

5. Inspection shall be made by the consultant prior to the injection, and it shall be mentioned in the drawings.
6. Resistance of the concrete cubes used in the pre-stressed slabs shall not be less than (35 N/mm<sup>2</sup>) at the age of 28 days, and in the transition period shall be at minimum (25N/mm<sup>2</sup>).
7. The concrete cov A very unfamiliar Arabic word is used here – obviously created as a “arabization” but I assume it means “failure” requirements or fire resistance requirements.
8. The vibration in the slabs must be studied when designing office buildings as per the approved codes. The Arabic word used has many meanings
9. If the prior/pre axial force for the pre-stressed elements exceeds elements exceed (3) Megapascal, the design engineer shall study the impact of failure in the concrete connection knots and its impact on the supports
10. Verification of deflection values:
  - For calculation of the long term deflection, compliance is required with escalation modulus for short term deflection as follows:

LOAD	Short term deflection escalation
Dead load	3.0
Pre-stressed (Losses considered)	3.0
Live	1.5

- Slab bending is acceptable provided that the designer submits clear justification according to the applicable code.
  - Long term deflection shall be within the allowable limits taking in to consideration section cracking.
- 11 minimum horizontal distance between channels shall not be less than (75mm) or the width of the channel.
  - 12 use of bent cables shall be avoided as much as possible, in necessary cases, pins shall be used in addition to upper and lower steel mesh or either one of them. The bend shall not exceed (1:12).