APPENDIX A. FULL FLOOD SIMULATION RESULTS

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A.1 Observations From Flood Simulation 1

Date	Time	Flooding Simulated Depth (in)	Test Pod A Interior Water Depth (in)	Test Pod B Interior Water Depth (in)	Test Pod C Interior Water Depth (in)	Test Pod D Interior Water Depth (in)	Test Pod E Interior Water Depth (in)	Test Pod F Interior Water Depth (in)
6-Apr	7:00 AM	0	0	0	0	0	0	0
	7:30 AM	**5.5**	0	0	0	0 *seepage at base of wall*	1.25	0 *leakage at channel connection N. wall*
	8:00 AM	*10.5*	0	0	*seepage at base of east wall*	0	**4**	0.75 visible currents
	8:45 AM	*17*	0	0	0.3	0	*14*	2 *three points of leakage*
	9:00 AM	*20.5*	0 *most CMU cells dry, minor seepage*	0 *most CMU cells filling w/ water (audible)*	1.5	0.5	*21*	2.5
	10:00 AM	*30*	0	0.75	2.75	1	*24*	**4**
	11:00 AM	*36*	0	**4**	**9.5**	1.75	*36*	*7*
	12:00 PM	*36*	0	*8.25*	*17*	2.25	*36*	*21.5*
	1:00 PM	*33*	0	*11.5*	*21.5*	2.75	*33*	*33.5*
	3:00 PM	*36*	0	*18.5*	*26.5*	3.75	*36*	*36*
	4:00 PM	*36*	0	*22*	*28.5*	**4.25**	*36*	*36*
	5:00 PM	*36*	0	*24*	*29.75*	*4.75*	*36*	*36*
	6:00 PM	*36*	*slab is half covered with water*	*27*	*31*	*5.25*	*36*	*Floated away from base*
	7:00 PM	*36*	0	*29.25*	*31.5*	*5.75*	*36*	*0*
	8:00 PM	*36*	0	*31*	*32*	*6*	*36*	*0*
	9:00 PM	*36*	0	*32.5*	*32.5*	*6.25*	*36*	*0*
	10:00 PM	*36*	0	*33.75*	*33*	*6.5*	*36*	*0*
	11:00 PM	*36*	0	*34.5*	*33.5*	*7*	*36*	*0*
7-Apr	1:00 AM	*36*	0	*35.5*	*34.5*	*7.75*	*36*	*0*
	3:00 AM	*36*	0	*36.5*	*35.5*	*8.25*	*36*	*0*
	5:05 AM	*38*	0	*36.5*	*35.5*	*8.25*	*36*	*0*
	7:05 AM	*38*	0	*36.5*	*35.5*	*8.25*	*36*	*0*
	9:05 AM	*Missing data*						
	11:00 AM	*29.5*	0.25	*34.5*	*35*	*10*	*29.5*	*0*
	12:00 PM	*24.5*	0.25	*32.5*	*33*	*10*	*25*	*0*
	1:00 PM	*19.5*	0.25	*30.25*	*30.75*	*10.5*	*20*	*0*
	2:00 PM	*16*	0.25	*29*	*28.75*	*10.5*	*16.5*	*0*
	3:00 PM	*13*	0.25	*28.5*	*27*	*10.5*	*13.5*	*0*
	4:00 PM	*9*	0.25	*27.25*	*25.5*	*10.5*	*10*	*0*
	5:00 PM	*5*	0.25	*26.5*	*24.75*	*10.5*	*6.5*	*0*
	7:05 PM	*2*	0.25	*24.5*	*21.5*	*10*	*2.75*	*0*
8-Apr	8:00 AM	*0*	0.25	*18.75*	*14.5*	*8*	*0*	*0*
	12:00 PM	*0*	0.25	*17.75*	*13.25*	*7.25*	*0*	*0*

Table 6. Observations from flood simulation 1.

A.2 Data Set From Drying Period

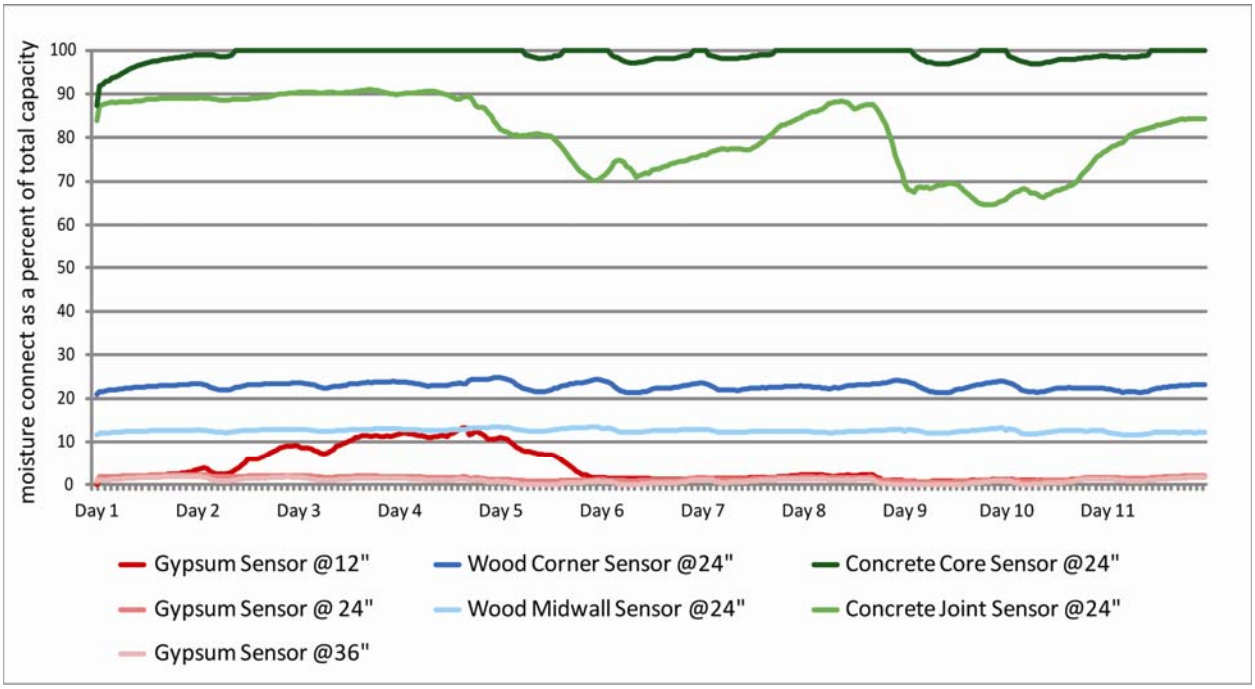

Fig. A.1. GRAPH: Drying period for test pod A: sealed block after flood simulation 1.

