

# Fastclip FCA

## Fastening Systems

### Adding Value

Bowshank Tunnel – UK  
Customer: Network Rail, 2015

“ Laying the slab track is an essential part of the preparation works ahead of the track laying taking. We are looking forward to marking many more exciting milestones. ”



The Fastclip FCA rail fastening is designed for use on slab tracks where vertical adjustment is required and does so without the need for a baseplate. The product can be pre-assembled and delivered to site captive on the pre-cast element, providing substantial cost savings.

Pandrol have created rail infrastructure in more than 100 countries, with the ability to deliver the highest quality industry standard to the most special of applications.

## → TECHNICAL FEATURES

### Optimised for ballastless tracks

The Fastclip FCA system is suitable for use with all forms of pre-cast elements, including mono block, independent blocks and slab panel. Pre-cast elements may be cast-in or resiliently mounted.

### Custom stiffnesses

Track stiffness to suit typical CEN track categories A, B, C and D applications. Custom stiffnesses can be provided.

### Highly adjustable

Lateral adjustment of  $\pm 5$  mm per rail seat can be facilitated by custom side-post insulators. Vertical adjustment of + 20 mm is facilitated by custom components and shims.

### Fully pre-assembled

The Fastclip FCA system can be delivered to site fully pre-assembled (captive) on pre-cast concrete elements.

### Highly evolved

Fastclip FCA is an adjustable evolution of the globally trusted Pandrol Fastclip product. Component materials are based on long established Pandrol specifications. Low clamping force, joint-bar and rail-free variants are available to meet special track needs.

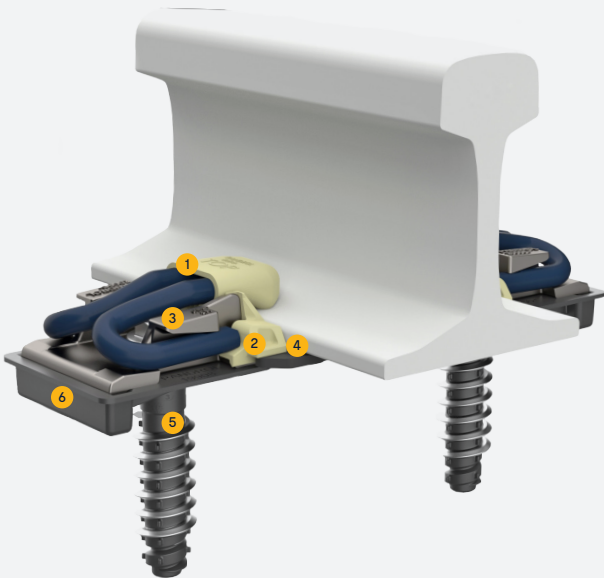
### High electrical insulation

The Fastclip FCA assembly offers high levels of electrical insulation, reducing the risk of track circuit failure.

→ ADVANTAGES /

- The Fastclip FCA assembly has multiple retrofit options for increasing noise and vibration mitigation if required after installation. The compatible solutions require no additional disruption to the slab.
- All Pandrol Fastclip products are optimised for mechanised installation. This reduces the time and manpower required for installation and reduces the length of possession windows for maintenance.

- The assembly is designed to 'fit and forget' requiring visual inspection only for the lifecycle of the product. Not needing to check torque reduces the requirement for track possession and maximises the uptime of the network.



→ COMPONENTS /

1. Clip and toe insulator (Rail-free and zero toe load options available)
2. Side-post insulators
3. Cast iron shoulders
4. Rail pad
5. Anchor screws with plastic inserts
6. Plastic construction plates

→ SPECIFICATIONS /

Type of system

- Indirect    Direct

Suitable for application

- Tram    LRT    Metro  
 ML    HS    HH

Applicable CEN track categories\*

	Min Rad	Max Axle	
Cat A	40 m	130 kN	✓
Cat B	80 m	180 kN	✓
Cat C	150 m	260 kN	✓
Cat D	400 m	260 kN	✓

\* Based on EN 13481-5:2012

LEARN MORE

