

4000701 Concrete Structures  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Williams, Jennifer

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Comments: (3-20-12) Why was the temperature changed from 60 degrees to 50 degrees? Should Section 400 and 450 match regarding the enclosure temperature? Section 450 states 60 degrees?

Response: Section 346 and 400 do not require monitoring of the concrete temperature. Section 450 requires 55 degrees concrete temperature for smaller structures and 50 for structures greater than 12". This requirement for cast in place is less restrictive than prestressed operations where curing and tensioning issues must be addressed and is indicative of ACI requirements (see comment below). No change made to Section 400 or 346. Comment will be shared with Structural Materials Prestressed/Precast Section and Structures Design.

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Comments: (3-26-12) **400-7.1.1** Should there be a minimum concrete temperature too? ACI 306 and PCA 14th edition page 243, indicate greater than or equal to some temperature between 40 and 55 F deg depending on element thickness and presuming our current ambient condition of minimum air temp of 45 F deg. (see reference line 4).

Response: No change made. Section 346 was revised in July 2010 to address air temperature only. This change is made to align Section 346 requirements and Section 400 requirements. Concrete temperatures are not as much of a concern and these requirements will ensure that the concrete does not freeze while it is a plastic state without requiring the concrete temperature to be monitored.

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