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RAILTRACK PLC

MODEL CLAUSES FOR SPECIFYING CIVIL ENGINEERING WORKS

SECTION 217 Construction Standards for Permanent Way

ISSUE NO. 1 REVISION B

**RT/CE/C/008/217N
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Submitted by: Keith Ross
Structures Standards Engineer
Civil Engineering Directorate
King's Cross

Approved by: Model Clauses (Civil Engineering)
Committee on 14 May 1997

Signature:.....
for Director, Civil Engineering

John Horsler
Civil Engineer, Structures Compliance
Chairman Model Clauses (Civil Engineering)
Committee

Amendments

Amendments and additions since the previous issue are marked by a vertical line in the right hand margin.

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SECTION 217

**CONSTRUCTION STANDARDS FOR
PERMANENT WAY**

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Specification

**NOTES TO
SPECIFIER**

None applicable to this Section

SPECIFICATION CLAUSES

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SECTION 217

CONSTRUCTION STANDARDS FOR PERMANENT WAY

Construction standards for Permanent Way generally

217.001 Permanent Way shall be constructed in accordance with Railtrack Line Standards RT/CE/S102, and RT/CE/S011 for CWR with the additions or qualifications within this Section of the Specification. **!CHECK!**
(217.001)

Ballast

217.002 Minimum ballast depths shall be in accordance with the recommendations in Railtrack Line Standard RT/CE/S102. Additional ballast to form crossfalls shall be provided as necessary.

Ballast shoulder cross sections shall be in accordance with Railtrack Line Standard RT/CE/S102. Where there is sufficient space, two ballast shoulders shall be provided between adjacent tracks with the intervening space at cress level.

All cribs shall be completely filled with ballast and consolidated. The tops of sleepers shall be clear of ballast.

(217.002)

Sleepers generally

217.003 On straight track sleepers shall be nominally square to the rails. On curved track sleepers shall be normal to the tangent of the curve. The two sleepers on each side of a fishplated or welded rail joint shall be the same material and type.

The tolerance on the nominal spacing shall be ± 20 mm for any individual sleeper (other than at new weld and IRJ positions), but the number of sleepers in any 18 metre length of track shall not be less than the number given by the nominal spacing.

At new weld and IRJ positions, sleepers shall be spaced at equal distances either side of the weld or IRJ, to a tolerance ± 15 mm.

Where steel sleepers are used, the ballast shoulder shall be 600 mm wide, with 375 mm outside the sleeper and 225 mm over the sleeper end upto 125 mm high above the sleeper and clear of the rail fastenings.

Steel sleepers shall be spaced at 28 per 18.3 metres (60'), with a minimum 4 timber sleepers between steel sleepers and any of the following or similar discontinuities:

- (i) concrete sleepers,
- (ii) longitudinal timbers,
- (iii) level crossings,
- (iv) S&C.

The spacing of sleepers at IRJ's and IB's shall suit the type of joints in use.

(217.003)