

Fastclip FC /

Rail fastening system

 Rapid installation capability (up to 70 sleepers per minute)

- Threadless, self tensioned fastening
- Suitable for all track categories

 Pre-assembly and 	captive on sleeper
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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/		
Minimum curve radius*	40 m	80 m	150 m	400 m	150 m	radius please consult Pandrol		

* 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			
Assembly dynamic stiffness	>80-280 kN/mm	>90-310 kN/mm		>110-400 kN/mm	EN 13146-9:2011	upon pad selection			
Impact load attenuation	≤ 30-50%			EN 13146-3:2012					
Electrical insulation	>5 kΩ			EN 13146-5:2012					
	FE1400 Series FE1500 Se		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				

ightarrow 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.

\rightarrow 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.

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