



IDENTIFICATION OF COMPONENTS FOR GENUINE PANDROL BRAND FASTENING ASSEMBLIES

PANDROL brand components, hand tools and ancillary items are available through Unipart Rail in small or bulk volume. The identification charts on the next few pages provide outline information for track engineers and procurement personnel to ensure the correct parts are used for the rail fastening assemblies on any particular site.

Rail fastening components are defined by Network Rail and recognised throughout the industry as **SAFETY CRITICAL ITEMS**. If in doubt, consult **PANDROL UK Limited**, for full information and site support.

Use only genuine **PANDROL** components to ensure the rail fastening assembly is maintained at peak performance.

PANDROL can be contacted on +44 (0)1909 476101 or alternatively at support@pandrol.com

TECHNICAL SUPPORT can be contacted on +44 (0)1270 847707 or alternatively at enquiries@unipartrail.com

Further Information on **PANDROL** products can be found at www.pandroluk.com

Concrete and Steel Sleeper Assemblies

Sleeper Type	Clip	Insulator	Pad	Nominal Track Gauge
F23 to F27 Series EF28, EF29, EF33 Series W402 steel sleepers	PR401A or	Orange (Nylon) with 110/113A rail. Blue (Nylon) with 109lb/98lb rail.	5mm Rubber(high speed) or 5mm EVA (low speed). For maintenance 7.5mm pads are fitted. (NB: 5mm EVA suitable for Series W402 steel sleepers at all speeds.)	1432mm
	e1809	White (GRN) Type 2433	Type 9286 for concrete	1432mm
	e2001 e-Plus eP20127	Type 9132		
F40 sleepers or 5F40 sleepers	e1809	Blue GRN Type 4452	10mm Pandrol studded rubber pad Type 4548 OR 10mm Rubber bonded cork OR 10mm 'H' Rubber.	1432mm 1435mm
EG 49-BS113A	e2007	Type 10274 (Red) FIELD SIDE Type 10275 (Yellow) GAUGE SIDE	Type 5197	1436mm
EG 49-CEN60	e2007	Type 5720 (Green) BOTH SIDES	Type 5197	1438mm
5F41, F41, 5EF36, EF36 series 500 steel sleepers	FC1501 with Type 8494 Toe Insulator	Type 7551 (White)	Pandrol studded rubber pad Type 6650 EXCEPT for: 1. Curves where R<400m 2. Series 500 steel sleepers 3. Low speed applications when Pandrol studded EVA pad Type 8531 can be fitted.	1435mm
G44, 560H, 560 and 600 series steel sleepers with BS113A rail	FC1504 with Type 8494 Toe Insulator	Type 8582 (Blue) FIELD SIDE Type 8690 (Black) GAUGE SIDE	Pandrol studded rubber pad Type 6650 EXCEPT for: 1. Curves where R<400m 2. All steel sleepers with BS113A 3. Low speed applications when Pandrol studded EVA pad Type 8531 is fitted.	1436mm
G44, 560H, 560 and 600 series steel sleepers with CEN60 rail	FC1504 with Type 8494 Toe Insulator	Type 7551 (White)	Pandrol studded rubber pad Type 8854 EXCEPT for: 1. All steel sleepers with CEN60 where Pandrol studded EVA pad Type 9970 is fitted.	1438mm
HH10 Mark 2, HH12 series 560H with Type 9922 hook-in shoulders	FC1504 with Type 8494 Toe Insulator	BS113A RAIL Type 8582 (Blue) FIELD SIDE Type 8690 (Black) GAUGE SIDE	Type 8531	1436mm
HH12 and series 560H with Type 9482 hook-in shoulders	FC1504 with Type 8494 Toe Insulator	CEN 60 RAIL Type 7551 (White) BOTH SIDES	Type 9970	1438mm
HH10 Mark 1 for use with 113A ONLY using Type 9922 hook-in shoulders	FC1504 with Type 8494 Toe Insulator	Type 8277 (Yellow) BOTH SIDES	Type 8531	1435mm

