

# Fastclip FC

## Rail fastening system

- Rapid installation capability (up to 70 sleepers per minute)
- Pre-assembly and captive on sleeper
- Threadless, self tensioned fastening
- Suitable for all track categories

### Application data (Standard products – special variants may differ)

Rail inclination	As provided in the sleeper					
Pad type	Please consult Pandrol for appropriate pad types against operating requirements					
Typical applications	Light rail, Metro, general main line, mixed traffic, heavy haul and high speed					
Clip type	Pandrol Fastclip FC1500				Pandrol Fastclip FC1600	
EN 13481-2 fastening category	Cat A	Cat B	Cat C	Cat D	Cat E	Cat E or greater
Maximum axle load*	130 kN	180 kN	260 kN	260 kN	350 kN	For max axle load/ radius please consult Pandrol
Minimum curve radius*	40 m	80 m	150 m	400 m	150 m	

\* For special applications consult Pandrol.

### Typical performance data\* As identified by Track Category in EN13481-2

	Cat A	Cat B	Cat C/D	Test method	Remarks
Assembly static stiffness	>70-210 kN/mm	>80-220 kN/mm	>95-250 kN/mm	EN 13146-9:2011	Dependent upon pad selection
Assembly dynamic stiffness	>80-280 kN/mm	>90-310 kN/mm	>110-400 kN/mm	EN 13146-9:2011	
Impact load attenuation	≤ 30-50%			EN 13146-3:2012	
Electrical insulation	>5 kΩ			EN 13146-5:2012	

	FE1400 Series	FE1500 Series	
Nominal toe load	1000 kgf	1250 kgf	In clip driving feature
Clamping force	>16 kN	>20 kN	EN 13146-7:2012
Creep resistance	>7 kN	>9 kN	EN 13146-5:2012

### → COMPLIANCE WITH STANDARDS

Pandrol Fastclip FC1500 series fastenings are compliant with the requirements of EN13481-2:2012 and the High Speed Interoperability Directive (TSI). Pandrol Fastclip FE1600 series fastenings are compliant with the requirements of EN13481-2:2012 – 'Fastening systems for track with heavy axle loads'. Some configurations of Pandrol Fastclip FE1500 and FE1600 series fastenings are compliant with the requirements of AREMA Manual Chapter 30 Part 4.

### → NOTE

Pandrol is a provider of innovative custom rail fastenings. Data in this document indicates typical performance. Actual performance is dependent on a range of external factors. Please contact us to discuss how Pandrol can tailor products to suit local operating conditions and specific requirements. Technical information in this document was correct at time of printing. Improvements may since have been introduced as a result of our continuous research and development programmes.

#### Learn more



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