

Al-Mansour University College

قسم الهندسة المدنية

Civil Eng. Dept.

المرحلة الثانية

2nd. Stage

Building Construction

2022 - 2023

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Lecture 4

Cycle process of building construction

The main stages are:



- 1: Planning
- 2: Design
- 3: Tendering
- 4: Construction Process
- 5: Handover
- 6: Evaluation

Elements create building loading

- Various loads are taken into account while designing the foundation of a structure loads—coming on a structure are:

 Two broad categories:

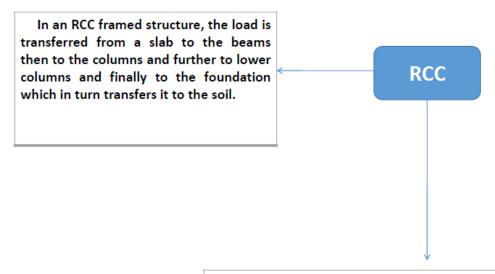


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_ Slabs

R C buildings



Cement concrete is strong in compressive strength but weak in tensile strength. To increase tensile strength we use mild steel bars in cement concrete. Steel bars used in cement concrete provide good strength to the structure.

RCC

Usually steel bars are rough ened or corrugated to further improve the bond or cohesion between the concrete and steel. Care must be taken that there should be no joints in steel bars used for RCC work. Therefore you might have observed that steel used for RCC work is long in length. If full length steel bars are not available, proper overlap should be given in steel bar and overlap should be staggered.

A care must be taken that steel should not disturb during concreting. Steel rods should be properly binded and proper planks or plates must be provided for walking. Curing of all concrete is done at least for 20 days.