Refer to PANDROL wallchart for further details of the PANDROL FASTCLIP system

PANDROL® FASTENINGS

FINISHES

Clips are available with either STANDARD or CORROSION PROTECTION (previously called SHERARDISED) finishes. CORROSION PROTECTION (CP) finish should be used in the following areas:









- Wet Tunnels
- Coastal areas
- Level crossings
- Adjacent to heavily salted roads

Clip Applications and Colour Coding

Type	Cat.No. and Finishes		Type	Cat.No. and Finishes	
<p>FC1504. Used on G44 and EG47 concrete sleepers and Series 600 steel sleepers.</p>	 Standard Finish: Green 0057/048048	 CP Finish: Purple Gloss 0057/048055	<p>e2007. For F40 sleepers used in difficult areas where insulator crushing or creep is occurring. Can be used with existing Blue (GRN) insulator. Used in RT60 6 hole IBJ's and EG49 fitted with BS113A.</p>	 Standard Finish: Blue 0057/048248	 CP Finish: Grey Gloss 0057/048045
<p>FC1501. Used on F41 and EF36 concrete sleepers and Series 500 steel sleepers.</p>	 Standard Finish: Red 0057/048033	 CP Finish: Grey Gloss 0057/048056	<p>PR401A. For concrete sleepers and all PAN plates EXCEPT obsolete PAN1 to PAN5 where PR303 clips were used.</p>	 Standard Finish: Red 0057/048239	 CP Finish: Natural Matt Grey 0057/048253
<p>e plus - eP20127. Used on F27,EF28 and W402 sleepers where extra resilience and insulator durability is required. Fitted with integral Type 7387 toe insulator.</p>	 Standard Finish: Red 0057/048237	 CP Finish: Grey Gloss 0057/048307	<p>PR402A. Left handed version of PR401A.</p>	 Standard Finish: Blue 0057/048243	 CP Finish: Grey Gloss 0057/048234
<p>e plus - eP20129. Fitted with integral Type 7387 toe insulator. For use on RT60 S&C and EG49 fitted with CEN60.</p>	 Standard Finish: Green 0057/048236	 CP Finish: Blue Gloss 0057/048308	<p>PR428A. Maintenance replacement for left handed PR304 in PAN1-PAN5 baseplates.</p>	 Standard Finish: Green 0057/048244	 CP Finish: Yellow Gloss 0057/048249
<p>e plus - eP20130. Left hand version of eP20129.</p>	 Standard Finish: Yellow 0057/048252	 CP Finish: Purple Gloss 0057/048309	<p>PR427A. Maintenance replacement for PR303 in PAN1-PAN5 baseplates.</p>	 Standard Finish: Purple 0057/048245	 CP Finish: Red Gloss 0057/048242
<p>e1809. For use in F40 sleepers with a Blue(GRN) insulator. For use in all other sleepers with an Orange (Nylon) insulator. Must not be used with Grey Cast Iron 'PAN' Type Baseplates.</p>	 Standard Finish: Red 0057/048255	 CP Finish: Natural Matt Grey 0057/048031	<p>Panlock. clips for Bull Head Rail.</p>	 Standard Finish: Red 0057/048450	 CP Finish: Natural Matt Grey 0057/048046
<p>e1810. Left handed version of e1809. Used in RT60 6 hole IBJ's.</p>	 Standard Finish: Yellow 0057/048256	 CP Finish: Black Gloss 0057/048043	<p>A1 spike. original elastic rail spike.</p>	 Standard Finish: Red 0057/048781	CP Finish: not available
<p>e2001. High toe load clip for F27 sleepers. Used in difficult areas where insulator crushing or creep is occurring. Must be used with a WHITE (GRN) insulator (Cat.No.:57/48436).</p>	 Standard Finish: Purple 0057/048247	 CP Finish: Red Gloss 0057/048044	<p>AL23. maintenance replacement for A1 spike. The AL23 spike is supplied in two parts. The inner part is black, and the outer part is red, and fit together as shown.</p>	 Standard Finish: Red/Black 0057/048785	CP Finish: not available

