

CODE

(d) Corrosion protection for exposed embedments intended to be connected with future Work.

26.8.2 Compliance requirements:

- (a) Type, size, details, and location of embedments not shown in the construction documents shall be submitted for review by the licensed design professional.
- (b) Aluminum embedments shall be coated or covered to prevent aluminum-concrete reaction and electrolytic action between aluminum and steel.
- (c) Pipes and fittings not shown in the construction documents shall be designed to resist effects of the material, pressure, and temperature to which they will be subjected.
- (d) No liquid, gas, or vapor, except water not exceeding 32°C or 0.35 MPa pressure, shall be placed in the pipes until the concrete has attained its specified strength.
- (e) In solid slabs, piping, except for radiant heating or snow melting, shall be placed between top and bottom reinforcement.
- (f) Conduit and piping shall be fabricated and installed so that cutting, bending, or displacement of reinforcement from its specified location is not required.

26.9—Additional requirements for precast concrete

26.9.1 Design information:

- (a) Dimensional tolerances for precast members and interfacing members.

- (b) Details of lifting devices, embedments, and related reinforcement required to resist temporary loads from handling, storage, transportation, and erection, if designed by the licensed design professional.

26.9.2 Compliance requirements:

- (a) Members shall be marked to indicate location and orientation in the structure and date of manufacture.
- (b) Identification marks on members shall correspond to erection drawings.

COMMENTARY

R26.9—Additional requirements for precast concrete

R26.9.1(a) Design of precast members and connections is particularly sensitive to tolerances on the dimensions of individual members and on their location in the structure. To prevent misunderstanding, the tolerances used in design should be specified in the construction documents. Instead of specifying individual tolerances, the standard industry tolerances assumed in design may be specified. It is important to specify any deviations from standard industry tolerances.

The tolerances required by 26.6.2 are considered to be a minimum acceptable standard for reinforcement in precast concrete. Industry-standard product and erection tolerances are provided in **ACI ITG-7M**. Interfacing tolerances for precast concrete with cast-in-place concrete are provided in **ACI 117M**.

R26.9.1(b) If the devices, embedments, or related reinforcement are not designed by the licensed design professional, these details should be provided in shop drawings in accordance with 26.9.2(c).