

S&C – Pack Timber/Bearer

Scope

Includes: S&C Timber and Concrete Bearers
Excludes: Plain Line, Adjustment Switches, longitudinal timbers & slab track

Preparation

Tools, equipment and plant items required but not limited to:

- Shovels
- Jacks
- Cross level gauge
- Sighting Boards
- Void Meters
- Approved rail thermometer
- Kango Hammers
- Chippings and canisters

Work planning considerations:

- Check site to determine type of materials required
- Weather precautions
- Changes to CRTs

Method

1. Determine the design cant and mark out cant through the layout.
2. Determine the datum rail. This will usually be the main line high rail on curved track or the rail requiring the greatest lift.
3. Use void meters to measure voids. Use the information to calculate amount of chippings required if measured shovel packing.
4. Dig out cribs in areas to be packed. This should be 380mm (15") either side of each running rail on the timbers to be packed.
5. Once the cribs have been dug out, working toward traffic, use the sighting boards to lift the datum rail every 4th timber using a jack. On the adjacent rail use a jack and the cross level to ensure that the design cant is installed.
6. In through timber sections of S&C layouts, ensure the lift is continued throughout the timber to ensure the design cant is maintained. Ensure that the geometry on the adjacent road is not adversely affected.
7. Pack the timber with ballast or chippings using shovel packing or MSP. Kango hammers can be used to agitate the ballast as required.
8. Ensure that all timbers have been lifted and packed correctly by measuring the cross level throughout and the vertical alignment with sighting boards.
9. After removing the jacks, re check gauge and lift again if required.
10. On completion of work, ballast must be re-profiled.
11. Remove any waste materials from site.

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References

Supports Ellipse Standard job

- 009135 S&C – Pack Timber/Bearer

If applicable refer to the following associated documents:

- NR/SP/TRK/001 Inspection & Maintenance of Permanent Way
- NR/SP/TRK/102 Track Construction Standards
- NR/SP/TRK/0011 Continuous Welded Rail (CWR) Track
- NR/L3/TRK/002/B03 Ballast - Regulate – Manual
- NR/L3/TRK/002/F19 Track – PL – Lift and Pack

- Risk Control Sheets:
- NR/L3/MTC/0002/TK000 Generic Track Risks
- NR/L3/MTC/0002/TK411 Lift and pack
- NR/L3/MTC/0002/TK503 Change timber bearers