PANDROL® FASTENINGS

Insulator Applications and Colour Coding

Type	Catalogue Number	Type	Catalogue Number
<p>FASTCLIP Type 8494 Toe Insulator (White). For use on all sleeper types fitted with the FASTCLIP system.</p>	 <p>0057/048020</p>	<p>Composite (Red). 9mm sidepost thicknesses. Pandrol Part No.2786/3</p>	 <p>0057/048168</p>
<p>FASTCLIP Type 7551 Sidepost Insulator (White). 8mm sidepost thickness. Used on G44, EG47 and 560H steel sleepers with CEN60 rail. Used on F41,5F41,5EF36 and Series 500 steel sleepers with BS113A rail.</p>	 <p>0057/048021</p>	<p>Composite Cover Plates. to provide 4, 8 and 12mm blade thicknesses. Pandrol Part No.2787</p>	 <p>4mm = 0057/048169 8mm = 0057/048170 12mm = 0057/048171</p>
<p>FASTCLIP Type 8690 Sidepost Insulator (Black). 10mm sidepost thickness. For use on the GAUGE side of the BS113A rail when fitted to G44, EG47 and Series 600 and 560H steel sleepers.</p>	 <p>0057/048066</p>	<p>FASTCLIP Type 8582 Sidepost Insulator (Blue). 16mm sidepost thickness. For use on the FIELD side of the BS113A rail when fitted to G44, EG47 and Series 600 and 560H steel sleepers.</p>	 <p>0057/048064</p>
<p>YELLOW(GRN). Type 10275 Insulator. for NRSI baseplates and EG49 with BS113A rail GAUGE side only.</p>	 <p>0057/048081</p>	<p>FASTCLIP Type 8691 Sidepost Insulator (Green). 6mm sidepost thickness. Used in limited areas where oversize CEN-60-E1 rail was supplied. Used in place of the GAUGE side Type 7551 sidepost Insulator.</p>	 <p>0057/048067</p>
<p>COMPOSITE (Nylon with cast iron cover plate) used for: 1. Concrete S&C bearers 2. As a substitute for ORANGE (Nylon) insulators where the wear rate is unacceptable.</p>	 <p>0057/048427</p>	<p>FASTCLIP Type 8914 (White). 8mm sidepost thickness, for use on HH10 and HH12 steel sleepers with CEN60 rail. i.e. Only used with hook-in shoulders. Now superseded by Type 7551 Cat.no. 0057/048021</p>	 <p>Obsolete 0057/048074</p>
<p>Composite Insulators for level and gauge adjustment on slab track installations. Plastic insulators and metal cover plates are combined to give a variety of blade and sidepost thicknesses.</p>		<p>FASTCLIP Type 9373 (Blue). 16mm sidepost thickness, for use on the FIELD side of the 113A rail when fitted to HH10 and HH12 steel sleepers. i.e. Only used with hook-in shoulders. Now superseded by Type 8582 Cat.no. 0057/048064</p>	 <p>Obsolete 0057/048075</p>
<p>Composite (Black). 6mm sidepost thicknesses. Pandrol Part No.2786/1</p>	 <p>0057/048166</p>	<p>FASTCLIP Type 9374 (Black). 10mm sidepost thickness, for use on the GAUGE side of the 113A rail when fitted to HH10 and HH12 steel sleepers. i.e. Only used with hook-in shoulders. Now superseded by Type 8690 Cat.no. 0057/048066</p>	 <p>Obsolete 0057/048076</p>
<p>Composite (Blue). 7.5mm sidepost thicknesses. Pandrol Part No.2786/2</p>	 <p>0057/048167</p>	<p>FASTCLIP Type 8277 (Yellow). 13mm sidepost thickness, for use on HH10 Mark 1 sleepers with Type 9922 hook in shoulders.</p>	 <p>0057/048118</p>

