



International Code Council

3. Approval of Agenda

Chair Mr. Bora Gencturk asked if there was any opposition to the agenda. There were no objections. The agenda was unanimously approved.

4. Approval of Previous Meeting Minutes

Mr. Gencturk asked if there was any opposition to the previous meeting minutes. There were no objections. The previous meeting minutes were unanimously approved.

5. Update on Work Groups

Mr. Gencturk started the discussion by suggesting that the committee ballot chapter by chapter. The first chapter would be Chapter 3 on materials. Chapters 1 and 2 can be balloted later, as they are editorial and easily fixed.

requested all changes be tracked to aid transfer of revisions to the master draft. Mr. Gencturk requested Ms. Sanchez keep the master draft

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with the other chapter headings. Rather, he suggested,

he intended the section to be similar to TMS provisions. He said he would like to review it more. Mr. Mayer asked a question about the horizontal reinforcement. Mr. Devine responded that they intend that horizontal reinforcement be placed in the beads for non-composite walls and in the middle for composite walls. He also mentioned that the reinforcement size was meant to be smaller. Mr. Mayer asked about splicing reinforcement for continuity, but as time was short Mr. Gencturk suggested to move forward with Chapter 5.

c. Materials Work Group (Bing Tian)

Mr. Tian then started the discussion on Chapter 5. He asked whether shrinkage and freeze-thaw should be a field prequalification test. Mr. Brewe said no, and Mr. Galvez Moreno said it was already part of Chapter 3. Mr. Tian then agreed to remove this requirement.

Mr. Tian said that slump testing and air content should be tested at the start of the day and at the middle of the day. Mr. Werner Hellmer asked if this was required. Mr. Tian said it was required.

Mr. Christopher Kauffman wrote in the chat why the term “halfway” was being used. He suggested a more quantitative term more in line with ACI.

Mr. Tian then mentioned that in the field a flow table is not feasible. He suggested in the field people use a penetrometer for mortar and for concrete the slump test.

Mr. Rex Donahey said that ACI does not use the term 3D printing but instead “additive manufacturing” and they have developed a portable test for this.

Mr. Devine asked about ASTM C109 mortar cubes. Mr. Tian said C109 would be for mortar and C39 would be for concrete. Mr. Devine suggested that it would make more sense if the test was based on aggregate size. He also asked about the inclusion of 1-day and 7-day strength checks. Mr. Tian said it was because they have this requirement in Chapter 3, but acknowledged that for field testing this was a lot and suggested making the 7-day optional and only the 28-day mandatory. Mr. Donahey asked about non-destructive testing. Mr. Gencturk said those tests require a lot of calibration and thus make them less feasible to use.

Mr. Tian then initiated a discussion regarding whether a mock up wall in field should be. Mr. Galvez Moreno thought a mock up wall was unnecessary. Mr. Tian disagreed and brought up the question about who is responsible for printing in field. Mr. Hellmer supported the including requirements for a mock up wall in field. Mr. Peerzada suggested a mock up wall was not necessary if both the material and printing company are the same. Mr. Sean Monkman asked the question, if one builds a 100 homes, do they need to build 100 mock up walls? Mr. Devine suggested a mock up wall be included as part of the lab prequalification tests. Mr. Stephen Mansour suggested drilling out a specimen from the printed wall to check its properties instead. Mr. Langefeld wrote that if a contractor did an alternative design then they have already tested at least 15 full-scale members and should be exempt from a mock up wall. Mr. Peerzada said that a clause could be added to make the printing company liable if a structural failure occurs. Mr. Gencturk suggested moving the mock up wall to the laboratory. Mr. Tian disagreed as many labs do not have a printer.

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