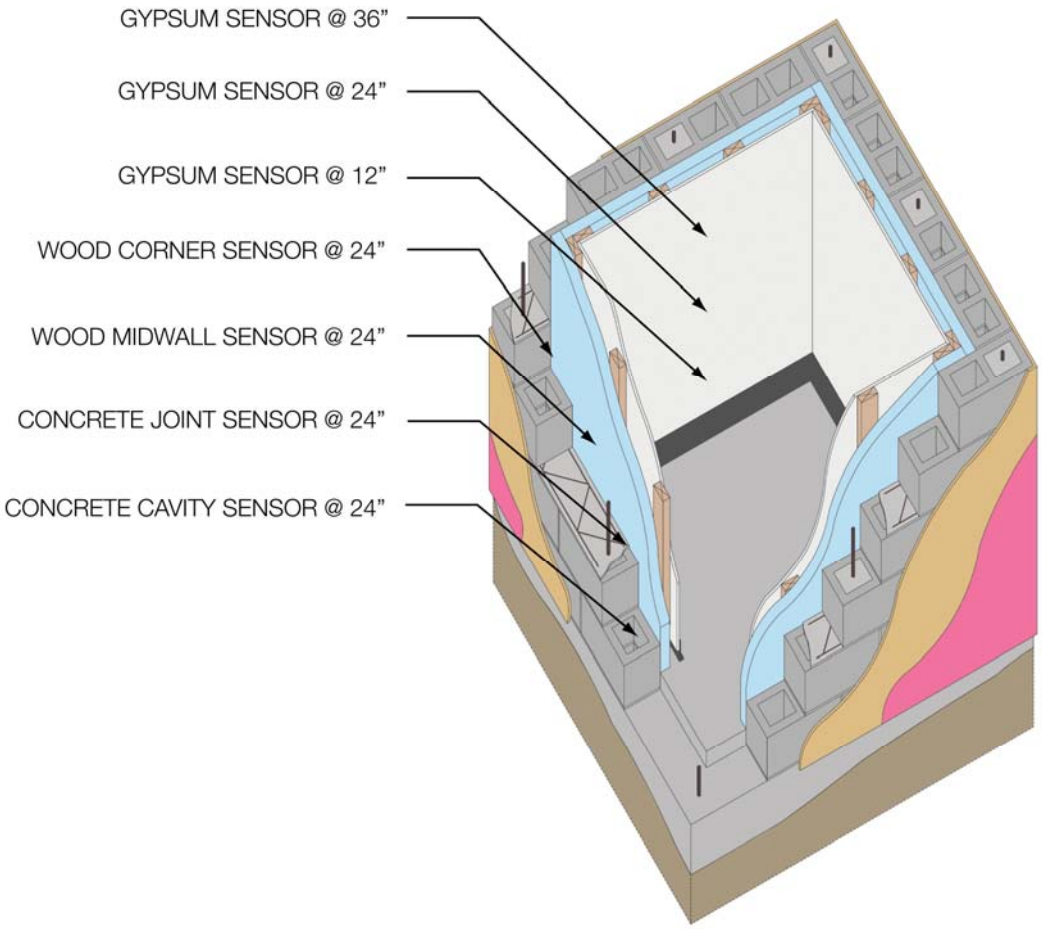

Fig. A.2. DIAGRAM: Sensor locations for test pod A: sealed block after flood simulation 1.

