

Technical Specification

T0404 Track: Concrete sleepers, pitblocks and bearers

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MAYOR OF LONDON

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1 Purpose

- 1.1 The purpose of this Specification is to specify the requirements for concrete sleepers, pitblocks and bearers.

NOTE: This document has been reclassified and reformatted as a Technical Specification. The requirements are unchanged.

2 Scope

- 2.1 This Specification applies to concrete sleepers and bearers for use in ballasted track in open and sub-surface sections, and in concreted track in tube sections. It applies also to concrete pitblocks for use in Tube section station areas.
- 2.2 This specification is renumbered from S-Tr-0017, which superseded TE-DS-0322-A2.

3 Requirements

3.1 General requirements

- 3.1.1 Except as specified in this specification, concrete sleepers and bearers shall comply with BS EN 13230, or as varied by Network Rail's specification NR/SP/TRK/030 (see Note, below). Reference in NR/SP/TRK/030 to Network Rail as purchaser shall be read as referring to LU.

NOTE: Network Rail has issued specification NR/SP/TRK/030 to complement the 2002 issue of BS EN 13230. This is for use by suppliers to Network Rail but is acceptable to LU.

Concrete sleepers and bearers complying with this specification (i.e. T0404) are deemed to conform with the performance criteria defined in 1-157 and quoted in Attachment 1.

Part 3 of BS EN 13230 deals with twin-block sleepers. These have no application where conductor rails are present.

3.2 Material requirements

3.2.1 Concrete

- 3.2.1.1 Concrete shall be resistant to the corrosive effects of ground water.

3.2.2 Aggregates

- 3.2.2.1 Aggregates shall have a nominal size of 20mm.

3.2.3 Rail clip anchorages (shoulders)

- 3.2.3.1 Anchorages shall comply with BS EN 13146 and BS EN 13481-2 when tested with the associated fastening components.

3.2.4 Coachscrew hole inserts

- 3.2.4.1 Material for coachscrew hole inserts for conductor rail insulators shall be as approved by LU.

3.3 Functional requirements

- 3.3.1 Concrete sleepers for use in ballasted track shall: