

FAST CLIP



The Pandrol Fast Clip system is a resilient, threadless rail fastening system, suitable for application on concrete, steel, or timber ties, or slab track. The unique switch-on-switch-off system enables fast, efficient track installation and reduced maintenance costs. Pandrol SA (Pty) Fast Clip has been designed as a total system, in which all components are delivered to the site preassembled on the sleeper or baseplate. Once the sleepers are laid, and the rail installed, the clip is simply pushed onto the rail utilizing a simple driven action.

CONSTRUCTION OF 'FE' ASSEMBLY

Components:

1. Clip and toe insulator

- Nominal toe load of 1,000-1,250kg per clip based on customer requirements.

2. Cast Shoulder

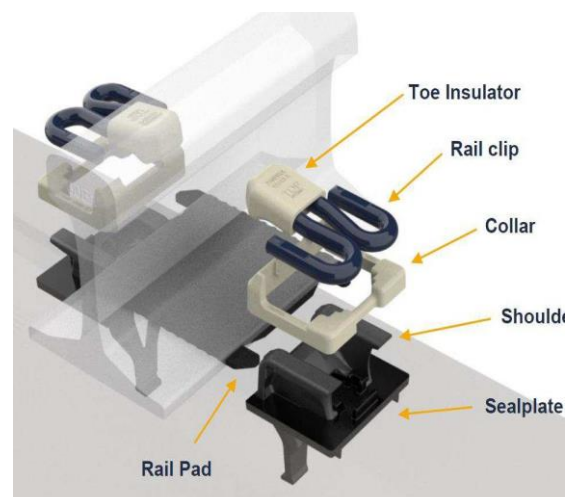
- Made from spheroidal graphite cast iron.
- Excellent gauge retention
- Low profile providing high lateral impact resistance.

3. Collar

- High lateral stiffness & durability give excellent gauge retention
- Excellent electrical insulation.
- Different widths available for dual-rail/gauge widening where required.

4. Studded EVA rail pad

- Rail pad provides high impact attenuation, preventing high dynamic forces being transmitted to the sleepers and ballast. Other pad types such as studded or grooved rubber, PU and HDPE are optional.



CONSTRUCTION OF 'FC' ASSEMBLY

1. Clip and toe insulator

- Nominal toe load of 1,000-1,250kg per clip based on customer requirements.

2. Cast Shoulder

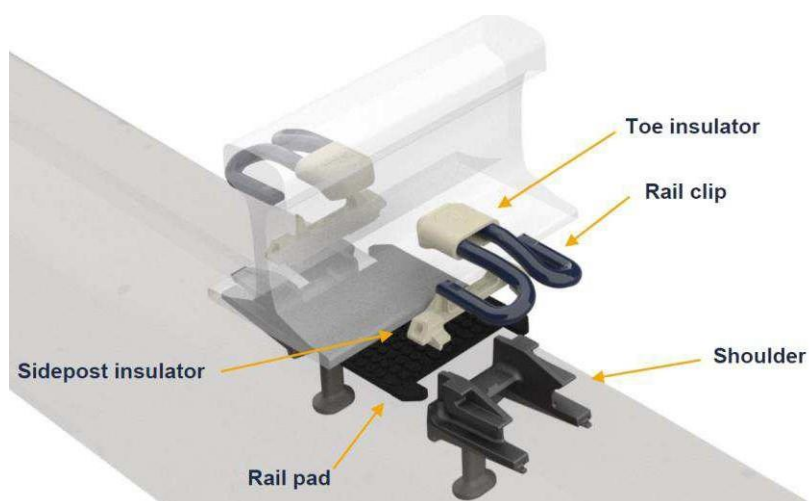
- Made from spheroidal graphite cast iron.
- Same modulus of elasticity as pre-stressed concrete.
- Stresses can be transferred through the anchor.
- Typical extraction resistance of 130KN.
- Will not deform under load, hence excellent gauge retention.

3. Side Post Insulator

- High lateral stiffness & durability give excellent gauge retention.
- Very durable – proven in track to at least 750MGT.
- Excellent electrical insulation.

4. Studded EVA rail pad

- Specially designed resilient rail pads provide low stiffness and low damping at high frequencies. This prevents high dynamic forces being transmitted to the sleepers and ballast, protecting them from damage and prolonging their life cycle.



FAST CLIP GAUGE SETTING TABLE

PANDROL GAUGE SETTING TABLE FOR UIC60kg RAIL ON PY AND FASTCLIP SLEEPERS						
SLEEPER	RAIL	OUTER	INNER	GAUGE	INNER	OUTER
PY	UIC60 / 60E1	UIC60/11/13	UIC60/00/04	1058	UIC60/00/04	UIC60/11/13
		UIC60/06/09	UIC60/06/09	1062	UIC60/00/04	UIC60/11/13
		UIC60/06/09	UIC60/06/09	1066	UIC60/06/09	UIC60/06/09
		UIC60/00/04	UIC60/11/13	1071	UIC60/06/09	UIC60/06/09
		UIC60/00/04	UIC60/11/13	1076	UIC60/11/13	UIC60/00/04
PYF+ Fastclip (ORE Line)	UIC60 / 60E1	12mm	7mm	1067	7mm	12mm
		7mm	12mm	1072	7mm	12mm
		7mm	12mm	1077	12mm	7mm
PYF- Fastclip (COAL Line)	UIC60 / 60E1	7mm	12mm	1067	12mm	7mm
		12mm	7mm	1062	12mm	7mm
		12mm	7mm	1057	7mm	12mm