

# RAILWAY SLEEPERS

## Rocla® Concrete Sleepers

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Rocla® pre-stressed concrete railway sleepers are manufactured for all rail gauges and terrain conditions, for use in commuter, freight, heavy haul and light-rail/railway lines.

Each sleeper is produced to design specification and testing is conducted on a daily basis to ensure product quality is maintained.

### Cast-in Fasteners

Virtually any rail fastening system, including Pandrol eClip and Fastclip, can be cast into Rocla® sleepers and specialty products.

Rocla also developed the Multilok™ fastener system, currently the only rail fixing method for concrete sleepers that permits lateral and rotational adjustment on site without drilling.



### Mainline Sleepers

Mainline sleepers for new or replacement tracks are rated by RailCorp NSW and Australian Rail Track Corporation (ARTC) at 30-tonne axle load (heavy duty) and 25-tonne axle load (medium duty). Both are generally designed to AS1085.14, RailCorp and ARTC specifications.



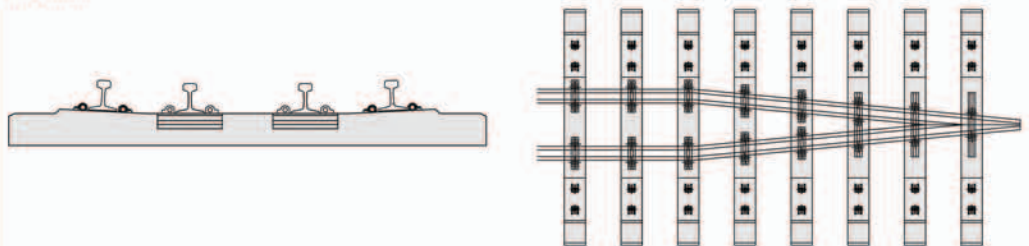
### Partial Replacement Sleepers (PRS)

Rocla® partial replacement sleepers were specifically designed to be interspersed with timber sleepers in existing timber tracks, to replace timber sleepers that have reached the end of their useful life. They can replace timber sleepers in a set pattern of 1 in 2, 1 in 4, 1 in 8, etc., or in a random pattern as required to hold track gauge, or can be interspersed with steel sleepers.



### Guard Rail and Termination Set Sleepers

Heavy and medium duty sleepers are manufactured for guard rail and termination set applications. Running rails use eClip or Fastclip fasteners. Guard rails use eClip fasteners with Multilok™ sliding shoulder.



### Turnout Bearers

Turnout sleepers are used to combine two lines into one or to connect two lines. Rocla manufactures pre-stressed concrete bearer sets for standard or tangential turnouts for any gauge, radius and crossing angle.



### Specialty Sleepers

Rocla Concrete Sleepers provides railways with a range of specialty products such as splay sleeper sets, magnet sleepers, level crossing sleepers, ballast top bridge decks, headwall raiser beams, diamond crossings, track circuit sleepers, cane field sleepers, etc.