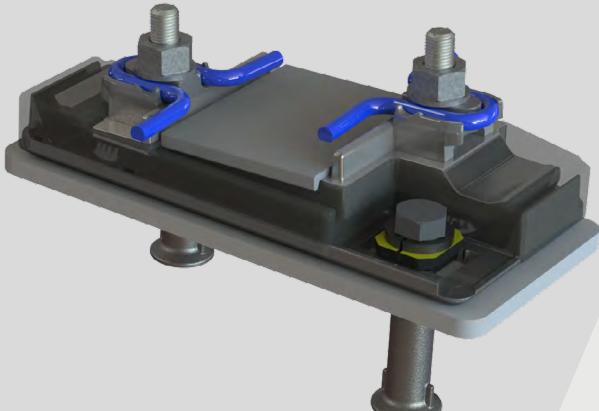


Standard Bonded Baseplate

Fastening Systems



Pandrol's Standard Bonded Baseplate reduces ground-borne vibrations caused by the major dynamic forces generated by passing trains.

This versatile system can be used on both standard track and turnouts. A single fastening system can be used for the whole track, as the standard model is designed for running track and customised models are designed for switching zones.

The Standard Bonded Baseplate provides both vertical and lateral stiffness via two independent cast baseplates. A one-piece bonded system (comprised of a top and bottom plate) is factory assembled by bonding with vulcanised rubber. This provides high levels of electrical resistance, long electrical leakage path and lateral resilience.

→ TECHNICAL FEATURES

Variable baseplate options

Available in two and four-hole offset and two-hole line footprint configurations. This gives the best possible solution for new build, track renewal and retrofit applications.

Widely compatible

The Standard Bonded Baseplate is available with a variety of clip types, including e-Clip, SD, SKL and Nabla.

Electrical insulation

The system's unique bonding process achieves very high levels of electrical resistance and long electrical leakage paths.

Turnout options

The baseplate comes in a variety of lengths and options to suit all turnout applications. The system is also suitable for steel bridges and ballasted tracks.

Track-structure interaction

Rail fastening clips are available in low toe load and zero longitudinal restraint (ZLR) configurations. This makes the system ideal for use on bridges and viaducts where the effects of track-structure interaction need to be considered.

Safety anchor

The Standard Bonded Baseplate has a strong anchor with a highly resistant anti-rotation feature for safer installation and easy replacement through screwing.

High adjustability

Easy lateral and vertical adjustments, with highly resistant large prongs for safer installation. The range of adjustability is high, with a lateral adjustment of ± 12 mm and a vertical adjustment of + 10 mm. Other adjustments can be done on request.

Robust and long-lasting

Due to its rubber composition, the baseplate is extremely resilient and robust, resulting in an extended product lifespan.

→ ADVANTAGES

- The system's low stiffness decreases the dynamic load level by reducing vibrations transmitted to the ground and distributing them along the supports. As a result, vibrations are isolated and the noise generated by moving wheels on the rail is attenuated.
- The Standard Bonded Baseplate has particularly high corrosion resistance. The plate is covered with rubber which acts as a protective barrier between the baseplate and the atmosphere.
- The system provides good track elasticity and a specific longitudinal rail restraint which can be an advantage when controlling the stress in the rails on bridges.

- The system provides electrical insulation for the rail, isolating it from the track bed and avoiding electrical leakage into the ground. In addition to this, the system has a high level of stray current protection.
- Installation is simple, requiring only one person with hand tools for either the entire assembly or the replacement of components. Methods of installation include top-down and bottom-up techniques with the possibility for compact and lateral/vertical adjustments.
- No maintenance required during the product's lifetime.



→ COMPONENTS

1. Hexagon nut	8. Adjustment bushing
2. Flat washer	9. T-bolt
3. SD clip	10. Bonded baseplate
4. SD shoulder	11. Construction shim
5. Rail pad	12. Cast anchor insert with plastic plug
6. Hexagon bolt	
7. Grower washer reinforced	

→ SPECIFICATIONS

Assembly performance data

Recommended categories	B, C
Type of track	Slab
Rail inclination	1/20, 1/40
System type	e-Clip, SD, SKL, Nabla
Static stiffness	7 - 30 MN/m
Dynamic stiffness	9 - 40 MN/m
Lateral adjustment	± 12 mm
Vertical adjustment	+ 10 mm
Gauge adjustment	± 24 mm
Weight	17.6 kg
Anchor diameter	24 mm
Dimensions (L x l x h)	430 x 195 x 74 mm

Performance values can be varied, depending on product configuration. For any other configuration, please contact us.

Standard compliance

- EN 13481
- EN 13146

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