PANDROL® FASTENINGS

Insulator Applications and Colour Coding

Type	Catalogue Number	Type	Catalogue Number
<p>e PLUS Type 9132 Sidepost Insulator. Used with eP 20127 clip on F27, EF28 and W402 sleepers.</p>	 <p>0057/048111</p>	<p>ORANGE (Nylon). 5mm sidepost thickness x 5mm blade thickness Used for: F 23 Series F 24 Series EF 25 Series F 27 Series EF 28 Series EF 29 Series EF 32 Series EF 33 Series F 34 Series F 35 Series Series 400 steel sleepers</p>	 <p>0057/048424</p>
<p>e PLUS Type 9875 Sidepost Insulator. Used with eP 20129 clips on F40 sleepers and RT60 S&C.</p>	 <p>0057/048294</p>	<p>BLUE (Nylon). 5mm sidepost thickness x 5mm blade thickness used where 109lb and 98lb rail is installed. Note: 109lb/98lb rail not to be used with F40 sleepers.</p>	 <p>0057/048423</p>
<p>e PLUS Type 9877 Gauge Management Insulator. 10mm (Black), for use with RT60 layouts.</p>	 <p>0057/048114</p>	<p>WHITE (GRN). Type 2433 5mm sidepost with 8mm blade thickness used with e2001 clip.</p>	 <p>0057/048436</p>
<p>e PLUS Type 9876 Gauge Management Insulator. 6mm (Green), for use with RT60 layouts.</p>	 <p>0057/048115</p>	<p>GREEN (GRN). Type 5720 Insulator for: 1) NRS 1 baseplates and EG49 with CEN60 rail. 2) 6 Hole IBJ's on RT60 layouts.</p>	 <p>0057/048060</p>
<p>e PLUS Type 9903 Toe Insulator. Supersedes, and is interchangeable with, previous white toe insulator Type 7387. Type 9903 was originally coloured blue. NOTE. This insulator is NOT supplied separately, always fitted to the e-PLUS clip types.</p>	 <p>0057/048113</p>	<p>RED (GRN). Type 10274 Insulator for: NRSI baseplates and EG49 with 113A rail FIELD side only.</p>	 <p>0057/048082</p>
<p>BLUE (GRN). 8mm sidepost thickness x 8mm blade thickness used on: F40 sleepers and EG49-113A (1432mm) GAUGE side.</p>	 <p>0057/048027</p>	<p>BROWN (HNV). Type 7583 Insulator for: F40/5F40 concrete sleepers.</p>	 <p>0057/048434</p>

PANDROL® FASTENINGS

PANDROL pads are an important part of the rail fastening system. They provide a conforming layer between the rail seat and the rail, they provide electrical insulation and they protect concrete sleepers from the effects of dynamic impact loading.

- Modern pads are 10mm thick.
- Low stiffness rubber pads are used for 25t axle load concrete sleepers.
- Stiffer rubber pads are used for 30t axle load concrete sleepers to prevent excessive dynamic gauge widening.
- On steel sleepers hard 10mm EVA pads are used.

Pad Identification

Type	Catalogue Number	Type	Catalogue Number
<p>Pad No. 2061/3</p> <p>Thickness: 5mm Material: Flat EVA</p> <p>Usage: Used with W402 sleepers and PAN baseplates.</p>	 <p>57/48521</p>	<p>Pad No. 9970</p> <p>Thickness: 10mm Material: Studded EVA</p> <p>Usage: Used on FASTCLIP steel sleepers with UIC60 rail. Supersedes / interchangeable with 7850.</p>	 <p>57/48077</p>
<p>Pad No. 8531</p> <p>Thickness: 10mm Material: Studded EVA</p> <p>Usage: Used on FASTCLIP steel sleepers 113A rail.</p>	 <p>57/48278</p>	<p>Pad No. 4548</p> <p>Thickness: 10mm Material: Studded Rubber</p> <p>Usage: Used on F40 sleepers.</p>	 <p>57/48028</p>
<p>Pad No. 6650</p> <p>Thickness: 10mm Material: Studded Rubber</p> <p>Usage: Used on FASTCLIP concrete sleepers with 113A rail.</p>	 <p>57/48271</p>	<p>Pad No. 8854</p> <p>Thickness: 10mm Material: Studded Rubber</p> <p>Usage: Used on FASTCLIP concrete sleepers with UIC60 rail.</p>	 <p>57/48254</p>
<p>Pad No. 9286</p> <p>Thickness: 8mm Material: Studded Rubber</p> <p>Usage: Used on F27 and EF28 sleepers when fitting the e-Plus system.</p>	 <p>57/48441</p>	<p>Pad No. 9328</p> <p>Thickness: 10mm Material: Studded Rubber</p> <p>Usage: Used on e-Plus RT60 layouts.</p>	 <p>57/48293</p>
<p>Pad No. 5197</p> <p>Thickness: 10mm Material: Studded Rubber</p> <p>Usage: Used on EG49.</p>	 <p>57/48088</p>	<p>Pad No. 7031</p> <p>Thickness: 10mm Material: Studded Rubber</p> <p>Usage: Used on NRS 1 baseplate.</p>	 <p>57/48613</p>

