

Is 1893 Part 5 Pdf Download

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SEISMIC ANALYSIS OF RC BUILDINGS AS PER IS:1893-2002 CODED PROVISIONS
The step by step procedure for seismic analysis of RC building is as follows:
Step 2: Determination of natural period of vibration

The fundamental natural period in the first (single) modal time period of vibration of the structure. Because the design loading depends on the building period. The fundamental natural period of vibration is calculated based on stiff joints. For a moment resisting frame without stiff joints,

$$T = 0.075 h^{0.75}$$

Where, h = Height of the building in m.
For a moment resisting frame with stiff joints,

$$T = \frac{0.09 A}{\sqrt{h}}$$

Where, h = Height of the building in m. A = Least lateral dimension of the building
Step 2: Determination of peak value
Seismic acceleration due to gravity, a_g value is taken by following soft storey (Rack, Multi-bay and duct) with natural period.

For ducty or hard soil sites

$$\frac{S_a}{g} = \begin{cases} 1 + 1.5 T & 0.05 \leq T \leq 0.10 \\ \frac{1}{2T} & 0.10 \leq T \leq 0.40 \\ 1 & 0.40 \leq T \leq 0.80 \end{cases}$$

For medium soil sites

$$\frac{S_a}{g} = \begin{cases} 1 + 1.5 T & 0.05 \leq T \leq 0.10 \\ \frac{1}{2T} & 0.10 \leq T \leq 0.35 \\ 1 & 0.35 \leq T \leq 0.80 \end{cases}$$

For soft soil sites

$$\frac{S_a}{g} = \begin{cases} 1 + 1.5 T & 0.05 \leq T \leq 0.10 \\ \frac{1}{2T} & 0.10 \leq T \leq 0.67 \\ 1 & 0.67 \leq T \leq 0.80 \end{cases}$$

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