

# Concrete Sleepers Rail.pdf

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## [Track \(rail transport\) - Wikipedia](#)

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A disadvantage of traditional track structures is the heavy demand for maintenance, particularly surfacing (tamping) and lining to restore the desired track geometry and smoothness of vehicle running. Weakness of the subgrade and drainage deficiencies also lead to heavy maintenance costs.

## [Concrete and Steel Sleeper Assemblies - Unipart Rail](#)

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## [Permanent way \(history\) - Wikipedia](#)

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The permanent way is the elements of railway lines: generally the pairs of rails typically laid on the sleepers ("ties" in American parlance) embedded in ballast, intended to carry the ordinary trains of a railway. It is described as permanent way because in the earlier days of railway construction, contractors often laid a temporary track to transport spoil and materials about the site; when ...

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