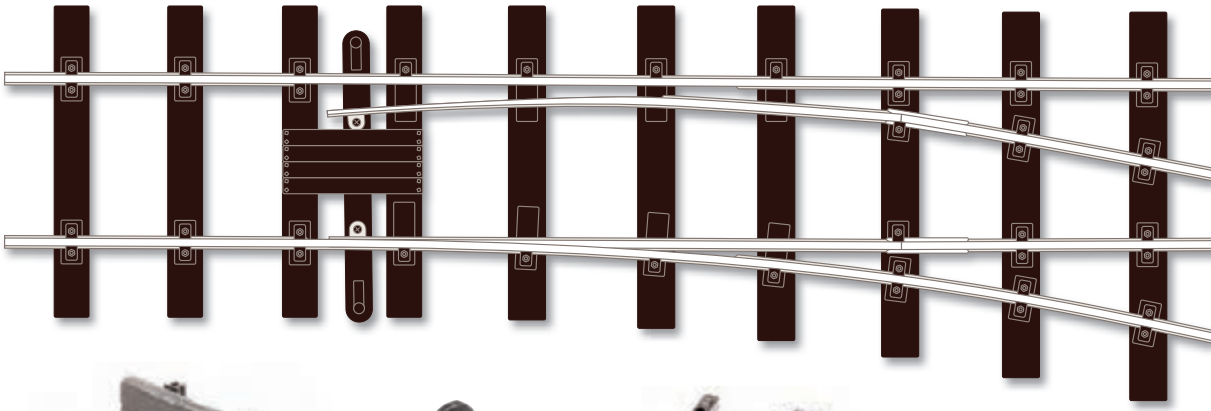
Medium Radius Turnout
INSULFROG
SL-995 Right hand
SL-996 Left hand
Length: 600mm
Radius: 1219mm
Angle: 12°



Bumper Kit
SL-940
Simple assembly.
Fits both Streamline and Setrack G-45 track.

Large Scale Switch Lever Kit
SL-928
Suitable for all scales from gauge O to G-45. Optional extension bar included.

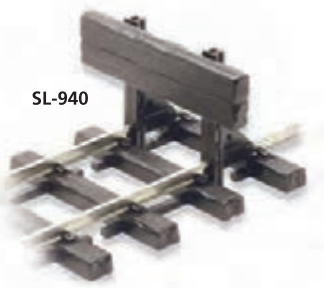
Mounting Plate
PL-8
Enables an LGB™ motor to be fitted to a Peco Turnout.

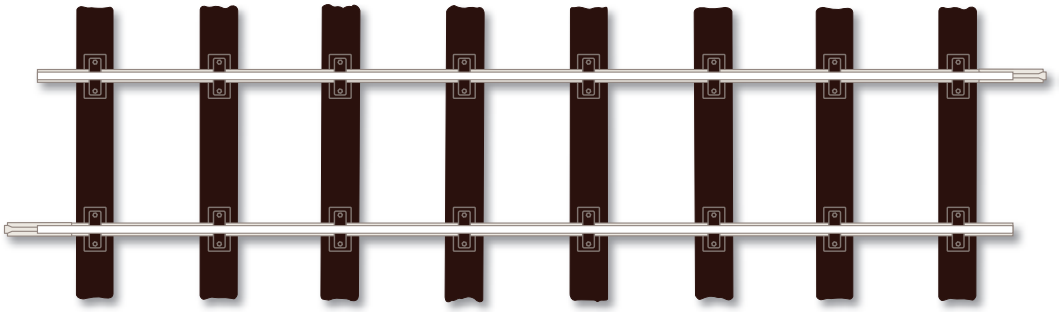


Conducting Rail Joiners
SL-910 Nickel Silver
SL-910A Aluminum Silver
for Peco Code 250 track

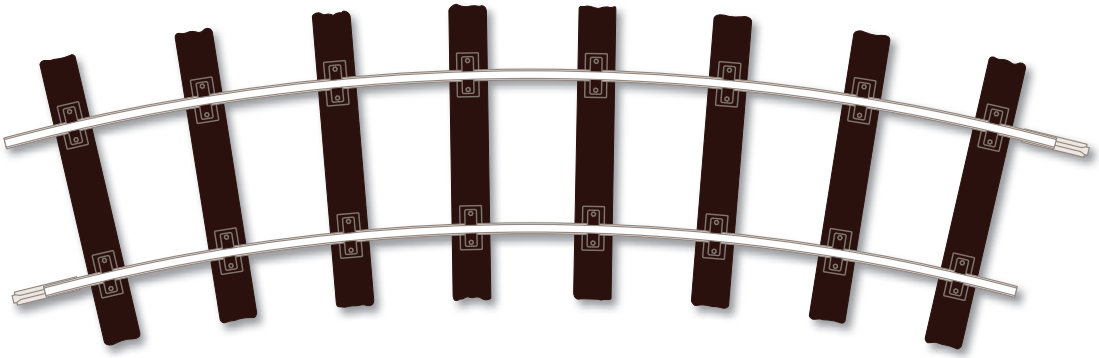
Insulating Rail Joiners
SL-911 Plastic
for Peco Code 250 track.

Dual Rail Joiners
SL-912
For joining Peco Code 250 rail to other rail profiles. Plastic, with optional metal inserts, 6 per pack.

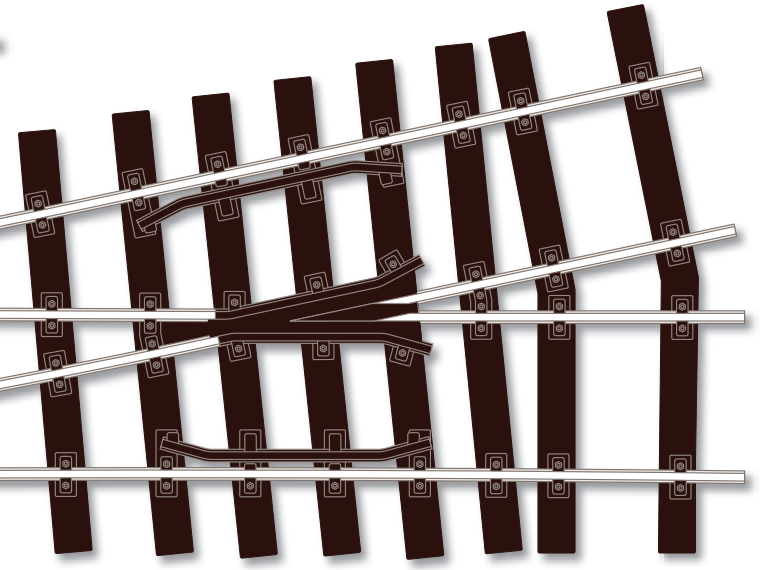


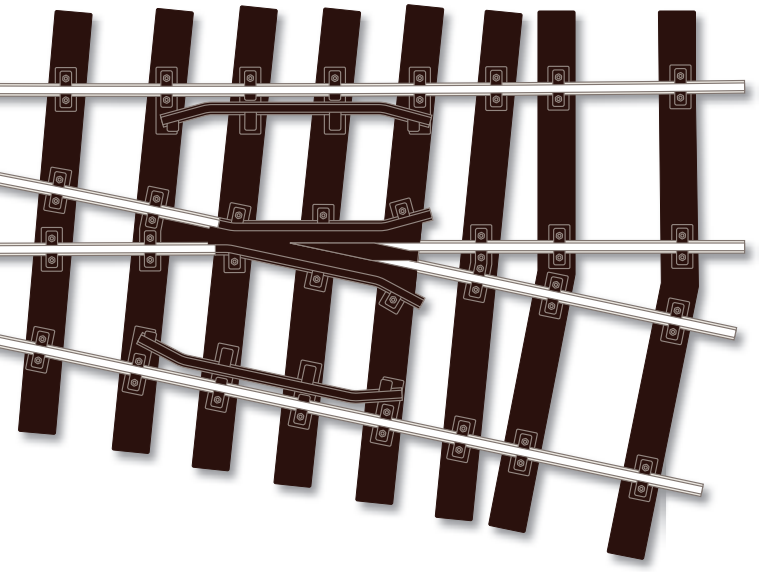


SETRACK
Standard Straight
ST-902
Length: 300mm



SETRACK
Standard Curve
ST-905
Radius: 600mm
Angle: 30°, 12 per circle

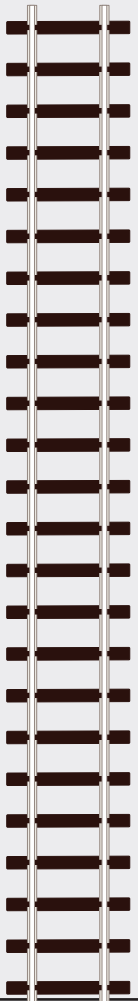




Individulay parts are available for those who wish to construct their own pointwork, see page 48.

meanwhile at the other extreme …

PECO Streamline
Z Gauge Code 60



With a gauge of just 6.5mm and a model scale of 1.5mm/1ft, this is currently the smallest practical size for building a working model railroad.
If you want to model big landscapes where the trains are dwarfed by the scenery, and yet keep it to a manageable size, Z Gauge could be the answer.

Flexible Track

SL-200 (Wooden sleeper type)
Length: 610mm

SL-201 (Wooden sleeper type)
Length: 914mm

PECO Lectrics
Puts you in control

There's nothing more satisfying than running your whole model empire yourself. From the control of traction supply current via section switches to the control of points and signals, Peco Lectrics is a line of robust and easily understood components which allows you to design exactly the control system that suits you and your railroad.

And because you design and wire it all yourself as your layout grows, you end up with a system that you understand and can therefore expand and maintain yourself.

Now available

Twistlock Turnout Motor

The PECO Lectrics Twistlock Turnout Motor combines sound and reliable technology with an innovative new way of installation. We believe that this will be the easiest turnout motor installation you'll ever find.

Twistlock Turnout Motor PL-1000

The standard 'Twistock' electric solenoid for operating (in the main) turnouts.

It is powered by a normal 16vAC supply (and can take up to 3 amps) and is fully compatible with all Peco turnouts up to O gauge (and can handle many other proprietary brands too). Designed to avoid the soldering of wires to terminals, and the cutting of large holes in baseboards

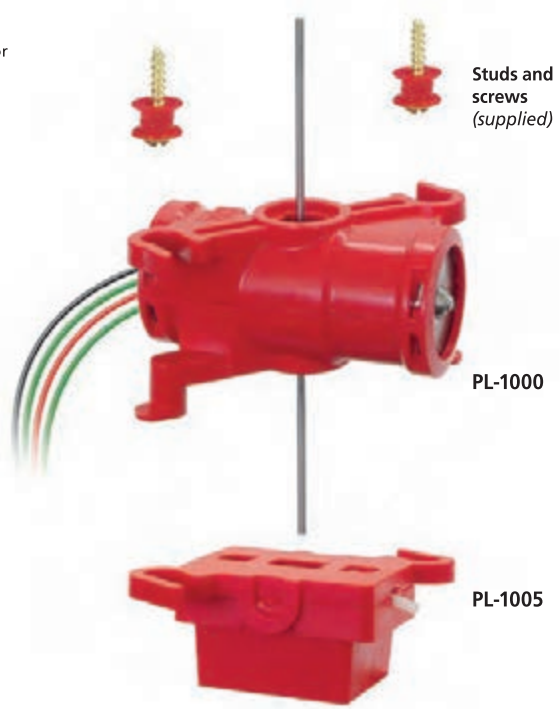
Under baseboard clearance: 50x50x50mm.

Twistlock Turnout Microswitch PL-1005

For use with the PL-1000 for the option to switch polarities, or the operate signals or panel lights etc. Simply twist it onto the Twistlock point motor.

Twistlock Turnout Motor and Microswitch PL-1001

Pack containing both the above items. Requires a 16vAc power supply.



Studs and screws *(supplied)*

PL-1000

PL-1005

TWISTLOCK™

See a video tutorial on our **Youtube channel** Search for Peco Model Railways

- **Powerful** – 16vAC solenoid turnout motor, max. 3 amps
- **Compatible** – with all PECO (and other manufacturers') turnouts up to O gauge.
- **Over and over again** – Can be removed and re-fitted repeatedly and still be in perfect alignment each time!
- **Neat and tidy** – no need to cut large rectangular holes in the baseboard.
- **Invisible** – virtually invisible on the surface.
- **Easier for access** – no need to work upside down in the darkness under the layout.
- **No soldering** – pre-wired.
- **Long reach** – drive pin long enough to reach through baseboards up to 15mm thick.
- **Switch polarity the easy way** twin microswitch attachment twist-locks to the motor – supplied separately (PL-1005) or included with PL-1001.
- **On top** – surface mounting option also available – special mount available (PL-1006).

