

PMSTPCOL PEmails

From: Chakrabarti, Samir
Sent: Monday, February 07, 2011 2:55 PM
To: peter@astralengineering.com; peter Arnold (E-mail)
Cc: M.K.Ravindra; STPCOL
Subject: Shear Design Issue

Peter,

As I mentioned to you, STP (S&L) presented during the meeting on February 2 and 3, 2011, that averaging of out-of-plane shear across the entire width of the slab is acceptable per ACI 349. We need to provide our firm position on this issue ASAP. The out-of-plane shear, I believe, is the only issue. Because, as I understand, it is acceptable for in-plane shear to design the entire wall section for the total in-plane shear. And, for moment and axial force they have checked each element for the P-M combination for each loading case. I need your expert advice on this issue. Please review Section 13.6.8 of ACI 349 where there is some information for direct design method. There is a book on design of reinforced concrete slabs by Robert Park and William Gamble, that has some information on code provisions and design of slabs. Unfortunately, I do not have that book.

In any case, please let me know how to handle this issue. Please call me with any questions. I will be in the office after 10:00 AM ET tomorrow. Thanks.

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From: Chakrabarti, Samir

Created By: Samir.Chakrabarti@nrc.gov

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