Other PANDROL® Publications Available



Pandrol Track Fastenings User Guide;
 supplied in pack of 20 booklets only, with Catalogue No. 0050/001305



Pandrol FASTCLIP Track Installation Guide;
 supplied in pack of 20 booklets only, with Catalogue No.0050/001306

Single copies of both publications are available on request from Pandrol.

PANDROL® FASTENINGS

PANDROL handtools are designed by PANDROL to be safely and efficiently used on PANDROL fastening assemblies. Components are accurately cut and hardened to maximise operator safety and tool life.

PANDROL Handtools

<p>FASTCLIP INSTALLER Pandrol No. LP15556 0039/47850</p> 	<p>FASTCLIP EXTRACTOR Pandrol No. LP15151 0039/47851</p> 	<p>FASTCLIP SLEEPER LIFTER Pandrol No. LP12608 0039/47852</p> 
<p>FASTCLIP REAR-ARCH EXTRACTOR Pandrol No. LP15177 not allocated</p> 	<p>VIPA INSTALLER Pandrol No. LP15507 0039/47861</p> 	<p>VIPA EXTRACTOR Pandrol No. LP15511 not allocated</p> 
<p>VANGUARD HYDRAULIC TOOL Pandrol No. LP15647 not allocated</p> 	<p>FASTCLIP HYDRAULIC TOOL Railtech type CDH 16 not allocated</p> 	<p>PANPULLER Type D for PR & e CLIPS Pandrol No. LP7632 not allocated</p> 
<p>PANPULLER Type C for PR & e CLIPS Pandrol No. LP1180 0039/42748</p> 	<p>REPLACEMENT HOOK for Types C & D PANPULLER Pandrol No. 3P2260 0039/42743</p> 	<p>RUSTY CLIP EXTRACTOR for PR CLIPS Pandrol No. LP3169 not allocated</p> 
<p>PANSETTER for PR, e & e-PLUS Pandrol No. 2-P9559 0039/42900</p> 	<p>PANPULLER HOOK WEAR-Gauge Pandrol No. 3-P6536 0039/30100</p> 	<p>e-PLUS PANPULLER Pandrol No. LP15923 0039/42749</p> 
<p>REPLACEMENT HOOK e-PLUS PANPULLER Only Pandrol No. 3P16127 0039/42742</p> 	<p>PANLOCK PULLER Pandrol No. LP8452 0040/60549</p> 	<p>ELASTIC SPIKE EXTRACTOR Jafco Tool Type. SE54BR/0 0039/17090</p> 
<p>WEDGE FOR ELASTIC SPIKE EXTRACTOR Jafco Tool Type. RW12SE 0039/17089</p> 	<p>SIDE ROLLER FC1500L - 56 for 113A rail on FIELD side 0039/47855</p> 	<p>SIDE ROLLER FC1500L - 44 for 113A rail on GAUGE side. 0039/47856</p> 
<p>SIDE ROLLER FC1500L - 52 for CEN60 rail on either side of rail seat. 0039/47857</p> 	<p>VORTOK STRESSING ROLLER for either FASTCLIP or 'e' clip shoulders. FASTCLIP option; 0039/47036</p> 	<p>VORTOK STRESSING ROLLER for either FASTCLIP or 'e' clip shoulders. 'e' clip option; 0094/18031</p> 