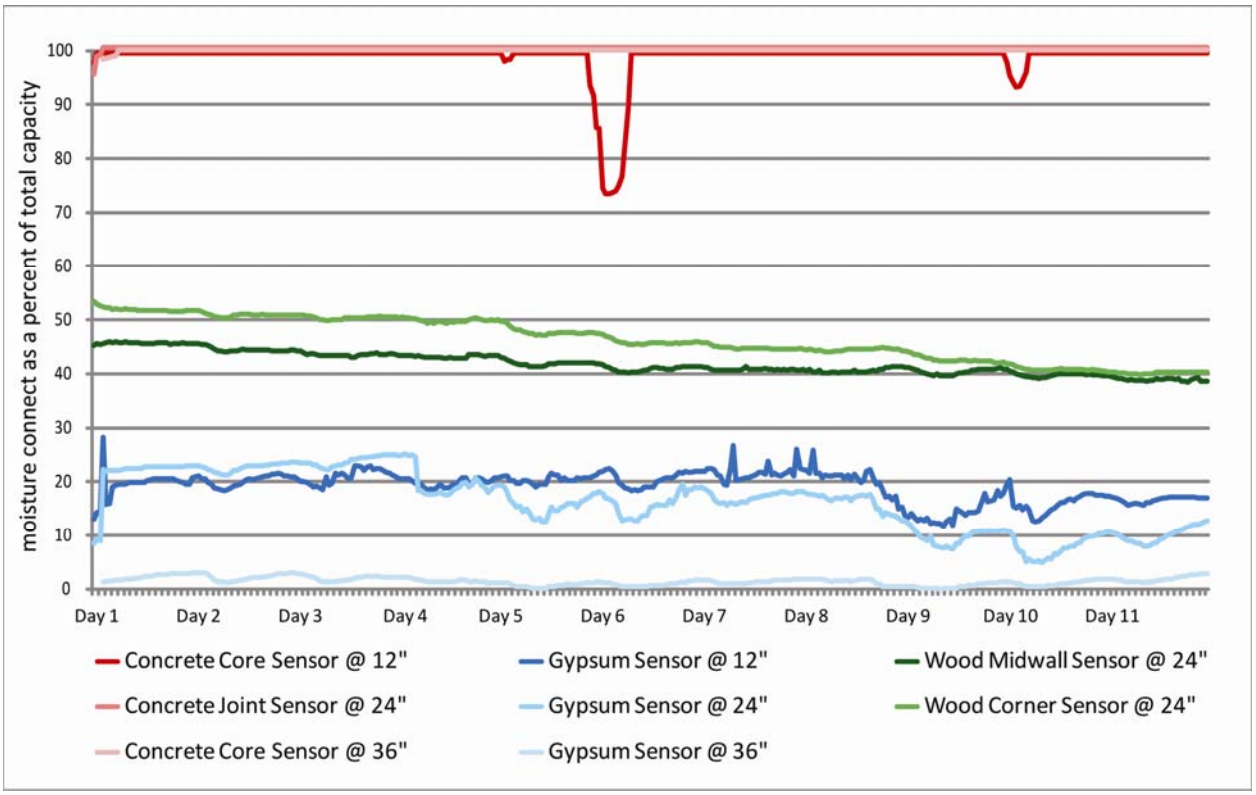

Fig. A.3. GRAPH: Drying period for test pod B: cavity wall after flood simulation 1.

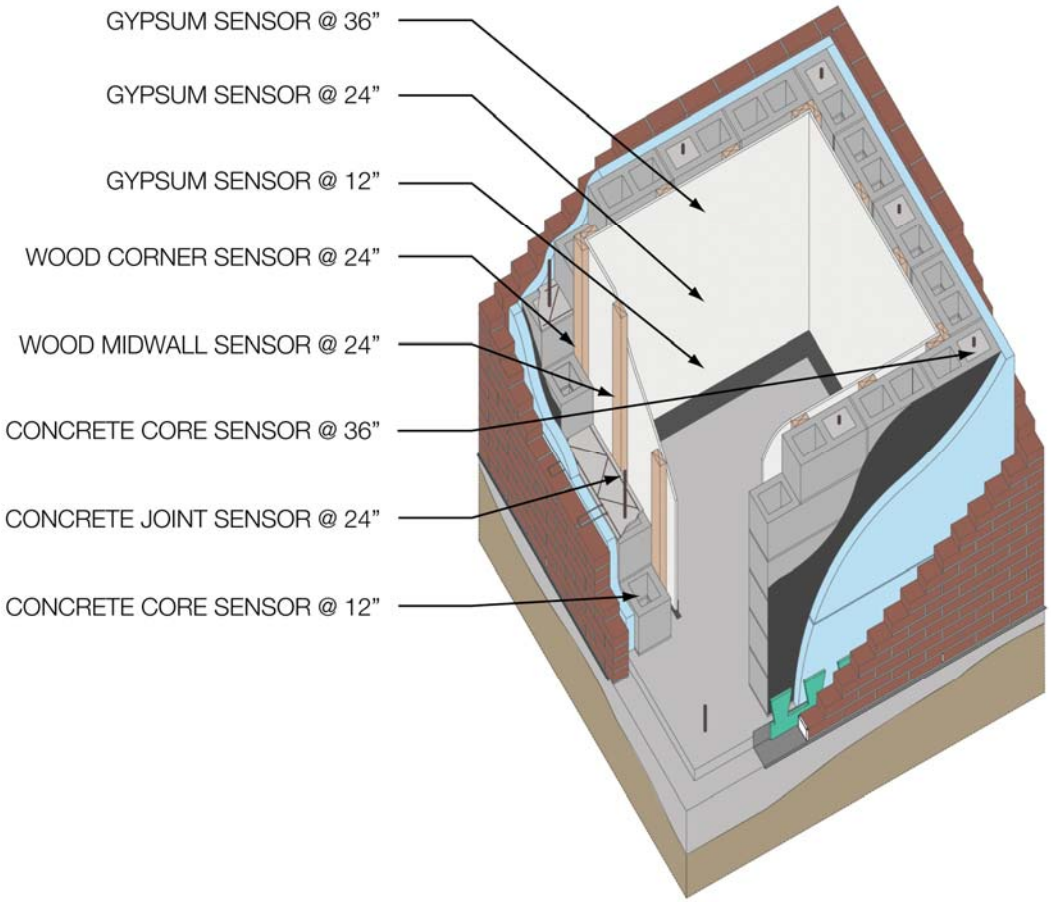

Fig. A.4. DIAGRAM: Sensor locations for test pod B: cavity wall after flood simulation 1.