Turnout Motors

The PL series of motors is tried and tested, over the last forty years we have sold literally millions of these motors. Simple, reliable and good value.

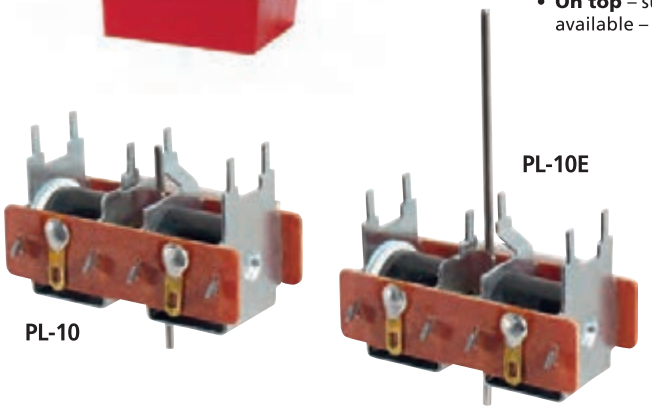
They are the heart of any layout operating system.

Standard Motor PL-10

Requires a rectangular hole 40mm x 24mm when clipped directly to the underside of a PECO Turnout.

Motor with Extended Operating Pin PL-10E

Use with the PL-9 Mounting Plate.

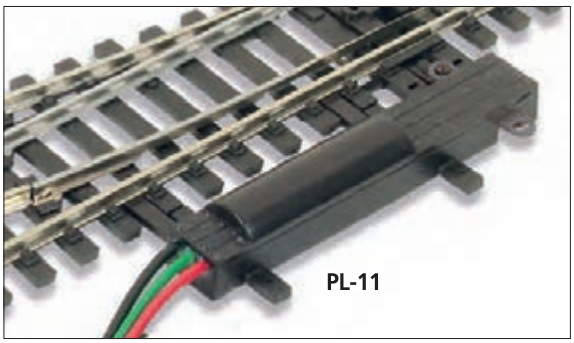


PL-10

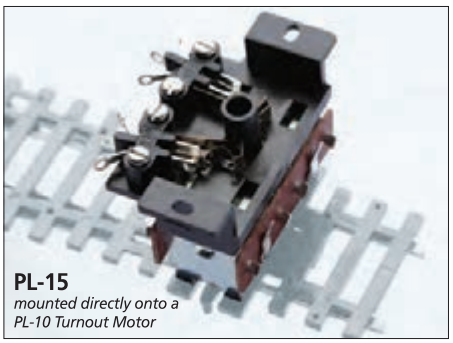
PL-10E

Side Mounted Turnout Motor PL-11

Clips directly into a Setrack HO Code 100 turnout. No holes to drill. Suitable L or R turnouts. Can also be used to operate HO Streamline turnouts.



PL-11



PL-15
mounted directly onto a PL-10 Turnout Motor

Lever Type Switches

A range of switches all designed to fit into the Switch Console and Turnout Switch Module.

Single Pole On-Off PL-22

Simple on and off switch.

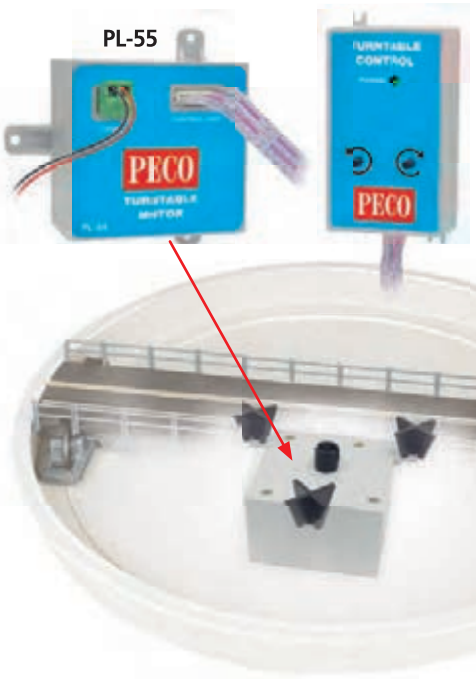
Single Pole Changeover PL-23

Use this to switch current from one device to another.

Passing Contact Changeover

Red Lever **PL-26R** Yellow Lever **PL-26Y**
Black Lever **PL-26B** White Lever **PL-26W**
Provides short burst of current required to operate the PL-10 Turnout Motor.

PL-22 PL-23 PL-26B PL-26R PL-26W PL-26Y




PL-13

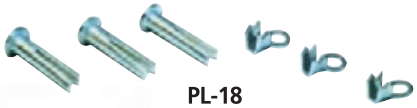

PL-20


PL-32


PL-33


PL-21

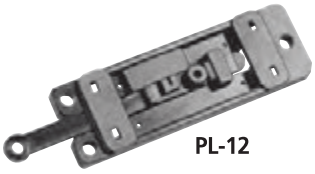

PL-17


PL-18


PL-9


PL-27


PL-28


PL-12

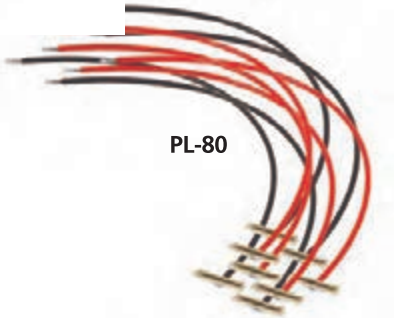

PL-19


PL-51


PL-50


PL-24


PL-35


PL-80

Turntable Motor PL-55

Compatible with all Peco turntable kits. Simple push button control, can easily be retro-fitted to previously installed Peco turntables.

DC or DCC operation, 12vDC motor, pre-set with 24 x 15 degree stopping points. In addition to the depth of the turntable well an additional under-baseboard clearance area of 70mm deep x 80mm x 80mm is required.

Requires 12vDC, 2 amps minimum supply.

Accessory Switches

Accessory Switch PL-13

Attaches with contact adhesive directly onto a PL-10 series Turnout Motor.

Twin Microswitch PL-15

(Opposite page) Also fits directly to Turnout Motor PL-10. With two single pole changeover microswitches. Rated at 2 amps (continuous) or 2.5 amps (momentary).

Track Isolating Switch PL-20

Clip either side of an insulation gap on Peco Streamline HO track.

Microswitch Open Type PL-32

As included in the PL-15 unit, available separately.

Microswitch Closed Type PL-33

Rated 16v at 2 amps (continuous) or 2.5 amps (momentary).

4-Pole Double Throw Switch PL-21

Toggle switch, essential when using the N Gauge SL-E383F Double Crossover.

Probe Studs and Washers

Probe PL-17

Studs and Tag Washers PL-18

A simple yet effective method of switching turnouts.

Fittings and Adaptors

Switch Console PL-27

Six bay panel, expand as required.

Switch Mounting Plate PL-28

Useful for mounting your lever switches into a mimic diagram or homemade panel.

Motor Mounting Plate PL-9

Base unit for use with the PL-10E Motor. Fixing screws and full instructions included.

Motor Adaptor Base PL-12

Supplied with over-center spring and extension link. Also available as pack of 2, unassembled without spring as PL-12X.

Joining Bar PL-24

Allows adjacent switches to be ganged together and operated simultaneously.

Microswitch Housing PL-19

Plugs directly into the Gauge O SL-E790BH Double Slip. Recommended microswitch PL-33 *(not included)*

Switch Module Unit PL-50

Enables switches to be connected without any need for soldering.

Switch Module Extension PL-51

Allows PL-50 module to be extended to any size required.

Power Supply

Capacitor Discharge Unit PL-35

Use with all solenoid type motors PL-10/PL-11 etc. Connect to the 16v ac supply on your transformer. Unit capacitor stores up power and discharges a 'kick' to ensure turnout blades 'snap over' every time

Wiring etc.

Powerfeed Joiners, 3 sizes:
PL-80 (for Code 100/124 rail)
PL-81 (for Code 83/75/70 rail)
PL-82 (for Code 55/80 rail)
204mm long track feed wires ready soldered to rail joiners. Quick and easy to use, avoids the risk of damage to ties from soldering irons. 4 pairs per pack.

Connecting Wire

16/0.2mm 3amp. Length: 7m

Black **PL-38BK** Yellow **PL-38Y**

Red **PL-38R** Green **PL-38G**

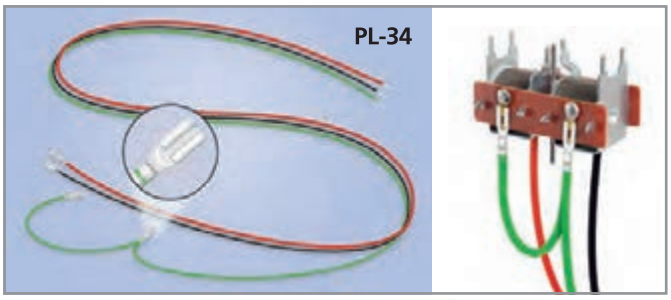
Blue **PL-38B**

The vital link. Your model railway will be so much easier to extend and maintain if you adopt some sort of color coding for the wiring.

PL-38BK PL-38Y PL-38R PL-38B PL-38G

Wiring Loom PL-34

Makes wiring the PL-10 Series Motors quick and easy. Just a simple push fit onto the motor terminals, while other ends are tinned and ready for a Screw Terminal Block. No soldering required.



Screw Terminal Block PL-39

Invaluable wiring aid – no soldering required. Two strips of 12 blocks, easily cut with a craft knife into smaller units.

PL-39

Push-on Terminal Connectors and Shrouds PL-31

Easy to use, no soldering required. These connectors make modification and fault-finding so much easier than soldered wiring. Pack contains 10 Connectors and 5 Shrouds.

PL-31

Cable Clips PL-37

Keep your wiring tidy. With these self adhesive clips you can avoid banging nails into the baseboard and disturbing finely modeled detail. Pack of 20 clips.

PL-37

SmartSwitch™

Digitally-controlled Servo System for operating turnouts and other accessories

SmartSwitch introduces a whole new method of creating movement on your railroad. From operating point blades to animating lineside features such as crossing barriers, the Smartswitch range of servo motors and control modules makes precise control simple. They can be used either on both DC systems or, by adding the Stationary Decoder module, installed on a fully DCC-controlled model railroad.

SmartSwitch Set PLS-100

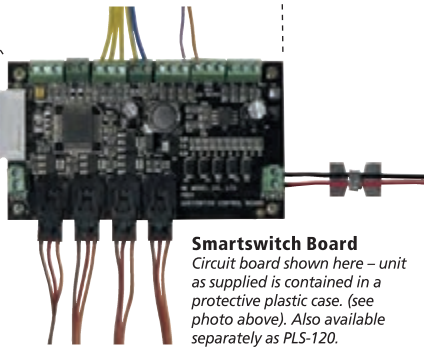
Comprises the following:

- **SmartSwitch Board**, the brains of the system.
- **Programming Board** – used to set both the speed and the amount of rotational movement required at the servo.
- **4 Servo Motors** – including all brackets, fixings and template stickers for positioning.
- **4 Toggle Switches**.
- **4 Cables** *(2 x 1m, 2 x 0.5m)* – with plug-in sockets.
- Easy-to-follow **Manual**.

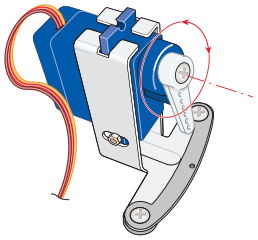
Setting up is simple as all connections to the SmartSwitch board simply plug together or attach to screw terminal blocks, no soldering required. Programming is easy and full instructions are included with each set.

SmartSwitch Set PLS-100

Programming Board
Not available separately



Smartswitch Board
Circuit board shown here – unit as supplied is contained in a protective plastic case. (see photo above). Also available separately as PLS-120.



Servo Motor (x4)
plus all necessary brackets, fittings, screws etc.
Also available separately as Single Servo Motor PLS-125.

4 Cables with Plugs Fitted
(2 x 1m, 2 x 0.5m)

Extra Parts Available Separately

Smartswitch Board PLS-120

Board can control 4 servos (also available separately), and enables the system to be expanded to suit any sized layout. Each control board needs its own 12vDC supply.

Single Servo Motor PLS-125

Can easily be fitted above or below the baseboard to operate turnouts or other accessories such as signals, gates etc.

Cable Extension PLS-140

2 x 1m. cables. Two packs required when extending your system with an extra Smartswitch Board and four extra Servos.

