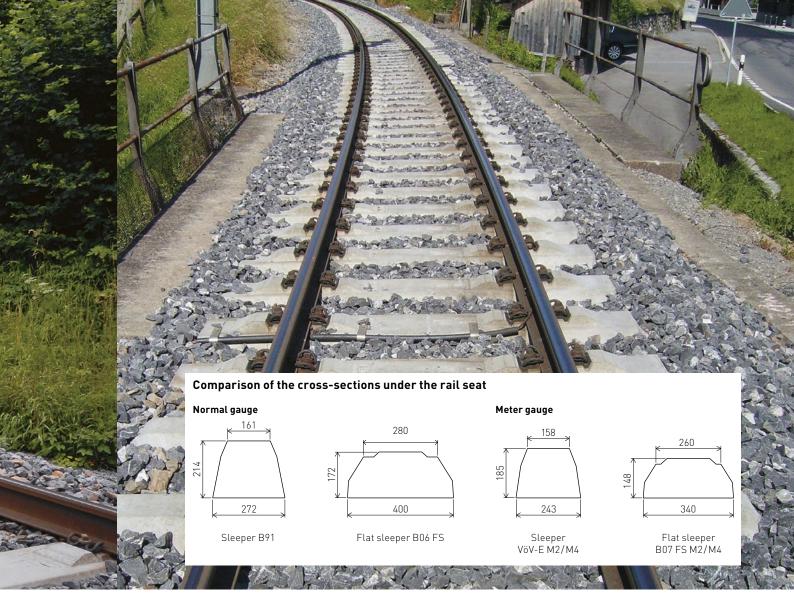


The flat sleeper increases the economic efficiency of ballasted track. It is available for normal and meter gauge railway tracks and offers all the advantages of standard concrete mainline sleepers. At the same time the superstructure requires less maintenance.

Flat sleepers reduce the contact pressure between sleeper and ballast. They are wider and less height than standard concrete mainline sleepers. As a result, loads are distributed better into the ground. The ballast is therefore put under less strain and the tamping intervals can be extended.

These benefits can be further enhanced if the flat sleeper is equipped with elastic footing.

| TECHNICAL DATA | NORMAL GAUGE | | METER GAUGE |
|--------------------------------|----------------|----------------|------------------------|
| Sleeper types | B06 FS | B21 FS | B07 FS M2 / M4 |
| Admissible axle load | 225 kN | 225 kN | 160 kN |
| Track gauge | 1435 mm | 1435 mm | 999 mm/1000 mm/1002 mm |
| Mostly used rails | 54 E 2, 60 E 1 | 54 E 2, 60 E 1 | 54 E 2/49 E 1/46 E 1 |
| Inclinations of rail seat | 1:40 | 1:40 | 1:20 (M2) / 1:40 (M4) |
| Fastenings | Vossloh W14 | Vossloh W14 | Vossloh W14 |
| Sleeper length | 2600 mm | 2400 mm | 2000 mm |
| Sleeper width | 400 mm | 400 mm | 340 mm |
| Sleeper height under rail seat | 172 mm | 172 mm | 148 mm |
| Weight with fastening | 361 kg | 334 kg | 204 kg |
| Spacing | 600 mm | 600 mm | 600 mm |



Characteristics

- Cost savings in maintenance because of increased tamping intervals, as the ballast is put under less strain due to lower contact area pressure.
- The subsoil is protected.
- Under stable subsoil conditions, the ballast height can be reduced.
- The lower sleeper height permits a reduction of the superstructure profile. This means that the sleepers can be better applied for tunnel renovations and bridge areas.
- The lateral resistance is increased in comparison with standard concrete mainline sleepers.

Installation

You can install the flat sleepers using your tested machinery and techniques. To do so you merely need to make a few small adjustments in installation and construction-site logistics and in tamping technology.





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