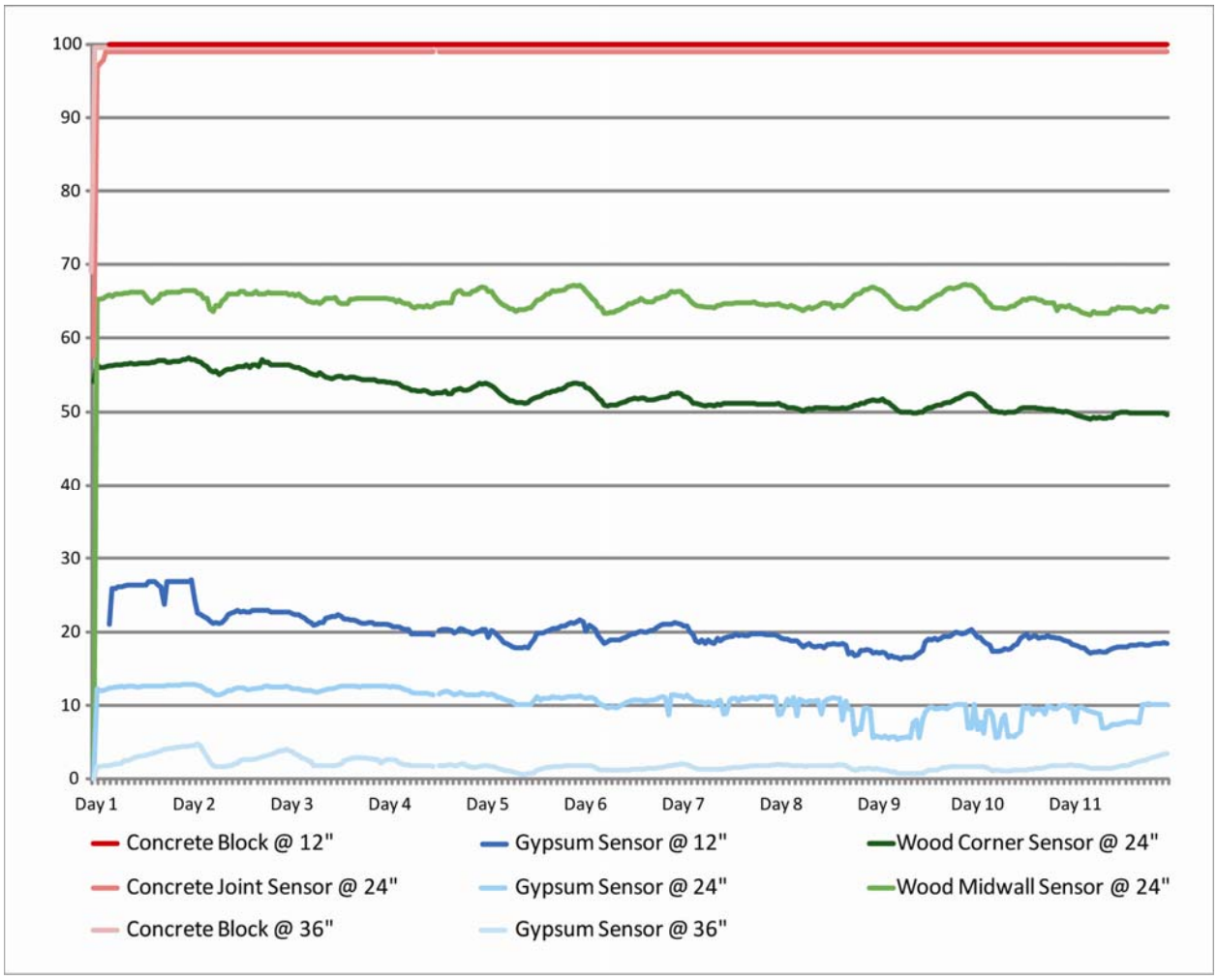

Fig. A.5. GRAPH: Drying period for test pod C: unsealed block after flood simulation 1.

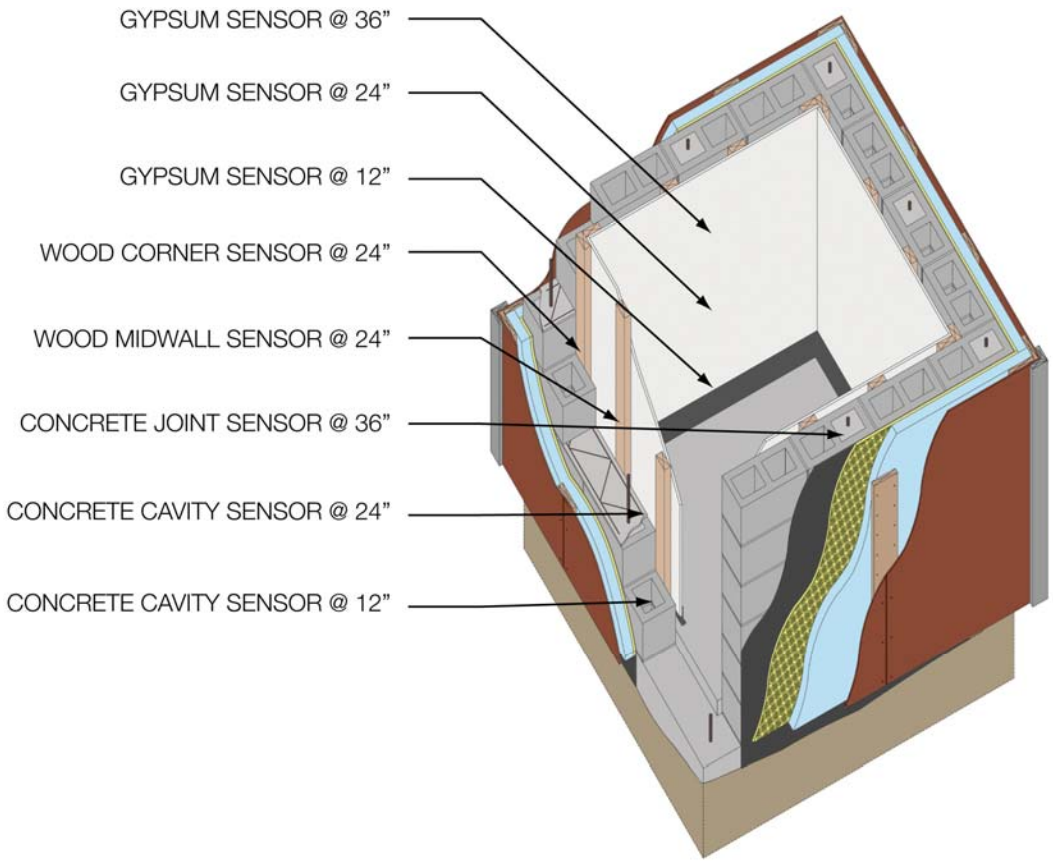

Fig. A.6. DIAGRAM: Sensor locations for test pod C: unsealed block after flood simulation 1.

