

Committee 318-1R

Meeting #17 agenda

Wednesday July 13, 2022 1300-1500 Pacific

Teams

- | | |
|---------------------------------|---------------------------|
| 1. Review of progress | Silva |
| 2. Update from reliability side | Harris, Paulson, Bartlett |
| 3. Detailing | |
| 4. Berkeley testing | Ben |
| 5. Calendar/next meeting | |
| 6. Adjourn | |

Notes

Attending:

J. Silva, A. Taylor, L. Wyllie, J. Moehle, B. Worsfold, C. French, G. Parra, M. Bartlett, D. Mullins, J. Harris, C. Paulson

Agreement on agenda.

Comments on current direction:

Dan: ok with current 1a ballot item

Jack: needs a worked example for the reason statement

Cathy: h_{ef} requires better definition

Dan: Location of provisions – better to put technical part towards to the back of the section?

Jack: Or maybe in Chapter 16?

Dan: Seems out of place in 25.4.1.5. Considerations: needs to address all three types of development (John), also note that relevant connection types appear in Chapter 25 (e.g., Fig. R25.4.4.4). Avoid overcomplicating with cross references (Loring).

Brief discussion of background papers by Darwin, et al. and Baek and Kang regarding investigations into joints and joints with closing moment.

Presentation by Mike on current status of investigations into beta factors for straight, hooked and headed bar development.

Gustavo: specimens used at KU induce excessive shear in joint skewing results.

Presentation by Ben of latest UC Berkeley tests showing effectiveness of shear reinforcing in enhancing breakout. Also included test results of previous researchers indicating robustness of his model.

Cathy: need a way to square this with anchor reinforcement provisions, otherwise could end up with more capacity this way.

Ben: agree, need upper limit on reinforcement contribution.

John: Perhaps ATENA can provide this. Other failure modes that might come into play (for straight tension case) would be splitting and crushing.

Discussion of chord bar example from ACI design guide as source of example problem. Show that a development length solution with hooked or headed bars is inadequate.

Jack: Suggestion to increase bar percentage to 2.5%, making example more realistic (14 #8 bars vs. 8).

Next meeting first Wed. in August. Mike cannot attend.

Ballot to be extended at request of attendees.

Meeting adjourned at 3p Pacific.