



# International Code Council

## ICC IS-3DACT Committee Meeting Minutes – Meeting #18

August 15, 2025 – 10:00 AM PDT

### 1. Welcome and opening remarks

*Co-Secretariat, Aileen Vandenberg called the meeting to order at 10:00 am PDT and welcomed all committee members, invited parties, and ICC staff. Ms. Vandenberg noted 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. Vandenberg roll called the IS-3DACT committee with the following members registering attendance. Ms. Vandenberg noted there was enough for a quorum.*

2025 IS-3DACT COMMITTEE MEETING						
NAME	#14 2/14/25	#15 3/7/25	#16 3/21/25	#17 4/11/25	#18 8/15/25	#19 8/29/25
Gabriel Carrera [D]	x	x	x	x	X	
Bora Gencturk [C]	x	x	x	x	X	
Rory Hamaoka [H]	x	x	-	-	-	
Werner Hellmer[H]	x	x	x	x	X	
Maryam Hojati [D]	x	x	x	-	X	
Berok Khoshnevis [D]	x	x	-	-	-	
Doug Mayer [H]	x	x	-	x	X	
Paul Messplay [H]	x	-	x	x	-	
Adil Tamimi [D]	x	-	-	x	X	
Bing Tian [A]	x	x	-	x	X	
David Langefeld [B]	x	x	x	x	X	
Eric Kreiger	x	x	x	x	X	
<b>TOTAL</b>	12/12	10/12	7/12	9/12	9/12	

*Interested parties in attendance included Raymond Dumas (OPCMIA 528), Peeter Cooperman, Pasquale Caccavo (Karlos-3D), Abdul Peerzada (Quikrete), Mohsen Khanverdi (University of Windsor), Dham Mahir (Mapei), Sebin Joseph (Von Perry LLC), Daniel Galvez (ICON), Stephan Mansour (ACI), Kane DuPont (Print3D Technologies), Mahmut Ekenel (ACI), Aziz Shehab (Ab'aad 3D Innovation), Muhammad Shakeel Akhtar (Parsons), Hussain Ashoor (Ab'aad 3D Innovation), Trevor Ragno (Apis Cor)*

### 3. Approval of Agenda Motion

*Chair Mr. Gencturk asked for a motion of approval for the agenda. Mr. Werner Hellmer motioned, and Mr. Bing Tian seconded. The agenda was unanimously approved.*

## 4. Approval of Previous Meeting Minutes

*Mr. Gencturk asked for a motion of approval for the previous meeting minutes. Ms. Maryam Hojati motioned, and Mr. Hellmer seconded. The previous meeting minutes were unanimously approved.*

## 5. Public Comments Round 2 Discussion

*Mr. Gencturk started the discussion on the public comments for Round 2. The received comments were divided into two categories – In-Bound and Out-of-Bound. In-Bound comments were comments addressing the changes from the first round of comments and the Out-of-Bound comments were comments addressing other aspects of the draft.*

*Mr. Gencturk asked the committee whether they will consider the Out-of-Bound comments. Mr. Hellmer motioned that the committee vote to not consider the Out-of-Bound comments. Ms. Hojati seconded the motion. The committee voted to not consider the Out-of-Bound comments with eight positive votes and two abstains from Mr. Tian and Mr. Eric Kreiger, respectively.*

*Mr. Gencturk then started on the In-Bound Comments. The comments that were addressed during the discussion are as follows:*

#	Comment Proponent	Section	Comment	Reason	Committee Response	Committee Vote
1.	Abdul Peerzada	202	<b>1-COMPONENT (1K) 3D PRINTING MATERIAL.</b> The definition has been significantly Modified and does not include bagged products.	Changes to previous definition.	Approved with no modifications	Mr. Tian motioned Mr. Hellmer seconded Approved Unanimously
2.	Abdul Peerzada	202	<b>3D PRINTING MATERIALS.</b> A proprietary or non-proprietary cementitious material (3D printing concrete or 3D printing mortar) that consists of cement, fibers (if applicable), supplementary cementitious materials (if applicable), fine aggregates or fine and fine and/or coarse aggregates, and admixtures (if applicable). <b>3D-printing material is homogenously mixed and extruded in layers during construction.</b>	Redundant.	Approved with no modifications	Mr. Hellmer motioned Mr. Doug Mayer seconded Approved Unanimously
3.	Hussain Ashoor	202	<b>3D PRINTING CONCRETE:</b> A proprietary or non-proprietary cementitious 3D printing material with coarse aggregates <u>of size not less than 4.75 mm in accordance ASTM C33.</u>	To clearly specify the difference between the concrete and mortar.	Approved with minor modifications	Mr. Adil Tamimi motioned Ms. Hojati seconded Approved Unanimously
4.	Abdul Peerzada	202	<b>FIELD MIXED 3D PRINTING MATERIAL.</b> Printing material mixture, either mortar or concrete, where constituent materials are stored and batched separately and mixed at the jobsite <b>or ready-mix plant.</b>	Formatting/Language.	Approved with minor modifications	Mr. Tian motioned Mr. Kreiger seconded Approved Unanimously
5.	Abdul Peerzada	202	<b>MATERIAL BATCHING AND DELIVERY SYSTEM.</b> Mixing and delivery system-machinery or assembly that performs	Technical.	Approve with minor modifications	Ms. Hojati motioned

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			some or all of the following functions: material batching, material mixing, and material pumping <del>(or an alternative delivery method).</del>			Mr. Tian seconded  Approved Unanimously
6.	Sean Platt	303.2	The compressive strength for 3D printing mortar shall be conducted on 2 in. (50 mm) cube specimens in accordance with ASTM C109/C109M <del>or on cylinder specimens in accordance with ASTM C39/C39M.</del>	Cylinders for mortar should not be allowed unless limited to 2" x 4".	Disapprove	Mr. Hellmer motioned  Mr. Kreiger seconded  8 positive votes Mr. Tian voted negative
7.	Abdul Peerzada	303.2	The compressive strength for 3D printing mortar shall be conducted on 2 in. (50 mm) cube specimens in accordance with ASTM C109/C109M <del>or on cylinder specimens in accordance with ASTM C39/C39M.</del>	There is no research at the moment that supports use of cylinders for compression testing of mortar. This section should be removed and if committee still wants to have this test method, please provide scientific evidence which can effectively oppose all the published articles which suggest that mortar cannot be testing using a cylinder geometry as given in ASTM C39 (4x8 in minimum).	Disapprove	Mr. Hellmer motioned  Mr. Kreiger seconded  8 positive votes Mr. Tian voted negative

## 6. New Business

*There was no new business.*

## 7. Next Meeting

*The next meeting will be August 29, 2025 at 10:00 am Pacific Daylight Time.*

## 8. Action Items & Summary

*With no action items, other questions, or comments before the committee, Mr. Gencturk moved to adjourn the meeting. Mr. Mayer motioned for adjourning and Mr. David Langefeld seconded. The meeting adjourned at 11:00am Pacific Daylight Time.*

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