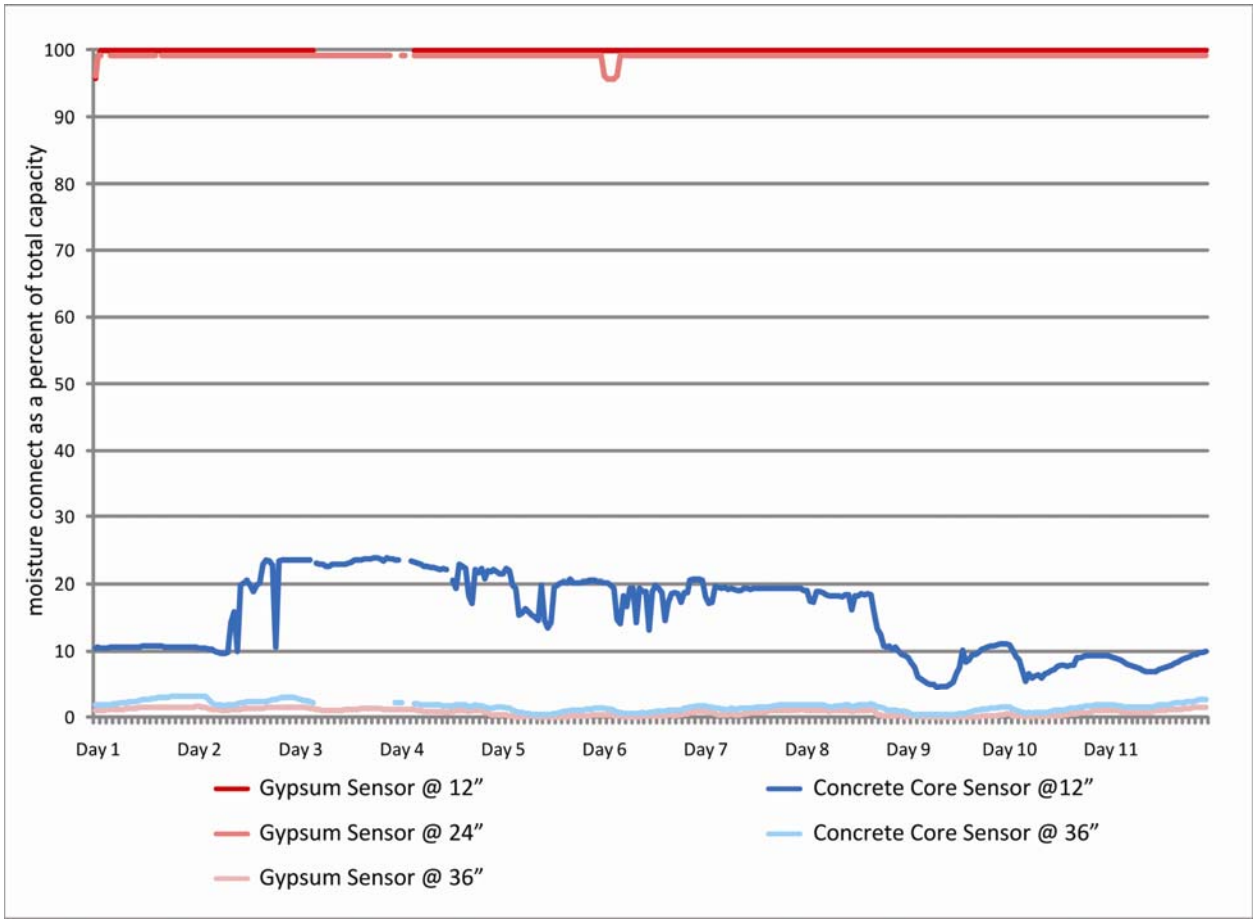

Fig. A.7. GRAPH: Drying period for test pod D: ICF after flood simulation 1.

