

NR/L3/CIV/140/150N Issue 1

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RAILTRACK PLC

MODEL CLAUSES FOR SPECIFYING CIVIL ENGINEERING WORKS

SECTION 150

Brickwork, Blockwork and Masonry

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Page 1 of 15

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Approved by:

Signature:
for Director, Civil Engineering

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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 150

BRICKWORK, BLOCKWORK AND MASONRY

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SECTION 150

BRICKWORK, BLOCKWORK AND MASONRY

NOTES TO SPECIFIER:

These notes do not form part of the Specification.

Mortar

150.1

The Specifier should refer to British Standards published document No. PD 6472 "Guide to specifying the quality of building mortars" for the selection of grade, mix proportion and application of mortars in accordance with Tables 1-3.

Table 1 – Mortar Mixes (proportions by volume)

Mortar grade	Type of Mortar		
	Cement:lime:sand	Masonry cement: sand	Cement:sand
(i)	1 : ¼ : 3	1 : 2½	1 : 3
(ii)	1 : ½ : 4½	1 : 3½	1 : 4
(iii)	1 : 1 : 6	1 : 5	1 : 6
(iv)	1 : 2 : 9	1 : 6½	1 : 7
(v)	1 : 3 : 12	1 : 7	1 : 8

Designated mortar grades shall be used in accordance with Table 2 for normal weather working.

Table 2 – Selection of Mortar Grades

Exposure position	Class of Brick		
	Clay brick	Concrete brick	Calcium silicate brick
Abutments, earth retaining structures and severe exposure, structural load bearing and work below d.p.c.	(i)	(ii)	(ii)
External walls to buildings, cavity walls	(iii)	(iii)	(iv)
Internal walls and blockwork partitions	(iv)	(iv)	(v)

Mortar for mechanical pointing is specified in Section 153: Brickwork and Masonry Repairs.

Table 3 – Mortar Grades for Masonry

Type of stone	Mortar Grade as Table 1
Dense granite or equivalent	(ii)
Hard sandstone and grit stones	(iii)
Portland stone, medium to soft limestone and sandstone	(iv)
Cast stone	(v)

**Repairs to
brickwork and
masonry**

150.2 *For repair only Contract specifications, the Specifier should use Section 153: Brickwork and Masonry Repairs.*

The Clauses within this Section which give a specification for repairs are only intended to cover small repairs that may be carried out in conjunction with construction of new brickwork.