




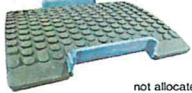
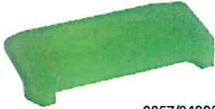


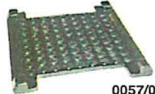

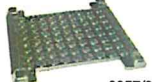



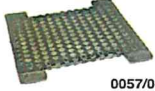

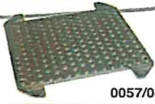

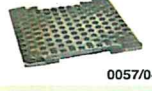

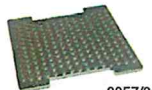
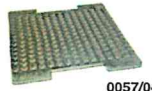
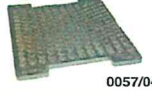
Concrete and Steel Sleeper Assemblies

Sleeper Types(s)	Clip	Insulators	Pad	Design Track Gauge
Current CONCRETE sleepers				
G44, EG47 for 56E1 rails	FC1504 with 8494 toe	FIELD side: 8582 (Blue) GAUGE side: 8690 (Black)	Pad 6650, except: • Curves less than 400m radius, fit EVA type 8531 • Low line speed, fit EVA type 8531	1436mm
G44, EG47 for 60E1/2 rails	FC1504 with 8494 toe	Both sides: 7751 (White)	Pad 8854, except: • Curves less than 400m radius, fit EVA type 9970 • Low line speed, fit EVA type 9970	1438mm
Current STEEL sleepers				
560H for 56E1 rails Note: This sleeper is fitted with hook-in shoulder type 9482	FC1504 with 8494 toe	FIELD side: 8582 (Blue) GAUGE side: 8690 (Black)	Pad 8531	1436mm
560H for 60E1/2 rails Note: This sleeper is fitted with hook-in shoulder type 9482	FC1504 with 8494 toe	Both sides: 7751 (White)	Pad 9970	1438mm
Discontinued / serviceable older CONCRETE sleeper types				
EG49 for 56E1 rails	e2007	FIELD side: 10274 (Red) GAUGE side: 10275 (Yellow)	Pad 5197	1436mm
EG49 for 60E1/2	e2007	Both sides: 5720 (Green)	Pad 5197	1438mm
F41 & EF36	FC1501 with 8494 toe	Both sides: 7751 (White)	Pad 6650, except: • Curves less than 400m radius, fit EVA type 8531 • Low line speed, fit EVA type 8531	1435mm
F40	e1809 or	Both sides: 4452 (Blue), no separate insulator needed for 'RE' system	Pad 4548 or	1432mm
5F40	Re1801-16		Composite 'RE' system pad type 15946	1435mm
Alternative assemblies for F23 to F27, EF28, EF29, EF33 sleepers				
1. Standard toe-loads	PR401A or e1809	56E1 rail: Both sides: 724a (Orange) 98lb or 109lb rails: Both sides: 724a (Blue)	Pad 5mm rubber, or 7.5mm rubber maintenance pad, or EVA Pandrol type 2061/3	1432mm
2. Increased toe-loads	e2001	56E1 rails: Both sides: 2433 (GRNWhite) or 6924 (HVN White)	Pad 5mm rubber or EVA pad type 2061/3	1432mm
3. e-PLUS system	eP20127	56E1 rails: Both sides: 9132	Pad 9286	1432mm
4. Pandrol 'Re' system	Re1609-re-railing only Re1801-7 loose sleeper	56E1 rails: No separate insulator	Composite pad type 14229	1432mm
Discontinued / serviceable older STEEL sleeper types				
HH10 (Mk 2), HH12, for 56E1 rails Shoulder types: • HH10 = shoulder 9922 • HH12 = shoulder 9482	FC1504 with 8494 toe	FIELD side: 8582 (Blue) GAUGE side: 8690 (Black)	Pad 8531	1436mm
HH10 (Mk 2), HH12, for 60E1/2 rails • HH10 = shoulder 9922 • HH12 = shoulder 9482	FC1504 with 8494 toe	Both sides: 7751 (White)	Pad 9970	1438mm
500 Series	FC1501 with 8494 toe	Both sides: 7751 (White)	Pad 8531	1435mm
W402 Series	PR401A or e1809	56E1 rail: Both sides: 724a (Orange)	Pad 5mm EVA	1435mm
HH10 (Mk1) for 56E1 rail	FC1504 with 8494 toe	Both sides: 8277 (Yellow)	Pandrol type 2061/3 Pad 8531	1435mm
Alternative assembly converting HH10 (Mk1) to FASTCLIP system using shoulder type 9922				
Conversion of obsolete fastenings on very old concrete sleepers				
<p>The following obsolete sleepers may be converted to Pandrol 'e' clip assemblies:</p> <ul style="list-style-type: none"> • F10 using BJB fastenings • RNB6 also known as KENITRA sleepers • HEYBACK sleepers 		<p>Whilst conversions have been available and undertaken in large volumes in the past, the components are no longer readily available, generally regarded as uneconomic and anyone attempting this process should contact Pandrol directly for advice.</p>		