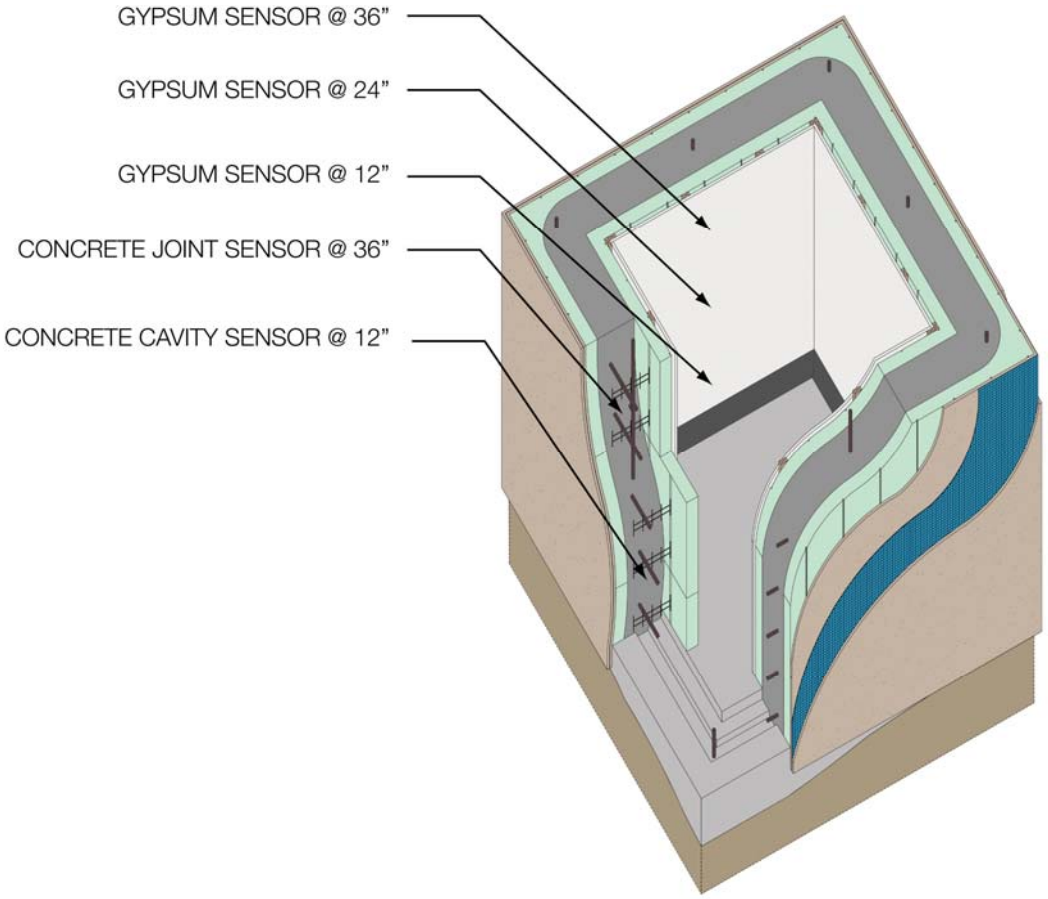

Fig. A.8. DIAGRAM: Sensor locations for test pod D: ICF after flood simulation 1.

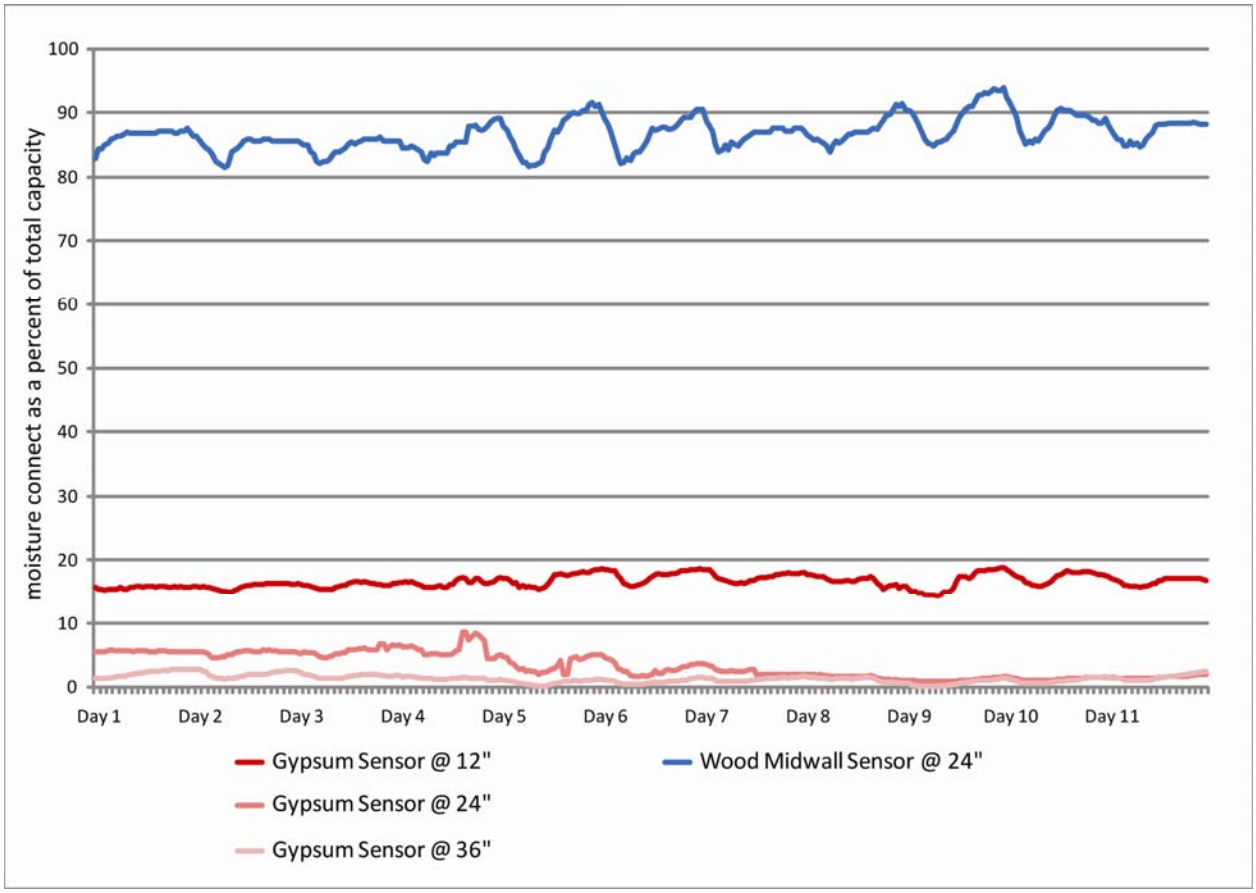

Fig. A.9. GRAPH: Drying period for test pod E: metal stud after flood simulation 1.