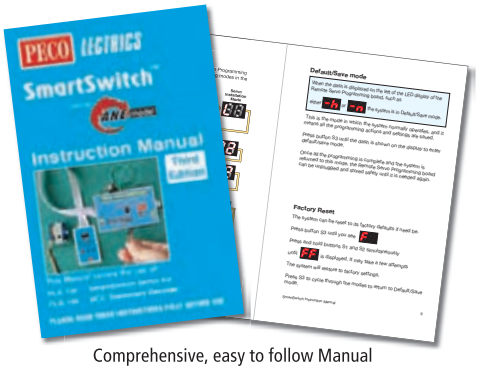
Extended Function Modules

Smartfrog PLS-130

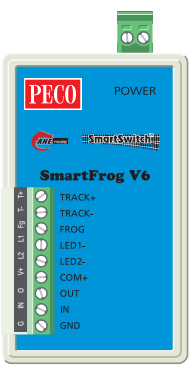
This module will change the polarity of a live frog when the servo moves the blades. One Smartfrog required for each Electrofrog. Module requires a separate 12VDC power source.
Other functions include switching LEDs on a control panel to indicate the status of each turnout, or operating 2-aspect signalling.

Stationary Decoder PLS-135

Makes it possible for SmartSwitch to be operated by a DCC controller. Easy to program and compatible with most brands of DCC control systems.



Comprehensive, easy to follow Manual



Smartfrog PLS-130

Stationary Decoder PLS-135

PECO Maintenance and Tools

Your railroad will run better and locomotives stay in good working order longer if you do some routine maintenance now and then, mostly simple cleaning and some light lubrication. Little and often is the best maxim if you want to avoid breakdowns and excessive wear.


PL-42


PL-43

PL-41

PL-70

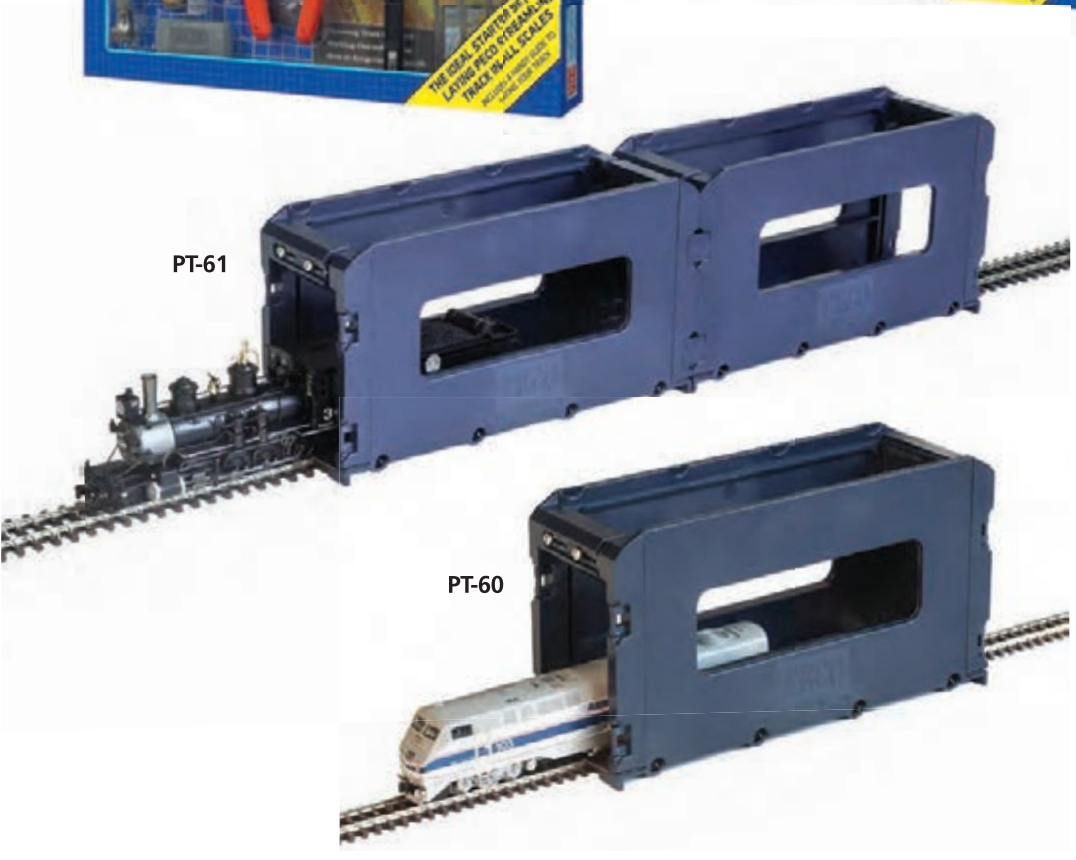

PL-71


PL-64


SL-37

PT-200

PT-100



Servicing Kit PL-71

Look after your models with this extremely useful kit, one handy pack containing all you need for basic cleaning and lubrication.

Kit includes PowerLube, Wheel Cleaning Brush, Scraper set and Locomotive Servicing Cradle. All items are available separately. Simply connect the wires from the brush and scraper directly to a 12v power source and apply them to the driving wheels, one each side.

Suitable for HO, N and many narrow gauge locos. Included are several pieces of rigid foam plastic to adjust the cradle size.

The soft foam will not harm fine detail or paintwork.

Locomotive Servicing Cradle PL-70

Foam cradle, included in PL-71.

Wheel Cleaning Brush PL-42

As found in PL-71 Servicing Kit.

Wheel Cleaning Scraper PL-43

As found in PL-71 Servicing Kit.

Power Lube PL-64

As found in PL-71 Servicing Kit. Pick-up and other electrical problems solved with Peco Power-Lube, lubricant/cleaner. Can be used with most plastics.

Rail Cleaner PL-41

Abrasive rubber block to remove dirt and oxidation from the rail surface. Improves running, particularly at slow speeds.

Re-Railer SL-37

Length 313mm. Makes re-railing locomotives and carriages simple particularly in awkward corners.

Tracklayer's Tool Set PT-100

For beginners and seasoned modelers alike, this set is ideal for laying Peco Streamline track in all scales, and you'll soon find yourself reaching for these good quality tools for other aspects of your railroad modeling.

Includes a handy guide to help you get started.

Kitbuilder's Tool Set PT-200

This collection of tools is carefully compiled to give you a solid start in modeling kits made from plastic, card and wood.

Includes a fully illustrated 'Shows You How' guide to Kit Construction.

If you have a friend or relative who is contemplating taking up the hobby, (and needs a bit of encouragement) these sets make perfect gifts.

Flexi Loco Lift Single PT-60 Double PT-61

The easy and safe way to look after your locos. Drive on and off the track without handling valuable, delicate locos and other rolling stock. Available as a single or double unit, this loco lift is multi-scale suitable for HO, N, HOn3 and HOm scale. Designed to easily clip together so you can extend and stack multiple lifts.

Individulay Components for building track

Rail Packs

Flat Bottom and Bullhead Rail

Correct section rail to prototype profile precision-drawn in solid nickel silver.

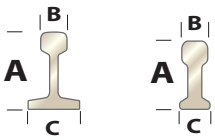
Genuine Peco Rail is supplied wrapped in bundles for protection.

Dimensions listed below refer to the profile diagrams (right).

The code number is derived from the height (A) of the rail in inches.

The wide range of trackage available from Peco will cover most situations but occasionally you may want to include an unusual formation such as the curved half scissors crossing seen here. Individulay components will help you scratchbuild or adapt trackage to suit the situation.

Rail Sections



Bullhead Rail

CODE 124 IL-7BH
6 x 914mm lengths
Matches O Streamline Bullhead
A = 3.15mm (.124in)
B = 1.52mm
C = 1.85mm

CODE 200 IL-8
6 x 914mm lengths
Matches Gauge 1 Streamline and SM-32 Streamline.
A = 5.08mm (.200in)
B = 2.46mm
C = 2.87mm

Flat Bottom Rail

CODE 60 IL-1
6 x 609mm lengths
Matches Z Gauge Streamline and also suitable for 4mm scale conductor rail.
A = 1.57mm (.062in)
B = 0.76mm
C = 1.24mm

CODE 70 IL-70
6 x 914mm lengths
Matches OO/HO Streamline Fine.
A = 1.78mm (.070in)
B = 0.78mm
C = 1.72mm

CODE 75 IL-3
6 x 914mm lengths
Matches OO/HO Streamline Fine.
A = 1.90mm (.075in)
B = 0.78mm
C = 1.72mm

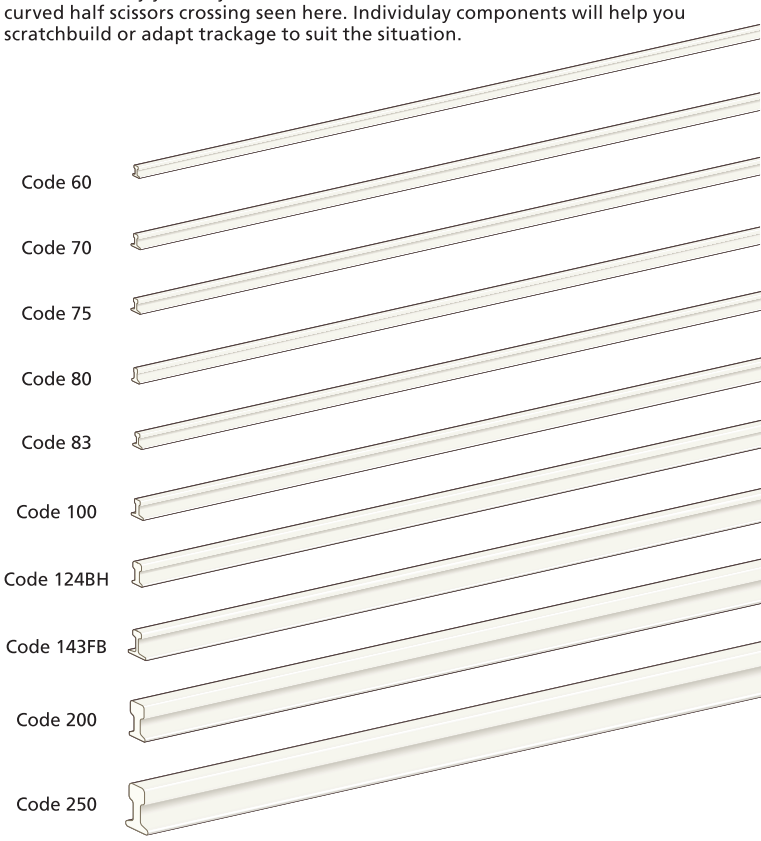
CODE 80 IL-4
6 x 914mm lengths
Matches N Streamline Universal.
A = 2.03mm (.080in)
B = 0.63mm
C = 1.39mm

CODE 83 IL-83
Flat Bottom Rail - matches rail in '83 Line' range.
A = 2.10mm (.083in)
B = 0.78mm
C = 1.72mm

CODE 100 IL-5
6 x 914mm lengths
Matches OO/HO Setrack, OO/HO Streamline Universal and O-16.5 Streamline.
A = 2.5mm (.100in)
B = 1.04mm
C = 2.28mm

CODE 143 IL7BH
6 x 914mm lengths
Matches O Streamline Bullhead
A = 3.63mm (.143in)
B = 1.60mm
C = 3.20mm

CODE 250 IL-9
6 x 914mm lengths
Matches G-45 Streamline.
A = 6.35mm (.250in)
B = 2.79mm
C = 4.06mm



G Scale Track Components

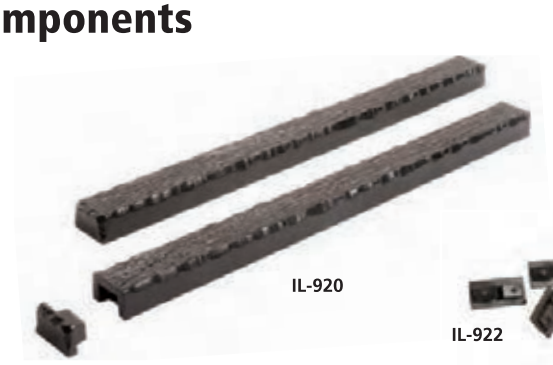
continued from page 42

Wood Grain Ties IL-920
Injection moulded, complete with end caps – fitted after cutting to length.
12 ties plus 24 end caps.

Slide Rail Chairs IL-921
30 injection moulded components.

Running Rail Chairs IL-922
60 injection moulded components.

Frog and Check Rail Kit IL-923
Insulfrog type, one set.



4mm Scale Fine Track Components

Components for building track in 16.5, 18.2 and 18.83 Gauges
Superb components with which to build your own fine track and turnouts to any of the above gauges. The Pandrol™ clips are faithfully reproduced in 4mm scale, complete with Lockspike™ detail. The rail fixings slide onto the nickel silver Code 83 Flat Bottom Profile Rail. Assemble using the Peco 3-way Track Gauge (IL-116) and liquid styrene cement.

