

e-Clip

Rail fastenings

The well-known elastic threadless rail fastening with configuration options to offer solutions for most applications.

Key classifications

Ballasted

Non-threaded

Fit and forget

Typical interface type

Pre-cast concrete sleepers	✓
Timber/Polymeric sleepers	✓
Steel sleepers	✓

Specific requirements?

Pandrol can provide products with performance characteristics to suit customer specifications. Please contact us to discuss your requirements.

Typical application parameters

Typical track type	Light rail / Tram	Urban / Metro	Conventional main line	Main line / High speed	Mixed traffic / Heavy freight
EN 13481 fastening category	A	B	C	D	E
Maximum axle load (kN)	130	180	260	260	350
Minimum curve radius (m)	40	80	150	400	150

Typical assembly performance data

Static stiffness (kN/mm) *	>50	>60	>60	>60	>150
Dynamic stiffness (kN/mm) *	>70	>80	>80	>80	>200
Clamping force (kN) *	>16	>16	>16	>16	>20
Longitudinal restraint (kN) *	>9	>9	>9	>9	>9
Electrical resistance (kΩ) *	>5	>5	>5	>5	>5
Lateral adjustment per rail (mm)	+/-5**	+/-5**	+/-5**	+/-5**	+/-5**

→ NOTES

The data given in this document indicates typical performance of the product at the time of publication, but exact performance depends on specific configuration and may change over time as a result of continuous product development.

* Based on EN 13146 test methods. For specific test or standards requirements please consult Pandrol.

** Depending on product configuration.

Learn more



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