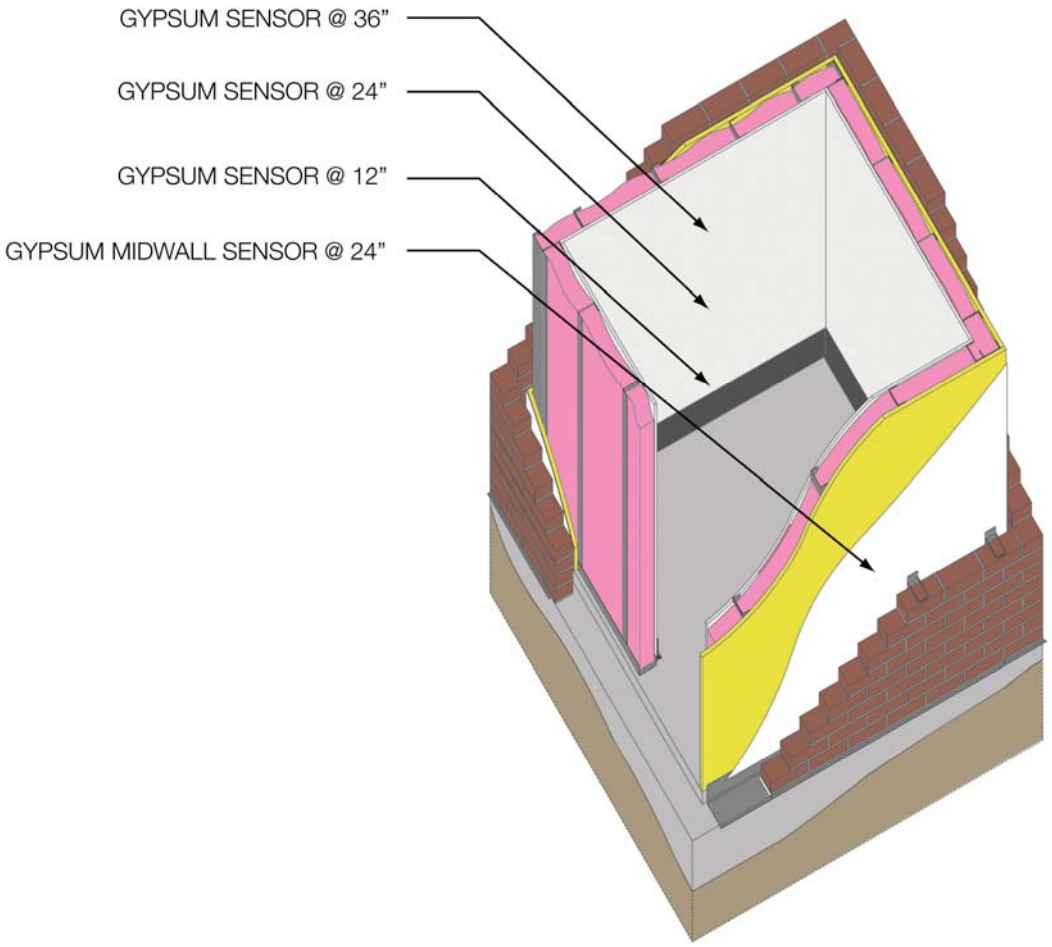

Fig. A.10. DIAGRAM: Sensor locations for test pod E: metal stud after flood simulation 1.

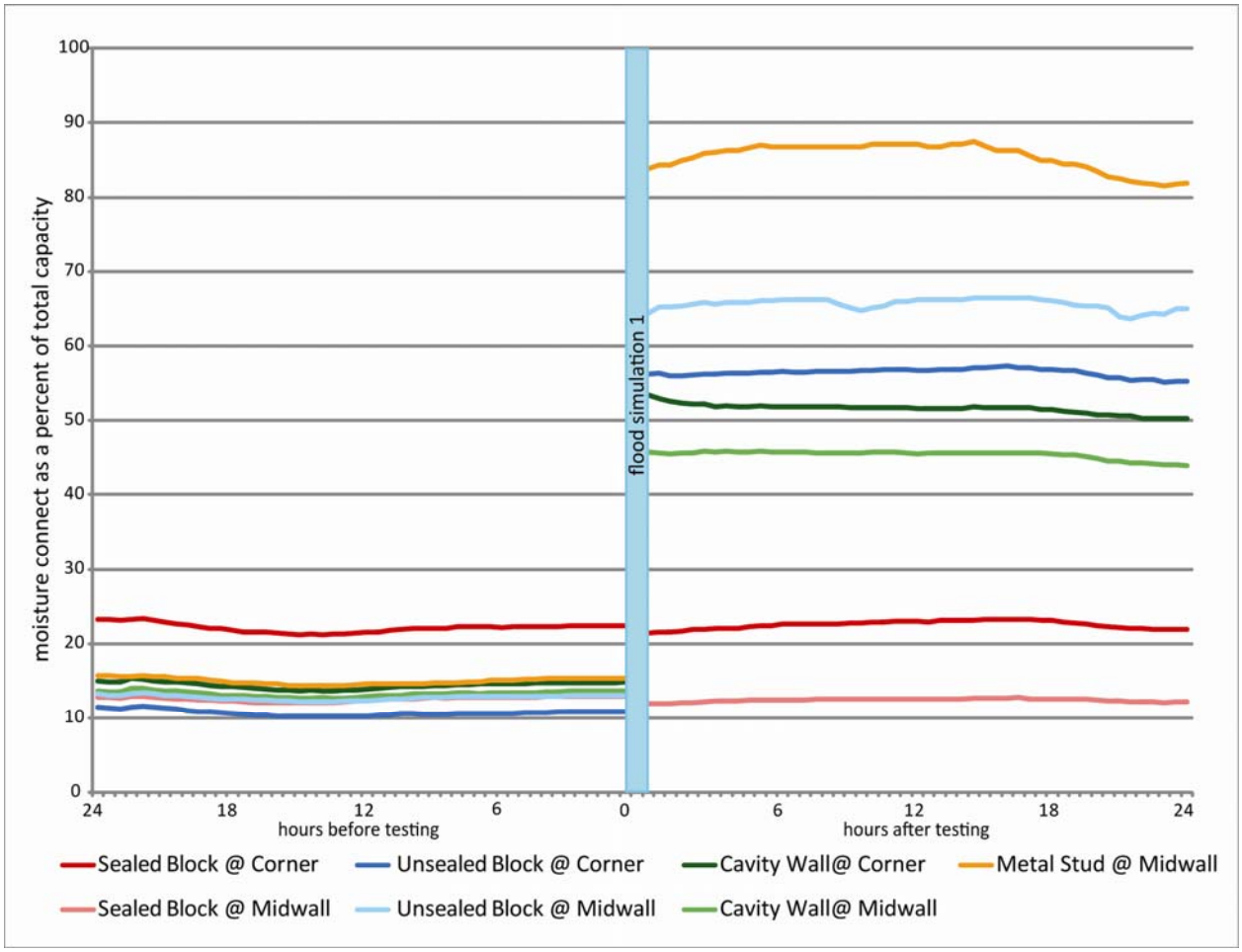

Fig. A.11. GRAPH: Wood sensor readings 24 hours before and after flood simulation 1.