Wood type Ties IL-111
Brown moulded plastic (approx. 96) 33.5mm x 3.5mm

Pandrol type Rail Fixings IL-112 (approx. 200)

Slide Rail Fixings IL-113 (approx. 42)

Turnout Tie Stock IL-114
(32) 88mm x 4mm

Rail Spikes IL-13
For fixing down rail, square section, non-turning.

IL-121
Concrete Tie Units
96 ties with 200 separately moulded rail fixings.
32mm x 3.5mm (base), 3mm (top)
Moulded in realistic concrete colour plastic, the rigid six-sleeper units enable straight track to be accurately and easily laid. For curved track simply cut the webs joining the ties on one side.

The separate rail fixings are moulded in brown plastic and slide onto the Code 83 Flat Bottom Rail (IL-83).

Assemble using the Peco 3-way Track Gauge (IL-116) and a liquid styrene cement.

TRACK GAUGE IL-116
Stainless steel for 16.5, 18.2 and 18.83 gauges.

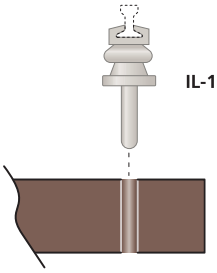
IL-116

Fitting a Third Rail

The conductor rails used for electric train power supply on many urban systems from New York City to San Francisco can be modeled in HO Scale using IL-1 rail and IL-120 conductor rail chairs.

Start by drilling a 0.8mm dia. locating hole in the end of every fifth tie. Slide chairs onto a length of rail and plug into holes, fixing

with a spot of impact adhesive. On the prototype the conductor rail is not continuous as it changes from one side of the track to the other wherever turnouts obstruct its path. In stations it is always on the opposite side of the track to the platform, and there are gaps at vehicle and pedestrian crossing points. These gaps are bridged by the train having multiple shoe collectors and as the train passes through it is accompanied by the sparks and crackle of a DC circuit of several thousand amps alternately breaking and connecting, which serves as a reminder more graphic than any warning sign to keep away from the live rail.



The ends of each conductor rail are sloped down to safely 'catch' the train's pickup shoes. They are connected by thick cables laid on top of the ballast, which can be modeled using normal multi-strand electrical wire.

O Gauge Track Components

Wood Grain Tie Stock IL-714
20 x 175mm lengths

Concrete Ties IL-715
For track using Code 143 rail (x60).

Cosmetic Fishplates IL-717
For use at joints between Code 143 and Code 124 rails (12).

Flat Bottom Turnout Parts

Pandrol™ RAIL FASTENINGS IL-712
100 injection moulded rail clips on baseplates.

Slide Rail Fastenings IL-713
48 moulded baseplates.

Frog, Wing and Check Rails IL-709
1 set machined from Code 143 nickel silver rail.

Point Rails/Brackets IL-710
1 pair machined from Code 143 nickel silver rail.

Code 143 Flat Bottom Rail IL-7FB
Nickel silver
6 x 914mm lengths.

Bullhead Turnout Parts

Running Rail Chairs IL-702
100 injection moulded chairs.

Slide Rail Chairs IL-703
50 injection moulded chairs.

Frog and Wing Rails IL-706
1 set machined from Code 124 nickel silver rail.

Point Rails/Brackets IL-708
1 pair machined from Code 124 nickel silver rail.

Code 124 rail IL-7BH
Nickel silver
6 x 914mm lengths.

HO Trackside

A selection of injection moulded kits

547 Coaling Tower

These towers are an impressive sight and were an essential feature on mainline railroads. They are also ideal for use as a loading hopper in quarries, mines, sand/gravel pits, for sugar beet harvesting etc.
Footprint: 116 x 92mm
Height: 181mm

a **RATIO** kit

547

545 Locomotive Lifting Hoist

Classic heavy steel structure fabricated mainly from rolled steel joists. Although modeled on a prototype hoist found at Plymouth, England, structures like these are seen all over the world.
Footprint: 90 x 62mm

a **RATIO** kit

545

543 Hoist

Simple device used for light lifting work wherever transhipment is required. Also to be found inside freight sheds for unloading wagons. Includes chain.

a **RATIO** kit

543

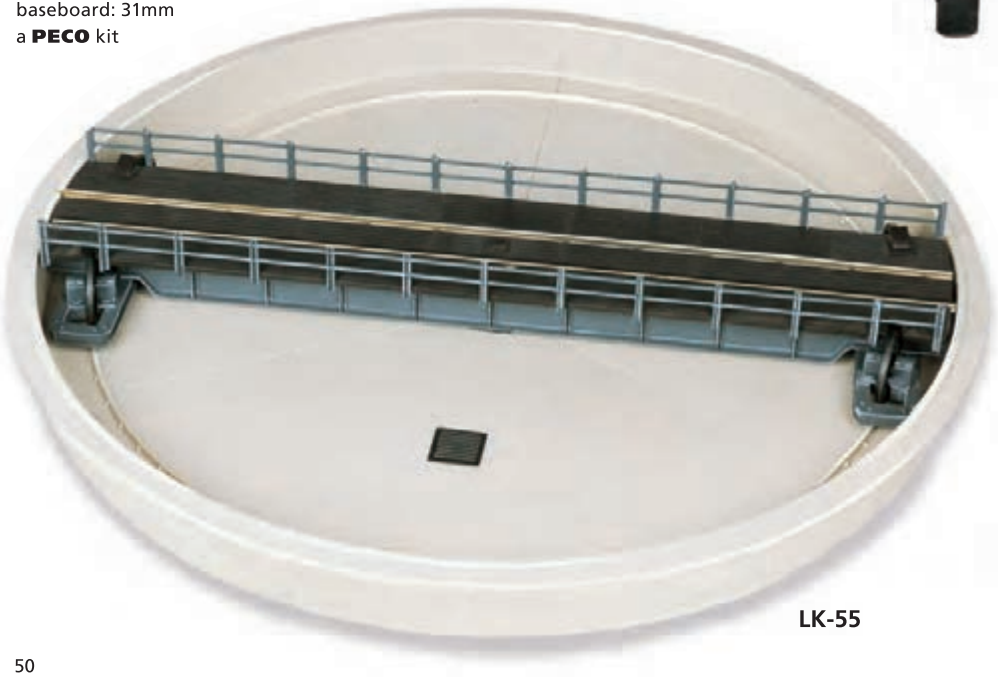
LK-55 Well Type Turntable

This easily assembled kit makes a model of a well type turntable, as found on railroads across the world. The kit contains detailed plastic mouldings, rail and electrical contacts. As supplied the deck is simply rotated by hand, but could be easily mechanized or motorized if preferred, moving parts are moulded in a special low-friction material.
Suitable for use with Universal Code 100 and Fine Code 75 track - special adaptor plates are included in the kit to suit the different rail heights.

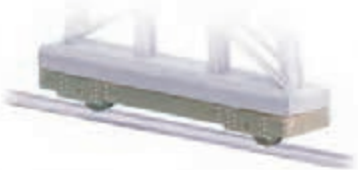
Deck Length: 305mm (12in)
Overall diameter: 327mm

Hole required: 309mm)
Minimum clearance required below baseboard: 31mm

a **PECO** kit



LK-55

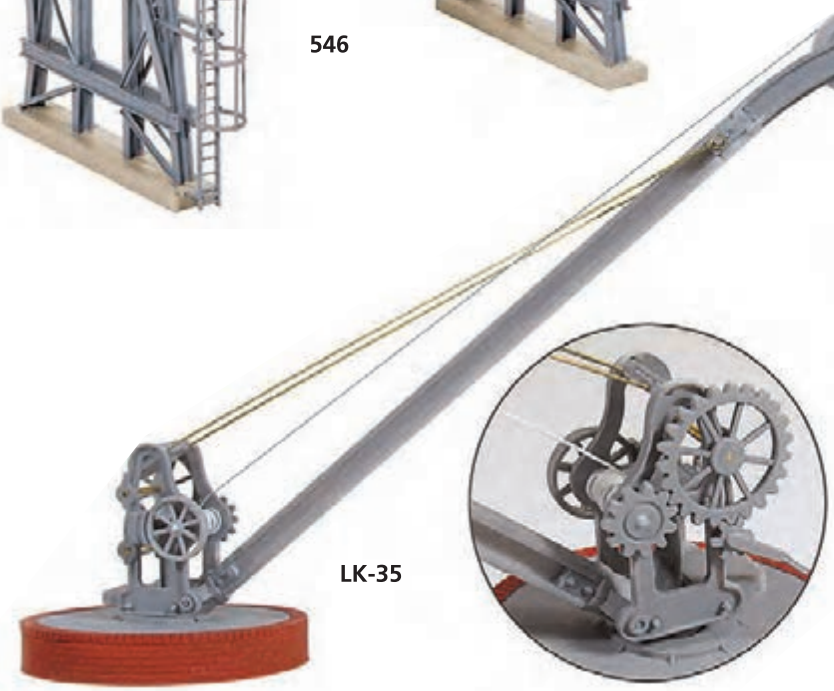


546A Rolling Underframe

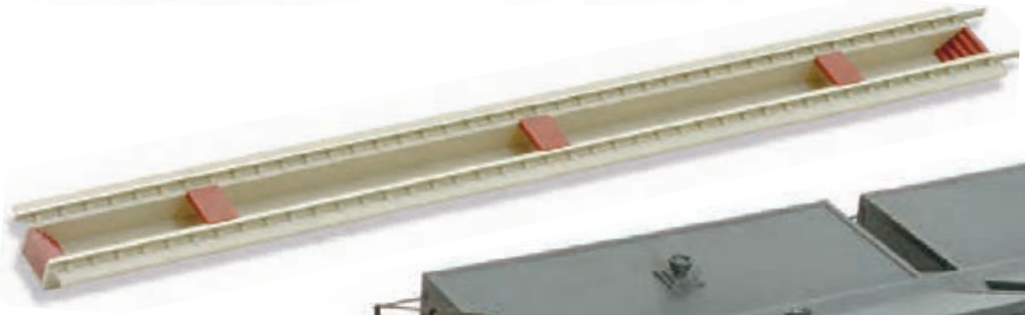
To fit under the Locomotive Lifting Hoist (545) or Overhead Traversing Crane (546) to allow them to run along tracks *(not included)*. The kit makes a pair of rolling underframes.
Length: 61mm

a **RATIO** kit

546



LK-35



LK-56

LK-80

546 Overhead Traversing Crane

From the late 1960s the spread of shipping containers revolutionized the transport of goods. On the railways marshalling yards gave way to intermodal depots as containers are transferred between ships, trains and trucks.
Footprint: Sides 61 x 125mm
Span 153mm

a **RATIO** kit

LK-35 Yard Crane

Base diameter: 50.8mm
Jib length: 146.5mm

Very detailed kit of an essential feature on freight yards or wharves. Can be assembled as a working model if required.

Fully illustrated instructions.

a **PECO** kit

Inspection Pit

LK-56 with Code 100 Rail
LK-156 with Code 75 Rail
LK-8356 with Code 83 Rail
Footprint: 297mm long

Modular design makes it easy to assemble inspection pits of any length. Kit contains six pit mouldings, two pairs of steps and four walkway plates. With several kits you can model the train-length pits seen in modern maintenance sheds.

a **PECO** kit

LK-80 Train Shed Unit

Footprint: 349mm x 168mm

This versatile kit will house a couple of road locomotives or four small switchers. You can join several of these kits end-to-end and/or side-by-side to provide facilities for complete multiple unit trains.

The kit features full height working doors at both ends, pre-painted with high visibility diagonal stripes in yellow and black.

Fully illustrated instructions included covering both assembly and methods of joining kits.

a **PECO** kit

HO Trackside

Overall Roof Kit

LK-20X

Footprints:
Built as a double span:
254mm x 382mm
Built as a longer single span:
508mm x 191mm

A superb kit of fully detailed pre-colored and clear plastic components to form a steel arched, fully glazed overall train shed roof.

