

Vortok Telescopic and Fixed Safety Barrier (Assembly instructions)

Separates People from Train Movements - Quick & easy installation without tools or equipment.
Fits all AC, DC, and non-electrified track.



Telescopic Barrier (111-0001 Pandrol 094/002001 Network Rail) Fixed Barrier (111-0003 Pandrol & 094/019031 Network Rail)

Barrier Type	Offset from Running Rail	Rail type	Pandrol Part Number	PADS No
Telescopic Barrier-Standard	1.25m (4ft)	Flat Bottom/ BullHead	111-0001	094/002001
	2.0m (6ft 6)			
Fixed Barrier-Shoulder Clearance	1.25m (4ft)	Flat Bottom	111-0003	094/019031

1. Applications

The following application restrictions apply to Safety Barrier:

- Do not fit barrier where it may interfere with movable parts such as switch blades or signal rodding.
- Ensure that the rail clamp is not placed on the rail in the vicinity of an insulated block joint (IBJ).
- Care must be taken at heavily canted sites that the barrier height does not fall outside acceptable limits.
- At conductor rail sites do not assemble, disassemble, or move during heavy rain or when equipment is very wet.

2. Pre-Use Checks

Complete the following pre-use checks prior to deployment:

- Ensure no part of the equipment is damaged.
- Check free movement of clamp and that the rubber bungee is not damaged.
- Ensure that the telescopic section (where applicable) is fully compressed and that the locking pin is in place.
- Check to ensure that there is no heavy scoring of the insulated section of the arm.

Important: Use only undamaged parts.

3. Fitting the Rail (Figure 1)

- Remove the ballast under the rail at the point of clamping, so that there is a gap of at least 10 cm between the rail foot and the track bed.
- Clamp spacing approx. 2.5 m – 2.7 m (4 sleepers between clamps)

Attention: Assemble, disassemble, and move only when both parts of the telescopic connection are pushed completely into one another and secured by a spring pin.

All work should be carried out in accordance with the site-specific Method Statement and COSS instructions.

4. Telescopic Function (111-0001 Pandrol & 094/002001 Network Rail)

When using the Telescopic Barrier, the position from the running rail can be set in two positions; 1.25m and 2.0m from the running rail. Adjust to the required position based on local network rules.

5. Fitting the blue poles

Hold the upright in one hand. Snap the pole into the clip with the other hand supporting frame if necessary (Figure 2).

6. Attaching Lighting

Lighting may only be attached to Vortok Barrier with the Vortok Light Mast Support Bracket (PADS no. 94/019037) (Figure 4). Tie-wraps and other attachment methods are not permitted.

6. Transport

Transport the equipment whenever possible in the special stillages.

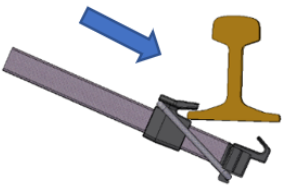
- Horizontal Assemblies - telescopic connection are collapsed and secured by the spring pins.
- Put the poles into the special frame and strap with a belt.
- Do not undertake manual handling of this stillage. Use only approved methods for both movement of stillage and for handling its contents. Loaded stillages weigh from 220-500kg

United Kingdom

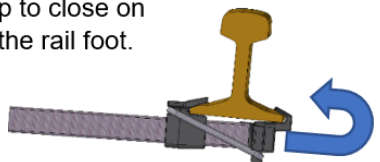
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Fitment & Removal to Flat Bottom Rail

1. Hook the clamp onto the foot of the rail
2. Push against the rail foot in the direction of the arrow until clamp opens fully



3. Rotate the barrier arm and allow the clamp to close on the far side of the rail foot.

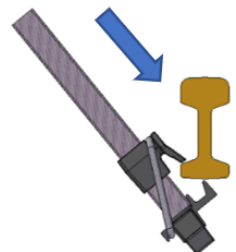


The barrier is now fitted.

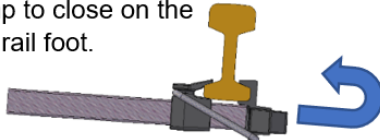
Fitment & Removal to Bull Head Rail

(Ensure correct end fittings is selected for bull head)

1. Hook the clamp onto the foot of the rail
2. Push against the rail foot in the direction of the arrow until clamp opens fully



3. Rotate the barrier arm and allow the clamp to close on the far side of the rail foot.

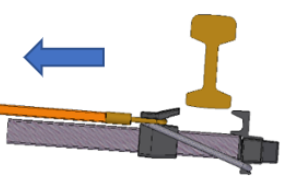


The barrier is now fitted.

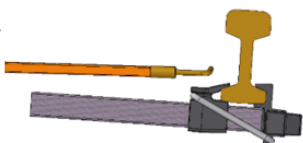
Fitment & Removal to Bull Head Rail in third rail areas

Where a third rail prevents fitment use the fully insulated cocking lever

1. Use the cocking lever to pull back the clamp jaw
2. Lift the barrier arm up underneath the rail foot



3. Release the jaw and remove the cocking lever.



The barrier is now fitted.

Installation Aid - Cocking Lever (111-1001)

Figure 1 Fitting to the rail.



7. Product Information

Components	Mass	Stillage Information for 250m	
Telescopic barrier metal upright	2.4kg	Stillage 1	Quantity 101 Units
Telescopic GRP arm	4.2kg	Stillage 2	Quantity 101 Units
3m Blue Pole	2.3kg	Stillage 3	Quantity 200 Units

Fixed barrier metal upright	3.8kg	Stillage 1	Quantity 101 Units
Fixed GRP arm	2.5kg	Stillage 2	Quantity 101 Units
3m Blue Pole	2.3kg	Stillage 3	Quantity 200 Units

8. Accessories

Safe Access Gate (111-1016 Pandrol 094/002001 Network Rail), Figure 3. Provides controlled access point.
Corner Post (111-1019 Pandrol 094/002001 Network Rail), Figure 5. Allows blue poles to be fitted at 90° to barrier to provide end closure to work site.



Figure 2 Fitting the Blue Poles



Figure 3 - Safety Barrier Gate



Figure 4 Light adaptor installation



Figure 5 - Corner Post