

GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS

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SECTION 11

- (a) Page 100,
Clause 11.58

MISCELLANEOUS ROADWORKS

Replace the clause by the following:

(1) Bituminous materials for footways, cycletracks and paved areas shall be laid and compacted with steel-wheeled and pneumatic-tyred rollers. Compaction shall start before the temperature of the newly laid material falls below 100°C and shall continue until all roller marks have been removed. For locations where rollers cannot operate effectively, the bituminous material can be compacted by hand-operated mechanical compaction plant approved by the Engineer.

(2) Cores shall be taken in accordance with GS Clause 9.58 for the checking of air void content and compacted layer thickness of the bituminous material for works with area of not less than 200m². For works with area smaller than 200m² but greater than 50m², at least 2 cores shall be taken from each layer of bituminous material laid. For works with area less than 50m², no coring is required unless otherwise instructed by the Engineer.

(3) The cores taken in accordance with GS Clause 11.58(2) shall be tested to determine the air void content. The average air void content of the cores shall be not less than 3% nor greater than 9%. If the test result does not comply with the specified requirement, 2 additional cores shall be taken at locations agreed by the Engineer and the average air void content determined from these 2 cores shall replace the original value for compliance checking. Notwithstanding this, no cores shall have an air void content of less than 2.5% nor greater than 10%.

(4) Each core taken from the final surfacing layer shall also be measured to determine the compacted layer thickness that shall not deviate by more than 5mm from the specified thickness. If the measured thickness does not comply with the requirement, 2 additional cores shall be taken at locations agreed by the Engineer and the average thickness determined from these 2 cores shall replace the original measured value for compliance checking.

(5) If no bulk sample is taken for determination of the Rice's specific gravity, the corresponding value obtained from the mix design shall be used in determining the air void content of the core unless other value is

suggested by the Contractor and agreed by the Engineer.

(6) If either the air void content or the compacted thickness of the core is outside the specified limits, the sub-area from which the cores were taken shall be considered as not complying with the requirements specified in this clause.

Standards Unit
Civil Engineering Department
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