This kit can be assembled in a number of ways. There are two lengths of cast iron columns, allowing you to choose whether the canopy is supported from ground level or from the platform, or any combination of the two.

a **PECO** kit

LK-20X

Girder Bridge Sides

Plate Girder Type LK-10

Length: 222mm

Finely detailed injection moulded Plate Girders in a classic curved top design. There are channels for locating the track deck. Any number of pairs can be used to form a viaduct across a river or valley.

a **PECO** kit

LK-10

Truss Girder Type LK-11

Length: 222mm

Superb plastic injection mouldings which include rivet heads detail. These versatile trusses can be used either upright, or underslung. Use alone or in combination with LK-10 units.

a **PECO** kit

LK-11

548 Modular Station Footbridge

With its fine scale iron latticework and curved section roof, this typical footbridge will add interest and a sense of importance to any model station. Versatile kit design means that the stairs can be assembled in either direction or off the end of the bridge. Additional kits can be used to create multiple spans, whilst larger, busy stations often had two stairways to each platform, leading off in both directions. Could also be used without the roof sections at a large terminus under an overall station canopy. The possibilities are almost limitless.
Span: 180mm

a **RATIO** kit

548

SS80

SS80 Three Arch Viaduct

With stone piers and sides coupled with brick arch lining, this three arch viaduct kit is modeled on the style of the structures of the Settle and Carlisle line. Can be made as single or double track. Equally at home carrying railroads over wild moorland or roads over suburban railroad cuttings, these superb bridges will find a home on almost any layout. Several kits can be easily combined to create what would be a truly magnificent centerpiece.
423mm long x 124 mm wide
Height: 234mm

a **WILLS** kit

SS81 Extra Arch & Pier

Extension for the SS80 viaduct kit.
141mm long x 124mm wide
Height: 234mm

a **WILLS** kit

SS81

SS83 Two Stone Piers

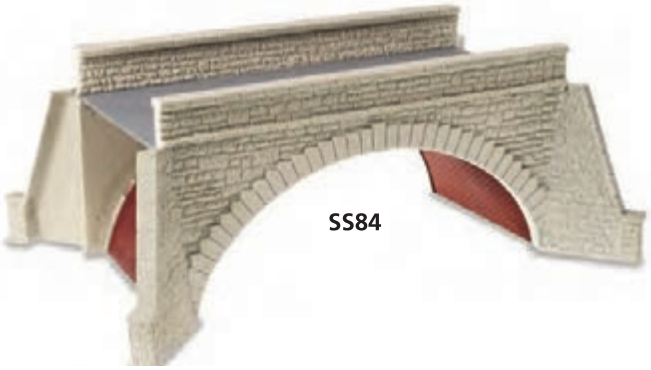
This pair of piers from the SS80 viaduct kit will enable the resourceful modeler to create individual bridges, using either the **SS57** Varigirder spans or the Peco **LK-10** and **LK-11** bridge sides.
Height: 165mm
Width: 34mm

a **WILLS** kit

SS82 River/Canal Bridge

Small bridges are a useful device on a model ralway, their low height makes them unobtrusive. Several spans in a row are often seen over low lying meadows to allow flood water to flow back to a river.
173mm long x 176 mm wide (incl.wing walls)
Height: 68mm

a **WILLS** kit



SS84

SS83

HO Trackside

LK-83 Signal Box Kit
Footprint, including steps:
79mm x 85mm

It still looks modern, yet the prototype for this iconic postwar BR design was actually built back in the 1950s and is of a type which can still be seen today.

Assembly is simple and the correctly colored components make up into an attractive model without the need for any painting.

Fully illustrated instructions

a **PECO** kit.

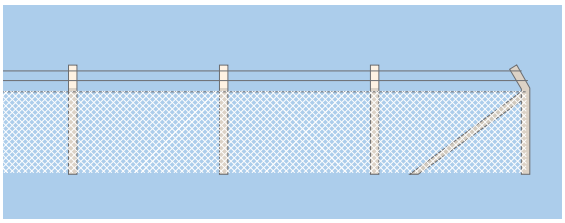
LK-81

LK-83

LK-81 Office Buildings
Footprint: 114mm x 57mm

Two office units per kit. Offers a choice of two each of eight different wall sections. The plastic pre-colored parts require no painting. Fully illustrated instructions included.

a **PECO** kit



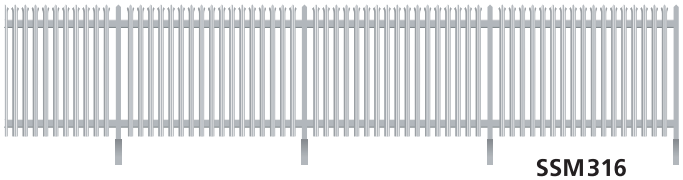
436

436 Security Fencing
Keep your freight safe with chainlink style fence and posts. Includes road and rail gates.
Length: 1600mm

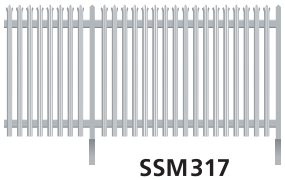
a **RATIO** kit

SSM316 Modern Palisade Fencing with Gates
1460mm fencing.

a **WILLS MODERN** kit



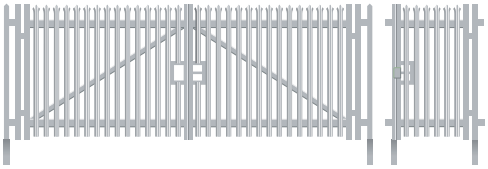
SSM316



SSM317

SSM317 Modern Palisade Fencing
1460mm fencing.

a **WILLS MODERN** kit

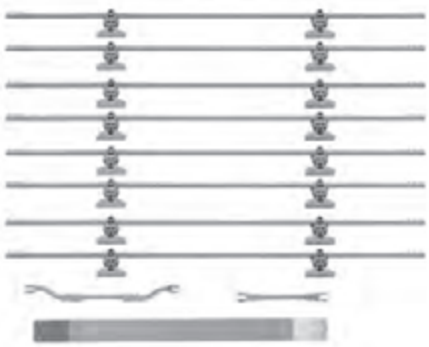


SS89 Interlocking
Highly realistic injection moulded components bring realism and authenticity to trackwork in the era of mechanical interlocking. This scenic item kit consists of 1120mm (scale 320ft) of rodding, support cradles, cranks and other details.

a **WILLS** kit

SS90 Interlocking Extension Kit
Kit will make 2000mm (scale 570ft) of extra rodding components for use with SS89 for longer runs.

a **WILLS** kit



SS89

Now available

SSM323 Security Gate Kit
Highly realistic injection moulded components bring realism and authenticity to trackwork in the era of mechanical interlocking. This scenic item kit consists of 1120mm (scale 320ft) of rodding, support cradles, cranks and other details.

a **WILLS MODERN** kit

SSM323

Wills Modern by Peco

HO Modular Kit System

Contemporary industrial and commercial building kits in a versatile modular format.

SSM300
(assembled as low relief)

SSM300 Industrial/Retail Unit
This is the base kit in the series and can be built either as a low relief building or as a stand alone structure.
Footprint (low relief): 336 x 84mm
Footprint (stand alone): 168 x 168mm

SSM315 Industrial/Retail Unit Extension Kit
Place behind SSM300 to double the depth of the building.
Same footprint as SSM300

SSM312 HGV Loading Bays Kit

SSM310 Supermarket Frontage Kit

SSM311 Out of Town Retail Unit Frontage Kit

SSM300
(assembled as stand alone)

SSM315
Extension Kit

SSM300
(low relief)

SSM310

SSM312

SSM322 DPD Distribution Depot
Officially licensed by DPD Geopost (Deutschland) GmbH this kit includes an optional printed detailed card interior, and can therefore be modeled with front and rear bay doors in open or closed positions.

All parts are pre-colored so painting is optional.

Footprint: 168 x 168mm stand alone building or 336 x 84mm low relief.

SSM311

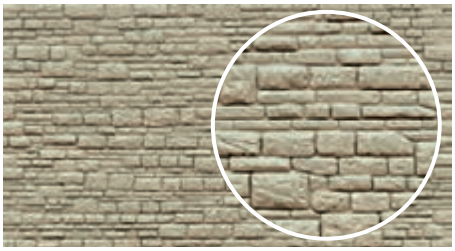
WILLS·KITS

HO Scale Materials Sheets

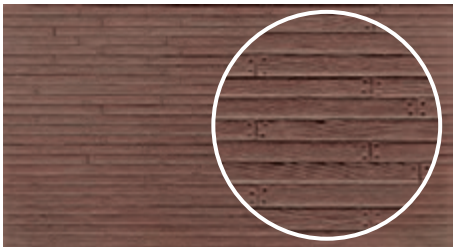
These materials sheets are the same as those from the Craftsman Series kits and are ideal for extending and modifying those kits. They are also equally useful for scratchbuilding, saving many hours of repetitive work creating the various patterns and textures found in the real world.

Each* pack contains four sheets 130mm x 75mm of injection moulded styrene, approximately 2mm thick, making them rigid enough to be self supporting.

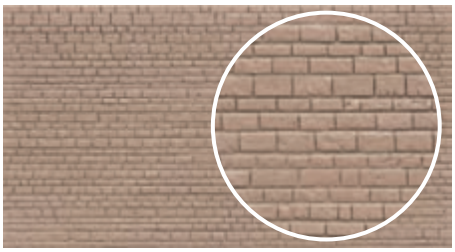
*The exceptions are the glazing sheets which are vacuum formed in clear plastic and the Viaduct Brick Lining which is both bigger (170mm x 113mm) and thinner in order to be sufficiently flexible to form the underside of an arch from a single piece.