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Insulator and Rail Pad Applications with Colour Coding

Type	Catalogue Number	Type	Catalogue Number
Yellow (HVN) Type 10275 Insulator for 56E1 on GAUGE side of: 1. NRS1/NRS2/Combi baseplates. 2. EG49 concrete sleepers.	 0057/048081	Pad No. 15946 Used as part of the 'Re' system on F40 or 5F40 sleepers for re-railing or loose sleeper relaying. 10 mm studded and curved rubber pad which is permanently bonded to side insulators. The insulators allow the pads to be stacked and 'nested' for easy packing and handling.	 not allocated
Green (HVN) Type 5720 Insulator for use with 60E1 rail using: 1. NRS1/NRS2/Combi baseplates with 60E1 rail. 2. 6 Hole IBJ's on NR60 S&C, EG49 Concrete sleepers.	 0057/048060	Pad No. 2061/3 Thickness: 5mm Material: Flat EVA Used with W402 sleepers and PANbaseplates. Can also be used with concrete sleeper types: F23, F24, EF25, F27, EF28, EF32, EF33, F34, F35.	 0057/048521
Composite (Nylon with cast iron cover plate) for: 1. Concrete S&C bearers. 2. As a substitute for ORANGE (Nylon) insulators where the wear rate is unacceptable. NOTE: This insulator is not commonly available, and can be replaced with Pandrol type 6924 provided this is used with clip type e2001.	 0057/048427	Pad No. 9970 Thickness: 10mm Material: Studded EVA Used on FASTCLIP steel sleepers with 60E1 rail. Supersedes / interchangeable with 7850.	 0057/048077
Composite (Black) Type 2786/1 6mm sidepost thicknesses.	 0057/048166	Pad No. 8531 Thickness: 10mm Material: Studded EVA Used on FASTCLIP steel sleepers 56E1 rail.	 0057/048278
Composite (Blue) Type 2786/2 7.5mm sidepost thicknesses.	 0057/048167	Pad No. 4548 Thickness: 10mm Material: Studded Rubber Used on F40 and 5F40 sleepers.	 0057/048028
Composite (Red) Type 2786/3 9mm sidepost thicknesses.	 0057/048168	Pad No. 6650 Thickness: 10mm Material: Studded Rubber Used on FASTCLIP concrete sleepers with 56E1 rail.	 0057/048271
Composite Cover Plates Composite cover plates Type 2787, to provide 4, 8 and 12mm blade thicknesses.	 4mm = 0057/048169 8mm = 0057/048170 12mm = 0057/048171	Pad No. 8854 Thickness: 10mm Material: Studded Rubber Used on FASTCLIP concrete sleepers with 60E1 rail.	 0057/048254
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.	 Catalogue Number depends upon insulator and cover plates selected	Pad No. 9286 Thickness: 8mm Material: Studded Rubber Used on F27 and EF28 sleepers when fitting the e-Plus system.	 0057/048441
Pad No. 14229 Studded EVA rail pad 8mm thick bonded to HVN side insulators of 5.5mm thick. Used with 'Re1609' or 'Re1601-7' clips on older sleeper types, F23 to F27, EF28, 5EF28, W402, HH10 (Mk1).	 0057/048470	Pad No. 9328 Thickness: 10mm Material: Studded Rubber Used on e-Plus RT60 and NR60 layouts.	 0057/048293
		Pad No. 5197 Thickness: 10mm Material: Studded Rubber Used on EG49 sleepers with either 56E1 or 60E1 rails.	 0057/048088
		Pad No. 7031 Thickness: 10mm Material: Studded Rubber Used on NRS1, NRS2, and Combi baseplates.	 0057/048613

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