

# Fastclip Baseplate

Fastening Systems



Pandrol's Fastclip Baseplate takes the best aspects of the company's design combining safety, durability and the latest technology into a compact package that is reliable, easy to build and maintain. It is a captive assembly for non-ballasted track applications.

Offering a range of both vertical and lateral adjustments – the baseplate can be configured where such adjustments can be made quickly and easily and with a minimum of additional components.

It can be used with all typical track construction methods and configured for various track stiffness and rail clamping force requirements.

## → TECHNICAL FEATURES

### **Lateral adjustment**

Providing lateral adjustment typically in the range up to  $\pm 12$ mm per rail seat (or up to  $\pm 24$ mm on track gauge).

Lateral adjustments can be made quickly and easily, and no components need to be exchanged. There is no need to disassemble the fastening in order to make lateral adjustments. Stepless lateral adjustment is also possible, such that the absolute position of the rails can be set at the track build stage and also during track maintenance activities.

### **Option for pre-assembly**

The baseplate can be supplied as captive pre-assembled units. For use on pre-cast concrete elements, these units can be positioned and then tightened into their precise alignment. For use with top-down, wet-pour track construction methods, the pre-assembled units are hung from the rails prior to the concrete being poured to the required level.

### **Low rolling noise**

The baseplate has been developed to provide a stiffness characteristic that results in low rolling noise.

### **Track-structure interaction**

The product is available in low toe load or zero longitudinal restraint (ZLR) configurations. Perfect for use on special bridge and viaduct applications.

### **Vertical adjustment**

Providing vertical adjustment up to  $+70$ mm, by means of fitting shims underneath the assembly. No parts need to be exchanged or added to make vertical adjustments, other than the shims and the need for longer anchor screws at intervals within the  $70$ mm range.

Vertical adjustments can typically be made without the need to disassemble the fastening fully. Untightening the anchors is sufficient to allow all but very large vertical adjustments to be made.

## → ADVANTAGES

- **Option for pre-assembly**

This results in reduced distribution and handling costs

- **Low rolling noise**

This is due to the stiffness characteristic that has been built into the product

- **Highly configurable assembly**

Meaning the product will suit a wide-range of customer requirements with regard to stiffness, vertical and lateral adjustment, clamping force and longitudinal restraint



## → COMPONENTS

1. Clips and toe insulators (low toe load and ZLR options available)
2. Side-post insulators
3. Cast iron baseplate
4. Rail pad
5. Baseplate pad
6. Anchor screws with inserts.

## → ROBOTIC ASSEMBLY



Compatibility with the use of robots to fit preassembled units to pre-cast concrete elements.

## → SPECIFICATIONS

### Track type

- ☐ Ballasted ☒ Non-ballasted

### Base type

#### Ballasted Track

- ☐ Pre-cast concrete sleepers  
☐ Timber or polymer composite sleepers  
☐ Steel sleepers

#### Non-ballasted Track

- ☒ Pre-cast blocks  
☒ Pre-cast slab panels  
☐ Steel sleepers  
☒ Pre-cast sleepers  
☒ Direct concrete pour

### Fastening classification

- ☐ Threaded ☒ Non-threaded  
☒ Captive ☐ Non-captive

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