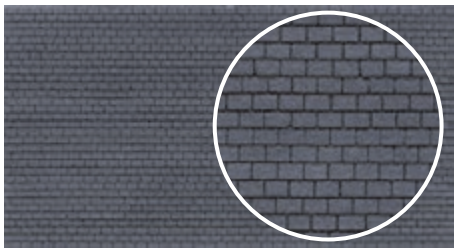
Coarse Stone SSMP 200



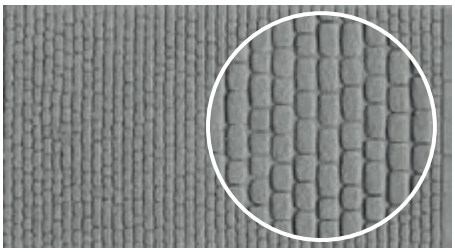
Wood Planking SSMP 201



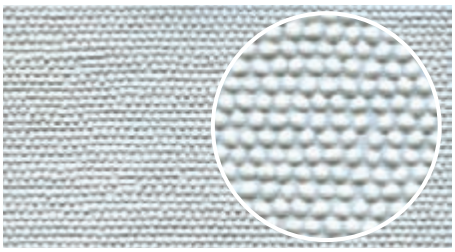
Dressed Stone SSMP 202



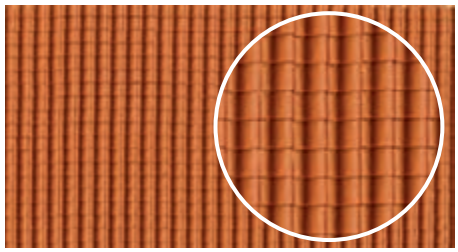
Slates SSMP 203



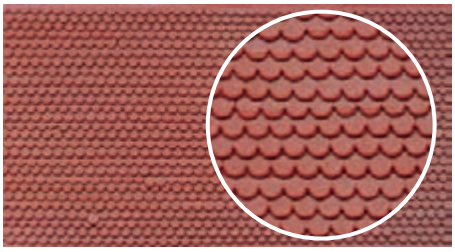
Granite Setts SSMP 204



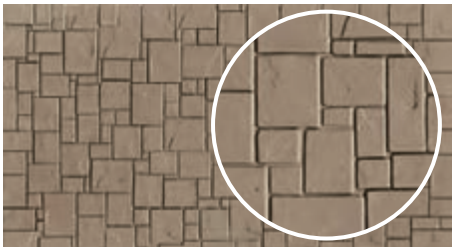
Cobblestone Walling SSMP 205



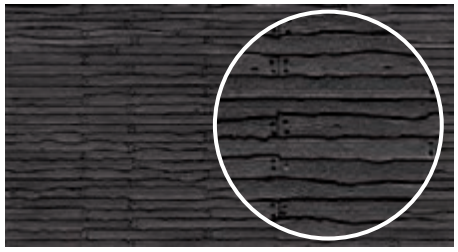
Pantiles SSMP 206



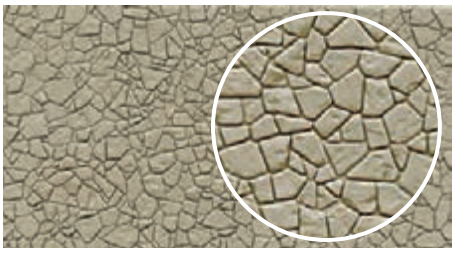
Rounded Tiles SSMP 207



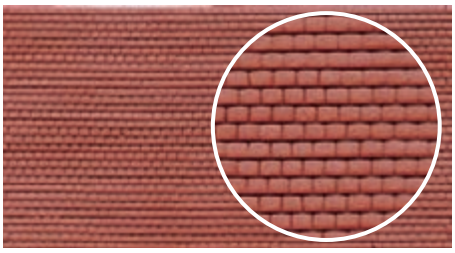
York Stone Paving SSMP 208



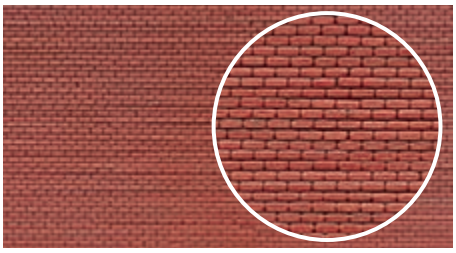
Waney Edge Boards SSMP 209



Crazy Paving SSMP 210

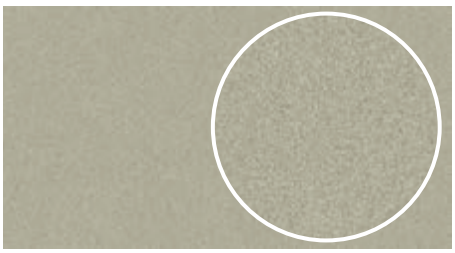


Plain Tiles SSMP 211



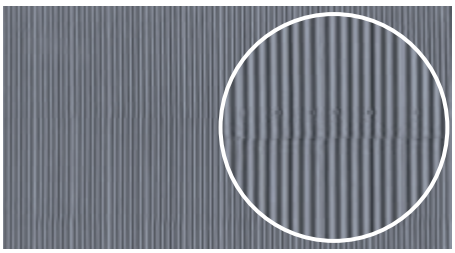
Brickwork - Plain Bond SSMP 212

Clapboard SSMP 213

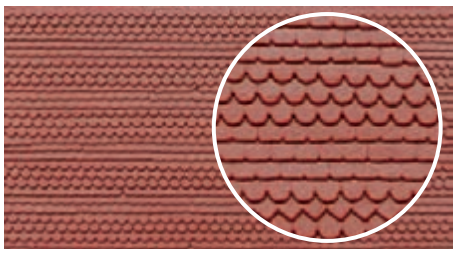


Cement Rendering SSMP 214

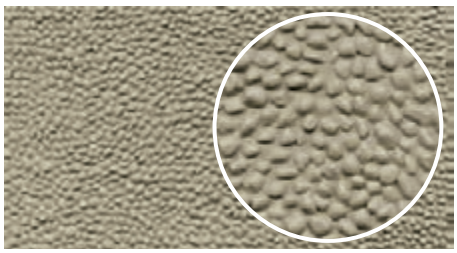
Limewashed Stone SSMP 215



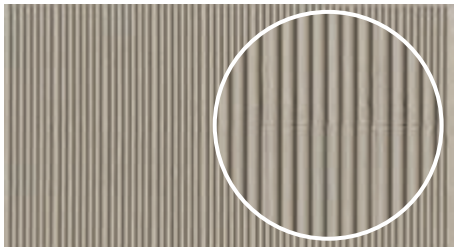
Corrugated Iron SSMP 216



Fancy Tiles SSMP 217

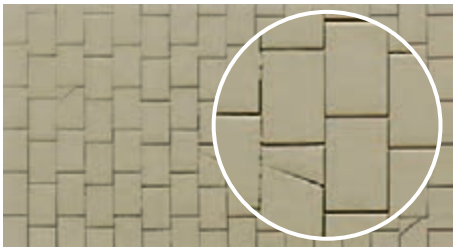


Cobble Stones SSMP 218

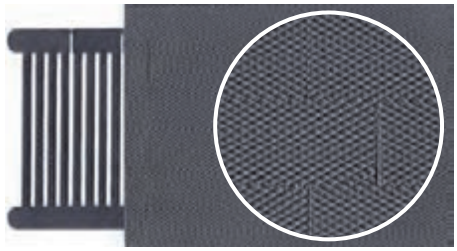


Corrugated Asbestos SSMP 219

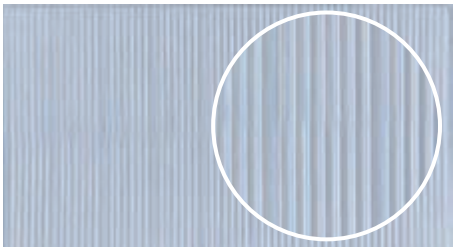
Tongue & Groove Boarding SSMP 220



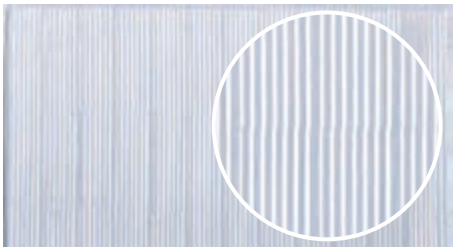
Victoria Stone Paving SSMP 221



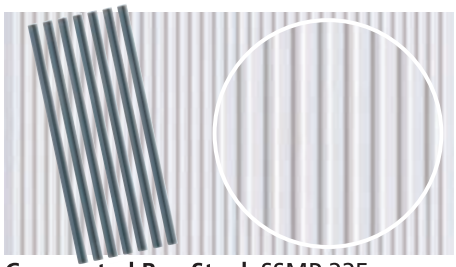
Chequer Plate SSMP 222 *with riveted straps*



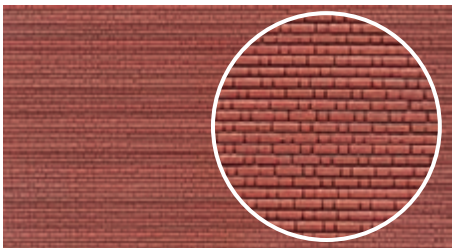
Corrugated Glazing (iron type) SSMP 223



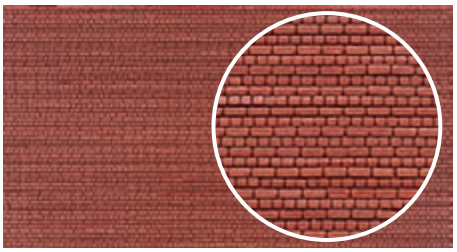
Corrugated Glazing (asbestos type) SSMP 224



Corrugated Box Steel SSMP 225
with corner pieces

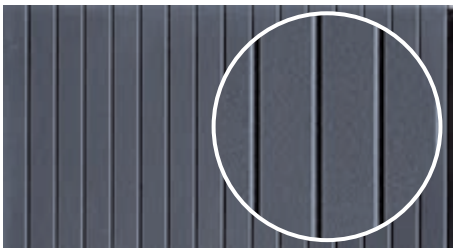


Brickwork - Flemish Bond SSMP 226

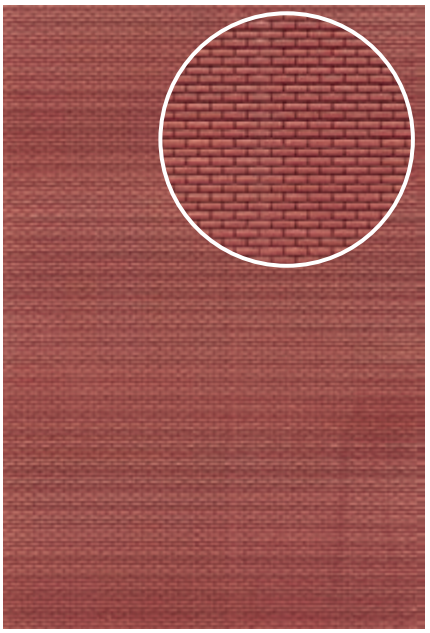


Brickwork - English Bond SSMP 227

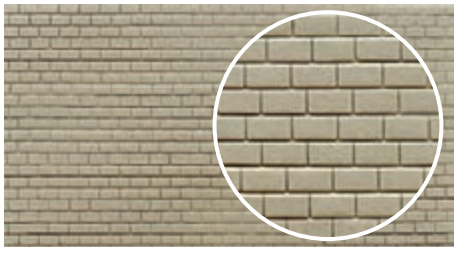
Random Stone SSMP 228



Sheet Roofing SSMP 229



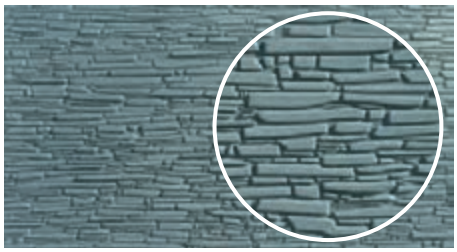
Viaduct Bridge Lining SSMP 231



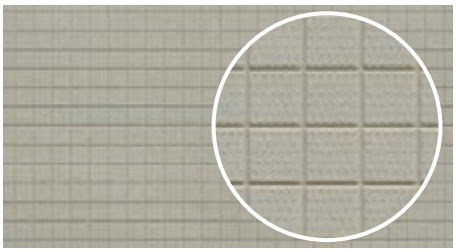
Concrete Blocks SSMP 230

Kit contains:
12 straights 79mm x 25mm,
plus 12 corners,

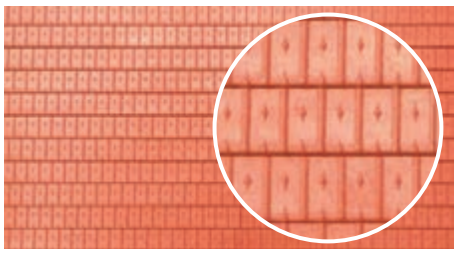
Period York Paving SS77



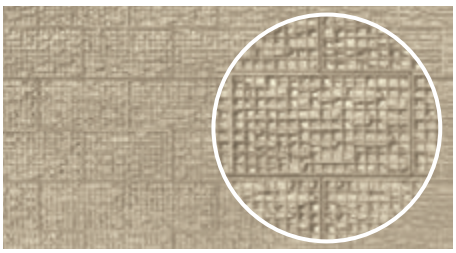
Slate Walling SSMP 232



Tactile Platform Paviors SSMP 233



French Lozenge Tiles SSMP 234



Gabion Cage Walling SSMP 235

Look for these packs at your favorite hobby store.

Visit our website www.peco-uk.com for all the kits in the Wills family of products.

N Scale Trackside

PECO

PLASTIC RATIO MODELS

WILLS·KITS

253 River/Canal Bridge
An invaluable little bridge, stone built structures like these are seen all over. Their low clearance makes them suitable for crossing water. Several in a row are often seen bridging low lying meadows to allow winter flood water to pass through.
Footprint: 63 x 93 mm (incl. walls)
Height: 40 mm
a **RATIO** kit.

251 Three Arch Viaduct
With stone piers and sides coupled with brick arch lining. Can be made as single or double track. Equally at home carrying trains over wild moorland as suburban railway embankments, several kits can be easily combined to create a truly magnificent centerpiece.
Footprint: 63 x 220 mm
Height: 130 mm
a **RATIO** kit.

252 Extra Arch and Pier
Designed to extend the 251 Viaduct Kit.
Footprint: 63 x 73 mm
Height: 130 mm
a **RATIO** kit.

254 Two Stone Piers
This pair of piers from the 251 viaduct kit will enable the resourceful modeler to extend and modify other kits such as the 240 Steel Truss Bridge. Versatile and useful accessory.
Height: 88 mm, width: 63 mm
a **RATIO** kit.

228 Oil Depot
Two oil tanks and a hut make up a feature which became more common as oil took over from coal.
Footprint: 80 x 25mm

315 Oil Tanks
Footprint: 80 x 25mm
both **RATIO** kits

NB-38 Girder Bridge Sides
Truss Girder Type, Grey
Length 143mm
Detailed plastic mouldings - even including bolt heads. Supplied in packs of two pairs.
Full instructions included, this kit can be used to model either a through-truss or deck-truss bridge.

NB-39 Plate Girder Type
Red Oxide
Length 113mm
Detailed plastic mouldings supplied in packs of two pairs.
Can be used to model a small bridge in its own right or, alternatively as approach spans on a river crossing, in combination with the truss bridge kit above.

NB-56F Inspection Pit
Concrete type
(Opposite page)
Modular design makes it easy to assemble inspection pits of any length. With several kits you can model the train-length pits seen at modern maintenance sheds.
Supplied with Code 55 rail, easily adapted for use with Code 80 rail.
Length: 171mm


251


253


252


228


254


315


NB-38


NB-39

240

214

NB-7

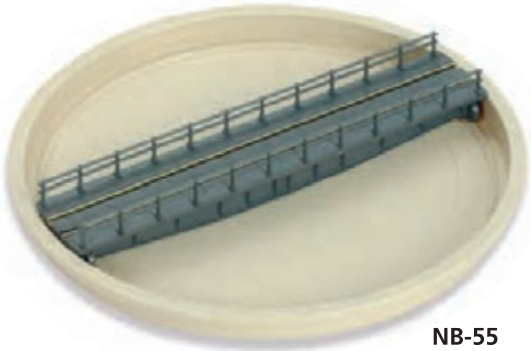
Tip . . .

Although designed primarily for use on station platforms, this kit is also useful in other locations such as a pedestrian subway on a busy city street.

