



International Code Council

ICC IS-3DACT Committee Minutes Meeting #9

June 7, 2024 – 10:00 AM PDT

1. Welcome and opening remarks

Staff Secretariat, Melissa Sanchez called the meeting to order at 10:04 am PDT and welcomed all committee members, invited parties, and ICC staff. Ms. Sanchez announced that Mr. David Langefeld and Mr. Eric Kreiger have been appointed to the board and are voting members.

Ms. Sanchez then went on to note the committee must adhere to the ICC Code of Ethics, which states that those participating in ICC activity must adhere to the highest ethical conduct, with the purpose of the protection of the health, safety and welfare of the public by creating safe buildings and communities. In addition, Section 5.1.10 in Council Policy #7 is in effect and any committee member with a conflict of interest must withdraw from participating in discussion or vote on the matter in which they have an undisclosed interest. Lastly, Council Policy #50 outlines ICC Antitrust guidelines, which indicates the committee meetings are not intended for discussion of pricing and marketing topics.

2. Quorum and Attendance

Ms. Sanchez called the roll of the IS-3DACT with the following members registering attendance. Ms. Sanchez noted there was enough for a quorum.

4. Approval of Previous Meeting Minutes

Mr. Gencturk asked for a motion of approval for the previous meeting minutes. Mr. Rory Hamaoka motioned and Mr. Jared Brewe seconded. The previous meeting minutes were unanimously approved.

5. Update on Work Groups

Mr. Gencturk summarized the last meeting whereby Chapter 3 was finalized, and a vote was called. Chapter 3 was approved by the majority, with one negative vote from Mr. Gabriel Carrera. Mr. Carrera has since sent his suggestions and comments on Chapter 3. Mr. Gencturk suggested to hold off voting on these comments until Chapter 3 goes to the public for comments. Once all comments are gathered then the committee will vote only once more on the changes.

a. Materials Work Group (Bing Tian)

Mr. Bing Tian commented that the Materials Working Group received comments and input from ICON for Chapter 5. Mr. Gencturk recommended that the committee go over Chapter 5 before going over Chapter 4

Devine asked in the chat if Section 501 was meant to be prior to the design process or prior to the construction process. Mr. Brewster commented this was a like ready-mix scenario where field test records demonstrate what can be established with the raw materials. Mr. Langefeld and Mr. Tian agreed. –With regards to the phrase sourced for the field prequalification shall be consistent with those used in the
Mr. Devine commented in the chat that ACI 301 was a bit more lenient and

floor plans should be taken. Mr. Daniel Galvez Moreno commented that the 45-minute interval time was not wasted time since other testing could be done during the time between layers. He also commented that the test took less than 13 hours for ICON because the first few and the last few layers were printed quicker than the middle layers. Mr. Peerzada commented that the 45-minute layer time did not make sense for continuous mixing systems and that the time should be less than the maximum layer time specified by the manufacturer. Mr. Devine asked in the chat why the language of AC509 was not being used as it specifies that the maximum

Mr. Brewe said that it might be possible to correlate the two in a similar manner to the split tensile strength test with concrete as described in ACI 318. Mr. Peerzada asked how applicable ~~was~~ ASTM E518 is. He said there was no direction specified in Section 501.6.2.2. Mr. Tian agreed. Mr. Peerzada said that he did not think it was a good test for 3D printed systems and mentioned that it iswas not in Chapter 3 either. Mr. Tian agreed and suggested to remove the section. Mr. Brewe commented that if the flexural requirement is removed there iswould be no need for a mock-up wall and only a few layers would need to be printed for the tensile test. Mr. Ekenel commented that this test was included in AC509 as a comparison test between the lab and the jobsite during the qualification testing. Mr. Brewe said the difference-withintent of this section was to getdetermine a value for structural design to avoid the testing

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To finalize Chapters 4 and 5.

9. Action Items & Summary

The action items from the meeting were summarized as follows:

<i>Materials working group to meeting in next two week and circulate the documents to the entire committee at least 1 week before next committee meeting.</i>	<i>Mr. Tian</i>
<i>Structures working group to meeting in next two week and circulate the documents to the entire committee at least 1 week before next committee meeting.</i>	<i>Mr. Brewe</i>

With no other questions or comments before the committee Mr. Gencturk moved to adjourn the meeting. Mr. Brewe motioned for adjourning and Mr. Tian seconded the motion. The meeting adjourned at 12:03 pm PDT.