

Among the advantages of steel mounted track systems are:

- Less ballast depth
- Can be installed directly onto scarified and level ballast
- 20% saving in ballast
- Improved tamping and positional stability
- Lower weight capable of single lift with all rail work in position
- Ease of assembly
- Wheel damage tolerant
- Re-cyclable
- Environmentally friendly compared with hardwood timber and concrete
- Do not bio-degrade compared with timber
- More consistent vertical alignment, no changes from one sleeper type to another
- Reduced time to track opening
- General advantages of steel bearers, can be stacked and handled more efficiently



Steel Bearer Products



Steel Sleepers manufactured by Corus Rail exist in a range of sizes and clip types and can be summarised:

- Series 400 Sleeper, Pandrol e-clip, weld-on shoulders, BS113A rail
- Series 500 Sleeper, Pandrol Fastclip, BS113A rail
- Series 560 Sleeper, Pandrol Fastclip, BS113A/CEN60 rails
- Series 600 Sleeper, Pandrol Fastclip, CEN60/113A rails



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Corus Cogifer Switches and Crossings Limited manufacture and supply a range of track assemblies mounted on steel bearers.

These products augment the steel sleepers supplied by Corus Rail.



Guard Rail Sleepers for Protection of Bridges and Viaducts

On bridges and viaducts where the consequences of a derailment could be exceptionally serious, a safety device known as a guard rail may be necessary.

Traditionally these guard rail assemblies and the ramp rail assemblies at the track entrance have been only available on wooden bearers.

Corus Cogifer has now developed a range of steel sleeper guard and ramp rail assemblies on steel sleepers.

The full range of Corus Rail steel sleepers (400, 560 and 600) can have a single or a double weld-on shoulder attached so that the sleepers can carry a single or double guard rail.

Adjustment Switches

BS113A adjustment switches machined to RE/PW/241 can now be mounted on spaded steel bearers. The rail work is identical to the traditional timber mounted switches and uses similar baseplates and fittings, with the addition of clip insulators and rail pads as used on approved concrete bearer adjustment switches.

Corus Cogifer Drawing No. 6909SC
Railtrack Certificate of Acceptance PA05/269

Approval is also being sought from Network Rail for CEN60 adjustment switches on steel bearers to augment our already extensive product portfolio.

Turnouts and Crossovers

Approval has been granted by Network Rail to manufacture and supply BS113A vertical turnouts mounted on steel bearers. Historically Corus Cogifer, and formerly Grant Lyon Eagle, supplied a range of steel bearer mounted turnouts and crossovers for heavy haul and overseas markets. Steel mounted turnouts were installed on British Rail track at Eaglescliffe but developments although successful were not pursued at the time.

The modern Corus Cogifer designs comply with the present RE/PW range of vertical turnouts and the rail work and fittings are identical. They can be supplied with full depth or asymmetric switches and either fabricated or cast crossings.

Additionally comprehensive safety reviews in conjunction with Network Rail have been carried out to address concerns over insulation, mounting of HW2000 point machines and associated signalling equipment.