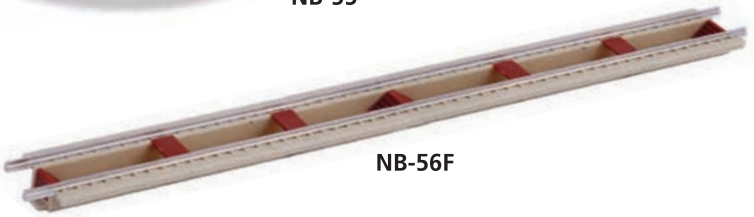
241

242

247



NB-55



NB-56F

214 Yard Crane

This basic crane is an essential for all small yards, often found inside goods sheds or on loading banks. Used to lift loads up to one ton, the boom can be swung round on its base to transfer goods to road vehicles. Base diameter: 25mm
a **RATIO** kit

240 Steel Truss Bridge with Stone Piers

This kit gives you the opportunity to make an interesting bridge for your layout. The design is fairly universal across the world, often found spanning tracks in urban areas or bridging rivers in the country. This style of truss girder bridge is also very common in mountainous regions.
Size: Span 144mm Pier 61 x 125mm
a **RATIO** kit.

241 Steel Truss Span with Steel Trestle

This kit is designed to extend the Steel Truss Bridge with Stone Piers kit 240. Supplied with decking and truss girder sides together with a single trestle.
Size: Span 144mm Trestle 61 x 125mm
a **RATIO** kit.

242 2 Steel Trestles

Two trestles as supplied in kit 241 are available separately for those who enjoy scratchbuilding and kitbashing.
Each sized: 61 x 125 x 12mm
a **RATIO** kit.

NB-7 Subway Staircase Kit

Designed to fit into the platform without the need to cut further into the baseboard.

The kit can be assembled as two staircases or they can be combined to make one of greater depth.

Handrails and balustrades are etched brass for a scale appearance.
Aperture required in platform: 15mm x 28mm.
a **PECO** kit.

247 Coaling Tower

Medium sized all-steel design used for coaling steam locomotives. Also useful for loading hoppers with sand, gravel, sawmill waste, sugar beet harvest etc.
Footprint: 64 x 50 mm
Height: 95 mm
a **RATIO** kit.

NB-55 Turntable

Based on a Ransomes & Rapier prototype, built in Britain but exported all around the world
Kit contains plastic components, rail and electrical contacts. Hand operated but can be motorized.
Length of Deck: 151 mm
Hole required 155mm dia.
a **PECO** kit.

PECO Scene Static Grass System

Static Grass Applicators

PSG-3 Precision Applicator
Kit includes sample static grass packs and a small tub of basing glue. Perfect for adding static grass detail around difficult to get at areas, such as around buildings, fences, signals etc. Suitable for static grass up to 6mm in length.

PSG-1 Micro Applicator
The standard static grass applicator for everyday use. Supplied with one grid, suitable for grass up to 6mm in length

PSG-2 Pro Applicator
Perfect for use on large layouts where there is a wide expanse of scenery to cover. Supplied in a handy pistol case, the set includes three different removable grids for all grass sizes up to 12mm., a small selection of sample grass packs and a tub of basing glue.

Glues and Sprays

PSG-10 Basing Glue 500ml
Apply to the scenery to apply the first layer of static grass. Water based glue prepared specially for the application of static grass, this glue has good conductive properties for the static grass application process and dries quickly at normal room temperature.

PSG-13 Layering Spray Adhesive (pump action spray bottle) 500ml
This is a non-aerosol container and the glue is applied by pump action. Useful where more control is required. Water based glue specially for the application of static grass, this glue has good conductive properties for the static grass application process and dries quickly at normal room temperature.

YouTube

Watch a demonstration on PECO TV – www.peco-uk.com

Please note: whilst every care has been taken to ensure the colors shown in this catalog are as accurate as possible, printing processes cannot reproduce the colors of organic materials with total precision.

PSG-10

PSG-13

Static Grass Applicators

- Input: 9v max (9v alkaline battery recommended, not supplied)
- Operational ampere: 10mA
- Output: 15kv DC maximum
- Life expectancy (9v alkaline battery) max. 60 hours

Grasses & Scatter

Spring Grass

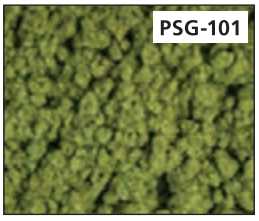
1mm	PSG-101	30g
2mm	PSG-201	30g
2mm	PSG-221	100g
4mm	PSG-401	20g
4mm	PSG-421	100g
6mm	PSG-601	20g

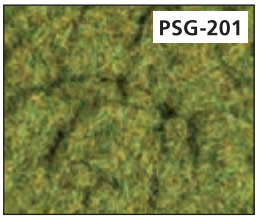
Summer Grass

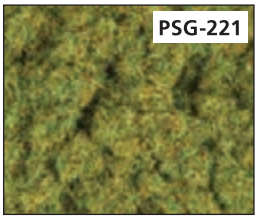
1mm	PSG-102	30g
2mm	PSG-202	30g
2mm	PSG-222	100g
4mm	PSG-402	20g
4mm	PSG-422	100g
6mm	PSG-602	20g

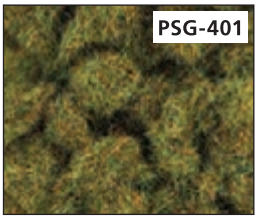
Autumn Grass

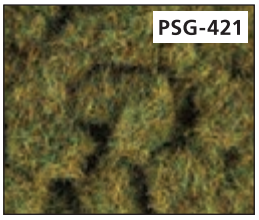
1mm	PSG-103	30g
2mm	PSG-203	30g
2mm	PSG-223	100g
4mm	PSG-403	20g
4mm	PSG-423	100g
6mm	PSG-603	20g

