

Concrete Design

**Concrete shall be designed and constructed in accordance with the provision set forth in ACI 318.

Concrete Strength

**The minimum compressive strength of concrete at 28 days shall be 3,000 psi with 5 1/2 bag mix.

Continuous Concreting

**Once started, concreting shall be carried on as a continuous operation until the placement is complete.

Conveying

**Concrete shall be conveyed from the mixer to the place of final deposit by methods that will prevent separation or loss of materials.

Curing

**Concrete (other than high early strength) shall be maintained above 50° and in moist condition for at least the first 7 days after placement.

Depositing

**Concrete shall be deposited as nearly as practicable in its final position to avoid segregation caused by re-handling or flowing.

High Early Strength Concrete

**Shall be maintained above 50° and in moist condition for at least the first 3 days after placement.

Re-tempering

**Re-tempered concrete or concrete that has been remixed after initial set shall not be used unless approved in writing by a registered design professional

Unacceptable Concrete

**Concrete that has partially hardened or has been contaminated by foreign materials shall not be utilized.

Cold Weather Guidelines

**Concrete (other than high early-strength) shall be maintained above 50° and in moist condition for the first 7 days after placement.

**High early-strength concrete shall be maintained above 50° and in moist condition for the first 3 days after placement.

**Forms and blankets shall remain in place until 50° maintenance requirement is achieved.

**Accelerated curing may be used provided the curing process produces concrete with durability equivalent to the curing methods stated above.

**Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near freezing temperatures. Tenting and heating shall be in place prior to concrete placement.

**All concrete material and all reinforcing, forms, filler and ground with which concrete is to come in contact with shall be free from frost, ice or snow.