

specimens made for durability testing.

I. Testing frequencies and reference standards for Fresh Concrete.

**Table 3-8: Testing Frequencies & Reference Standards for Fresh Concrete**

No.	Test	Frequency	Standard
1	Temperature	Every load for structural & every alternative load for non-structural concrete	ASTM C1064 or BS 1704
2	Slump	Every load for structural & every alternative load for non-structural concrete	ASTM C143 or BS EN 12350-2
3	Unit Weight	During trial mixes and further up to the engineer	ASTM C138 or BS EN 12350-6
4	Air Content	During trial mixes for structural concrete and further up to the Engineer	ASTM C231 or ASTM C173
5	Identification of aggregates	Every load for all grades	None/ by washing
6	Bleed	During trial mixes for structural concrete and once every month	ASTM C232

J. Testing frequencies and reference standards for Hardened Concrete

**Table 3-9: Testing Frequencies & Reference Standards for Hardened Concrete**

No.	Test	Frequency	Standard
1	Density	All cylinders and cubes required for compressive strength	ASTM or BS1881 Pt. 114
2	Compressive strength	Min. one set per casting per day and every 50m <sup>3</sup> for structural concrete. Min. one set every 100m <sup>3</sup> cumulative for non-structural concrete	ASTM or BS 1881Pt. 116
3	Concrete coring from structure	As directed by the Engineer	ASTM or BS
4	Non-destructive (NDT)	Up to the engineer	As per contract requirements
5	Water permeability	One set for every 100m <sup>3</sup> cumulative for structural concrete	BS EN 12390-8 or DIN 1048
6	Water absorption	As directed by the Engineer	ASTM C497M test Method B
7	Rapid Chloride Test	Up to the engineer	ASTM C1202 or AASHTO T277

### 3.3.11 Early Loading

- A. During the first 28 days after compaction, the concrete shall at no time be subject to loading, including its own weight, which will induce a compressive stress in it