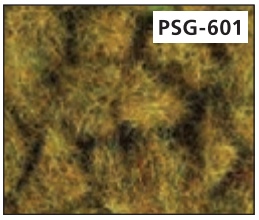


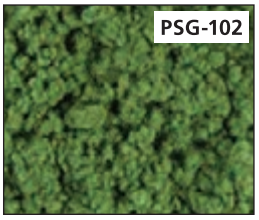


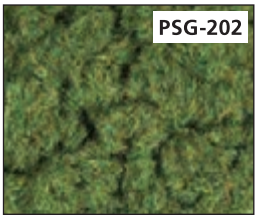


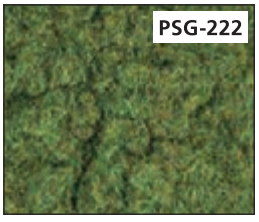


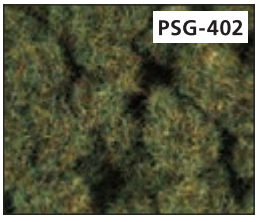


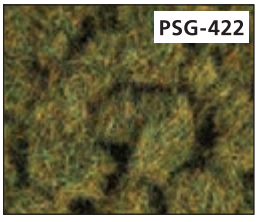


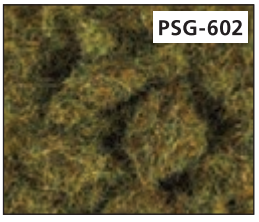


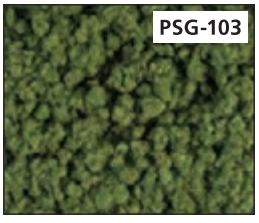


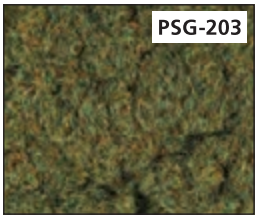


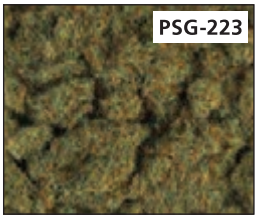


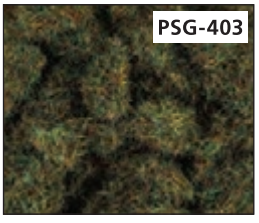


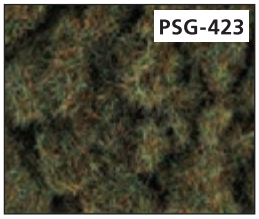


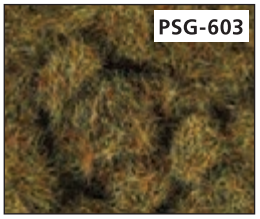


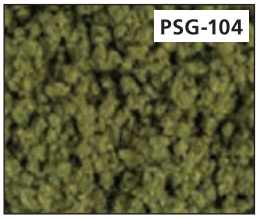


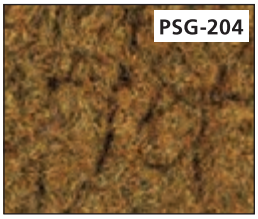


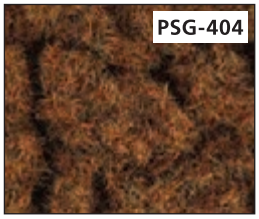


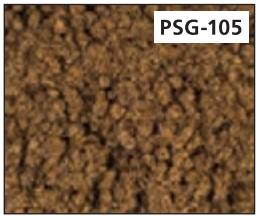


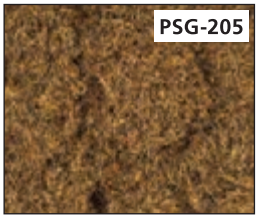


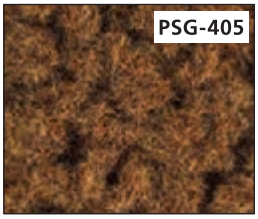


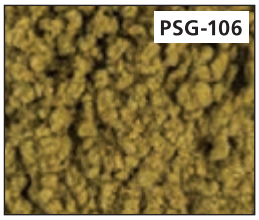


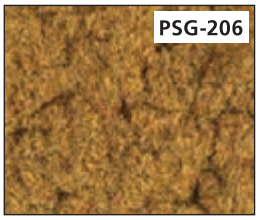


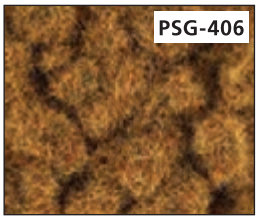


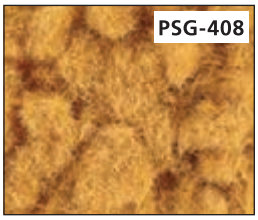


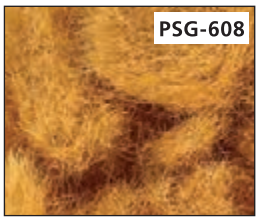


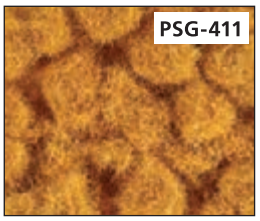


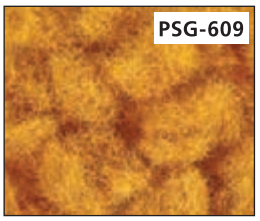


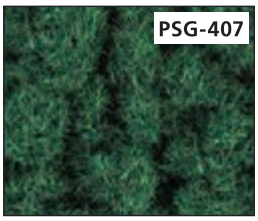


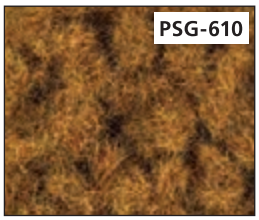


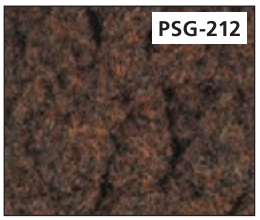


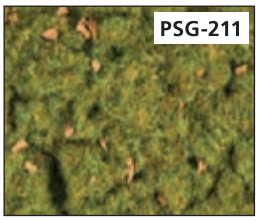


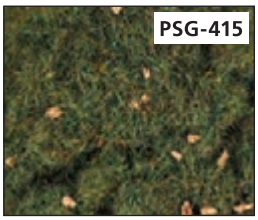


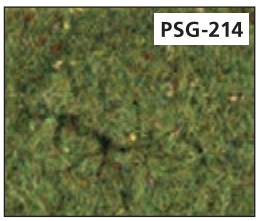


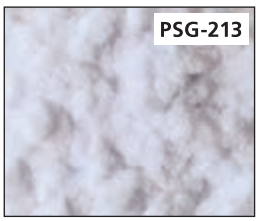


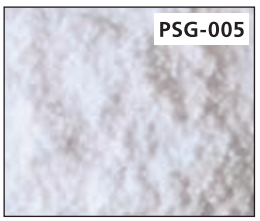


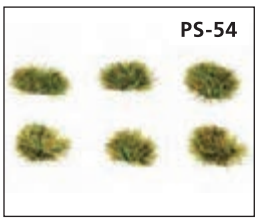


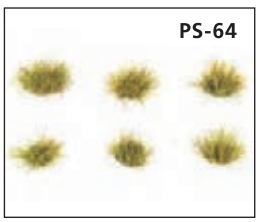


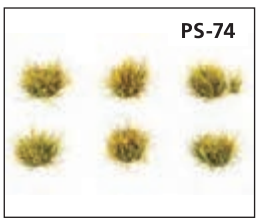


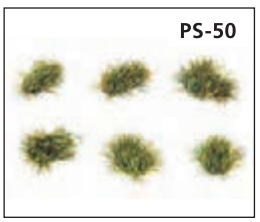


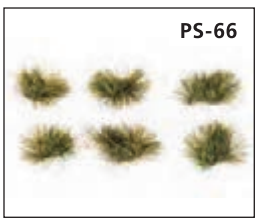


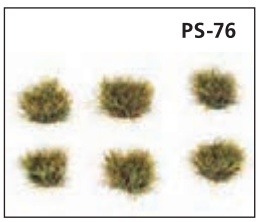


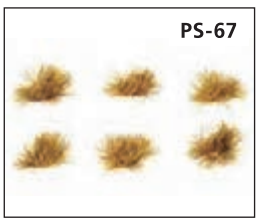


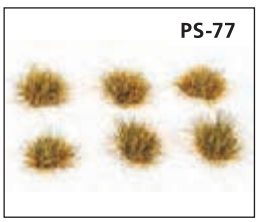


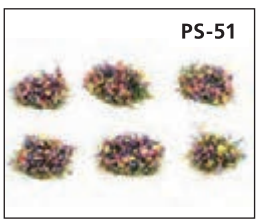


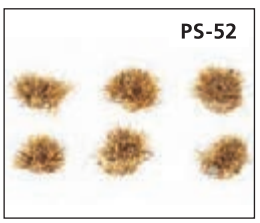












Winter Grass

1mm	PSG-104	30g
2mm	PSG-204	30g
4mm	PSG-404	20g

Patchy Grass

1mm	PSG-105	30g
2mm	PSG-205	30g
4mm	PSG-405	20g

Dead Grass

1mm	PSG-106	30g
2mm	PSG-206	30g
4mm	PSG-406	20g

Straw

4mm	PSG-408	20g
6mm	PSG-608	20g

Golden Wheat

4mm	PSG-411	20g

Hay Field

6mm	PSG-609	20g

Pasture Grass

4mm	PSG-407	20g

Wild Meadow

6mm	PSG-610	20g

Scorched Grass

2mm	PSG-212	30g

Spring Alpine

2mm	PSG-211	30g

Summer Alpine

4mm	PSG-415	20g

Summer Flowers

2mm	PSG-214	30g

Snow

2mm	PSG-213	30g

Snow Scatter

0.5mm	PSG-005	30g

Grass Tufts & Woodland Cover

Spring Grass Tufts

4mm	PSG-54	100 pieces
6mm	PSG-64	100 pieces
10mm	PSG-74	100 pieces

Summer Grass Tufts

4mm	PSG-50	100 pieces

Autumn Grass Tufts

6mm	PSG-66	100 pieces
10mm	PSG-76	100 pieces

Wild Meadow Grass Tufts

6mm	PSG-67	100 pieces
10mm	PSG-77	100 pieces

Patchy Grass Tufts

6mm	PSG-65	100 pieces
10mm	PSG-75	100 pieces

Flower Grass Tufts

4mm	PSG-51	100 pieces

Sandy Grass Tufts

4mm	PSG-52	100 pieces

Woodland Ground Cover

PS-400 approx. 50g, non-static

Making a start with the Peco Static Grass System

A Fowler 3F 0-6-0T heads a fitted freight along an embankment scene set in summer time, achieved by using a variety of products from the Peco Scene Static Grass System.

What is 'static grass'?

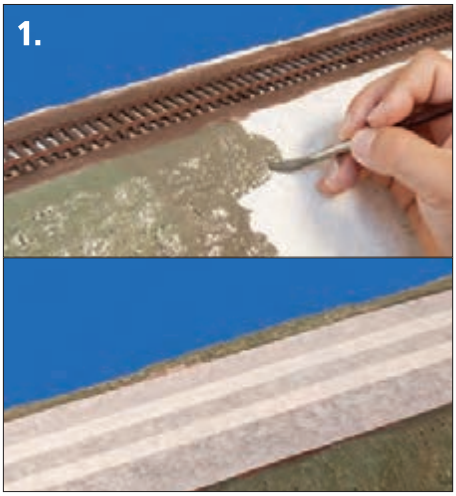
Conventional methods for applying a top layer of grass or foliage on a layout include the use of pre-colored mats and scatters. 'Static grass' refers to the use of synthetic fibers that are statically charged upon application so that they stand upright on the surface of the scenery like real blades of grass.

To provide the static charge, a special device, or applicator, is required. The Peco Scene range of Applicators have a special coating at the base of the hoppers that creates a negative polarity within the hopper cavity. As the grass fibers exit the hopper through the sieve they are pulled mid-air through an electric field, which causes the fibres to land in a vertical position on the glued area; the Peco Static Grass Basing Glue (PSG-10) is electrically conductive and polarizing of the applicator is achieved by attaching the connecting crocodile clip to a pin inserted in the glued area of scenery.

It is worth offering a word of caution when using a static applicator; the build-up of static charge may become sufficient to damage any sensitive electronics that are in close proximity to the working area, so such items (particularly locomotives with DCC decoders) should be stored off the layout whilst the work is taking place.

Watch a demonstration on PECO TV

Step 1.
Before applying the static grass some preparation of the model was required. The embankment was formed of expanded polystyrene covered with Peco Landform to provide a hard outer shell. To disguise any visible traces of this after application of the static grass, the embankment surface was first painted a dark green/brown color. Although the fibers will only stick to glued areas, the method of application does result with them becoming dispersed over a wide area. Stray fibers can be removed using a vacuum cleaner or brush, but it is advisable to remove or cover any structures and mask over areas of trackwork, illustrated below.



Step 2.
A single type of fiber could be used, but using a combination of colors and lengths allows subtle variations to be introduced across areas of scenery. It is useful to refer to photos of real embankments to determine the types of fibers to use depending upon what time of year your scene is set. The mix of fibers you select for a summer scene may vary greatly from that of a fall or winter scene. It is, of course, largely subjective, and with so many colors and lengths to choose from, the number of possible combinations is huge!

Step 3.
Dispense quantities of each fiber (three types used in the picture below) into a container with a tight-fitting lid. Shake the container vigorously to achieve a good mix of fibers. It is useful to make a written note for the ratios of different fibers used so that further batches can be prepared to match.

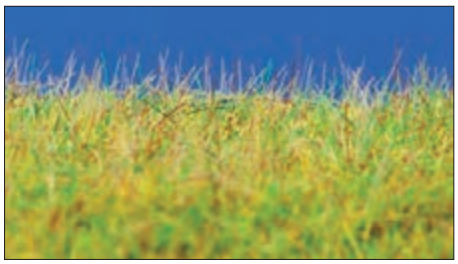
Step 4.
Load a liberal quantity of your mixed fibers into the hopper of the static applicator. The hopper shouldn't be completely filled – leave plenty of room for the fibers to circulate. Once loaded, lay the applicator on its side; be careful not to tip the applicator inadvertently such that the fibers are able to fall through the mesh.

Step 5.
The next task is to insert a pin or screw into the area of scenery to be covered, onto which the crocodile clip connected to the applicator can be attached. This helps to polarize the device, creating the electrical field that encourages the fibers to land vertically on the scenery. Although the photo shows the crocodile clip being attached, it is in fact best to do this after the glue has been brushed onto the scenery.

Step 6.
The Basing Glue dries quite quickly, so it is best to work on an area no larger than approximately 120mm x 120mm at a time. Ensure the area is completely covered with adhesive, leaving no gaps.

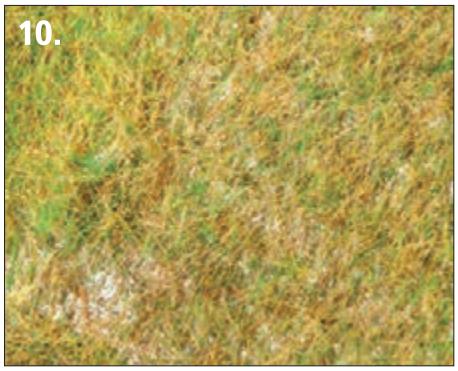
Step 7.
With the crocodile clip attached, turn on the applicator (red switch on the handle). By holding the applicator over the model and gently shaking it, the fibers fall onto the glued surface. Move across the model to achieve an even coverage and keep applying fibers until the glued area is completely covered. Remember to turn off the device as soon as you have finished the application.

Step 8.
The picture below shows how a section of the embankment looked after the first application. The close-up (above center) shows how effective the static charge is at encouraging the fibers to stand vertically.



Step 9.
Continue working along the model in small sections, taking care not to brush glue onto the fibers already in place. Don't be tempted to work on big sections at a time; the glue will dry too quickly and the fibers will fail to cover the area completely.

Step 10.
Once a single covering of static fibers is complete leave the glue to dry overnight and then clean off any excess fibers. The excess can be retrieved by collecting it in sheets of newspaper for future use. In the picture below you can see gaps in the static grass covering; remember this is only the first layer and a second layer of static fiber applicaton will cover these patches.

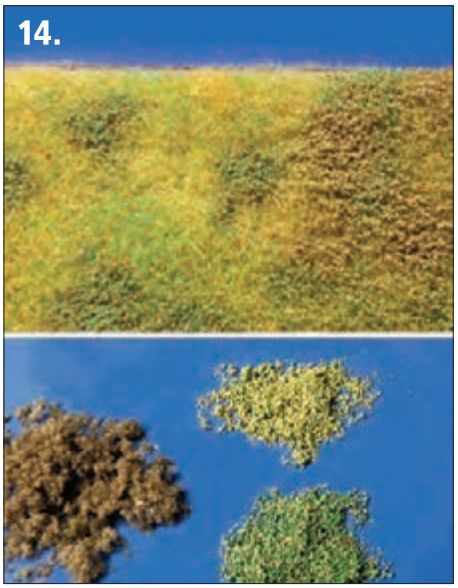


Step 11.
For the second layer of fibers use what is left of the original mix, adding in more of the same ratio of different fibers or experiment with other types from the static grass range. For instance, by adding PSG-601 6mm Spring Grass and PSG-608 6mm Straw into the mix your second layer of static grass will appear lighter and drier than the layer below, as with grass in the real world.

Step 12.
The layering Spray is an adhesive that is used to add extra layers of fibers, either over complete areas or in small patches to break up any uniformity. The main picture below shows a section of the model after a second layer has been applied, demonstrating how the resultant coverage of fibers is much more dense with no exposed areas of plaster shell underneath

Step 13.
To add further variety to the scene, small quantities of other fibers can be used. Apply the Layering Spray in small selected areas, light dustings of PSG-407 4mm Pasture Grass were sprinkled over our model. These particular fibers are quite strong in color so care was taken to not use too much.

Step 14.
With the application of static grass essentially complete you may choose to continue by replicating the appearance of shrubs and foliage, often seen around railroads in fields and cuttings. Other traditional scenic materials can be used to achieve this in conjunction with the Layering Spray. These materials 'sit' on top of the static grass fibers, giving an effective impression of dense foliage whilst enhancing the surface detail of the finished scene.



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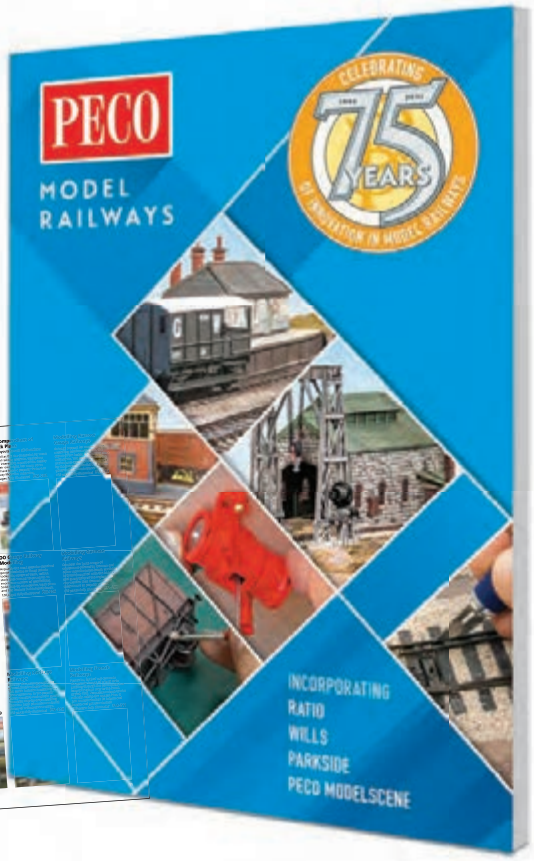

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