

Civil Engineering Basic Knowledge

Following are **basics of civil engineering** points to remember for **civil engineers** to make the **construction** work easier while **maintaining** a quality of **construction**;

- **Lapping in reinforcement** is not allowed for the bars having **diameters** more than **36 mm**.
- **Steel Char maximum spacing** is 1.00 m (or) 1 No per 1m².
- In **steel dowels**, a rod minimum of **12 mm diameter** should be used.
- **Steel Chairs minimum** of 12 mm **diameter** bars to be **used**.
- **Longitudinal reinforcement** should not less than **0.8%** and more than **6%** of gross C/S. @teamlceted
- The **minimum** bars used for a **square column** are 4 No's and 6 No's for the **circular column**.
- **Main bars** used in the **slabs** shall not be less than 8 mm (HYSD) or **10 mm** (Plain bars) and the **distributors** not less than 8 mm and not more than **1/8 of slab thickness**.
- The **minimum thickness** of the slab should be **125 mm**.
- The freefall of **concrete** is allowed a **maximum** of **50m** in height.
- **Lap splices** shall not be used for bars larger than **36 mm**.
- **Water absorption** of bricks **limited** not more than **15 %**.
- **PH value** of the water **used** should not be **less than 6**.
- The **minimum Compressive** strength of Bricks is **3.5 N / mm²**.
- The **binding** wire required in **steel reinforcement** is 8 kg per Metric tonne.
- For **soil filling** work as per IS code, **3 samples** should be taken for core cutting test for every 100m².

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