

STEEL DECK INSTITUTE

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January 29, 2018

Mr. Walter Schultz
New Products & Market Development
Nucor Corporation
P.O. Box 729
Norfolk, NE 68701

Re: Request for Interpretation of ANSI/SDI T-CD-2017

Dear Mr. Schultz,

Your request for interpretation of the ANSI/SDI T-CD-2017 Standard was processed in accordance with the provisions of Section 7 of the *SDI Procedures for ANSI-Approved Standards for Steel Deck*. The following interpretation is provided:

QUESTION: In Table 10.4.2, an adjustment is required when tests that have a shear bond failure (horizontal shear / end slip) based on concrete strength. This does not seem correct, especially since that concrete strength does not even appear in the shear-bond provisions of the Standard. Is it intended that the tested strength be modified by this factor?

RESPONSE: Yes.

EXPLANATION: Strictly reading what is written in the Standard, this adjustment factor should be applied. However, upon further review, it appears that this adjustment factor is not correct and should not be applied.

The reference (Salem and Schuster, 1985) which the Standard is based on states that $f'c$ has no significant effect on the ultimate shear bond capacity. Appendix B of the ANSI/SDI C-2017 Standard likewise does not consider the concrete strength in the calculation of the bond.

In subsequent editions of the Standard, this adjustment factor will be considered for removal. In the interim, using this interpretation, a user may avail themselves of the Alternate Methods provisions in IBC Section 104.

If you disagree with this decision, you have the right to appeal it in accordance with the *SDI Procedures for ANSI-Approved Standards for Steel Deck*.

Sincerely,

Robert C. Paul, P.E.
Managing Director

cc: Dr. Tom Sputo, SDI Technical Director