

SD System

Rail fastening system

- Optimised for use on concrete sleepers
- Suitable for retrofit
- Suitable for mechanised/automated installation
- Arrives pre-assembled and captive on sleeper

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	LRT/Metro, Main Line, High Speed			
Clip type	Pandrol SD clip			
EN 13481-2 fastening category	Cat A	Cat B	Cat C	Cat D
Maximum axle load*	130 kN	180 kN	260 kN	260 kN
Minimum curve radius*	40 m	80 m	150 m	400 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	
Nominal toe load	1000 kgf			In clip driving feature	
Clamping force	>16 kN			EN 13146-7:2012	
Creep resistance	>7 kN			EN 13146-5:2012	

→ COMPLIANCE WITH STANDARDS

Pandrol Fastenings are tested against standards published by the European Committee for Standardisation (CEN).

→ 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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