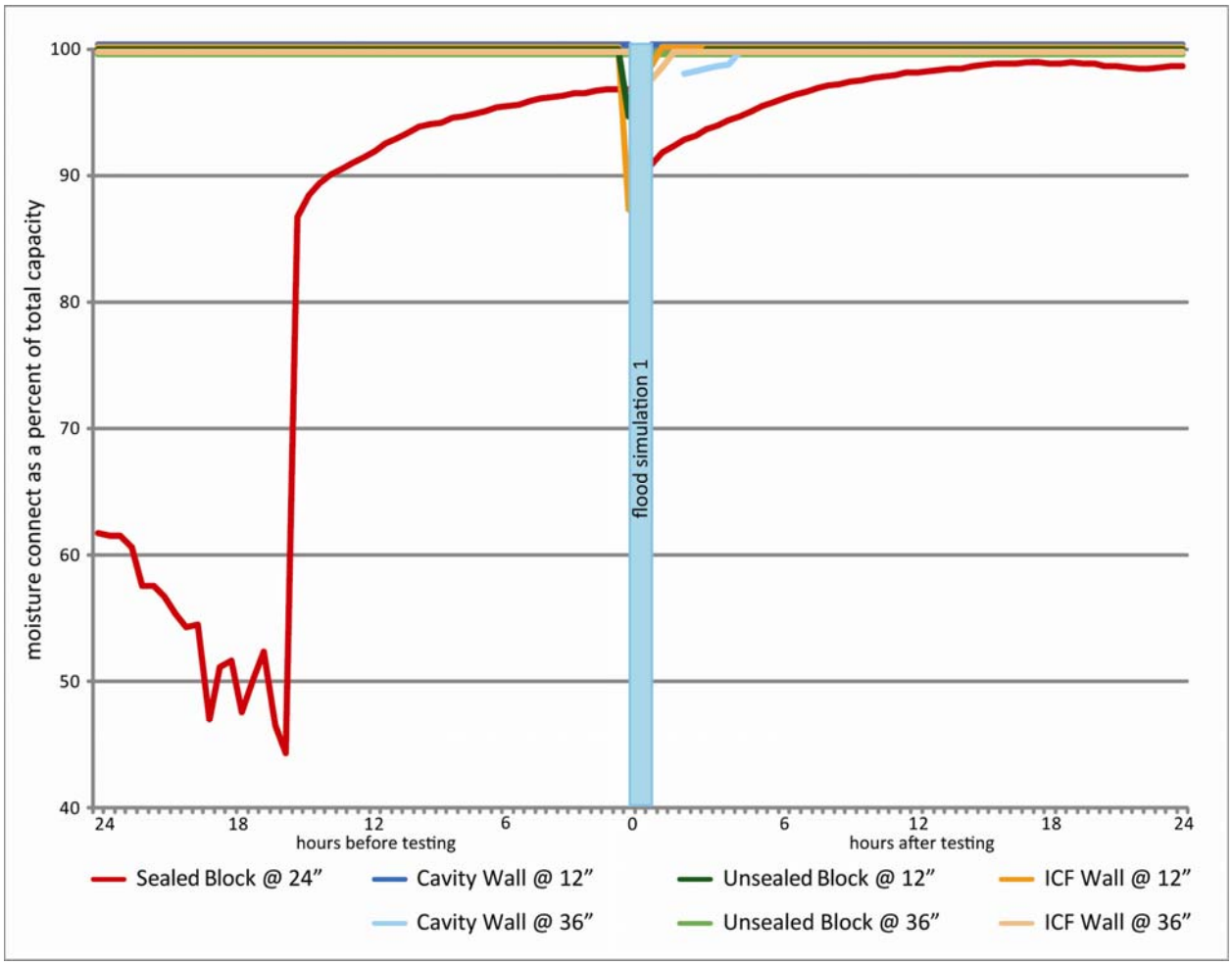

Fig. A.12. GRAPH: Concrete core sensor readings 24 hours before and after flood simulation 1.

A.3 Observations From Flood Simulation 2

Date	Time	Flooding Simulated Depth (in)	Test Pod G Interior Water Depth (in)	Test Pod H Interior Water Depth (in)	Test Pod A Interior Water Depth (in)	Test Pod B2 Interior Water Depth (in)	Test Pod D2 Interior Water Depth (in)	Test Pod F2 Interior Water Depth (in)
28-Jun	7:45 AM	0	0	0	0	0	0	0
	8:36 AM	10	*seepage south wall*	0	0	0	*seepage two corners*	*seepage two corners*
	8:50 AM	14	*more seepage, capillary action*	*seepage started*	0	0	*more seepeage*	*more seepage*
	9:45 AM	24	0	seepage	0	*seepage, early cells are seepaging more*	seepage	0.13
	10:45 AM	36	0.25	1.5	0	0.5	0.5	0.25
	11:45 AM	36	0.5	3.75	*corner seepage*	1.5	0.5	0.25
	12:45 PM	36	0.75	***6***	0	2.25	0.5	0.25
	1:45 PM	36	1	*6.5*	0	3	1	0.25
	2:45 PM	36	1	*8*	0	***4***	1.25	0.25
	3:45 PM	36	1.25	*9*	0	*5*	1.25	0.25
	5:45 PM	36	1.5	*10*	0	*7*	3	0.5
	7:45 PM	36	1.5	*12*	0.25	*8*	3	0.5
	9:45 PM	36	2.5	*12.5*	0.25	*9*	2.5	0.5
	11:45 PM	36	2.5	*14*	0.25	*10*	2.5	0.5
29-Jun	1:45 AM	36	3	*13.5*	0.25	*10*	3	0.5
	3:45 AM	36	3	*15*	0.25	*13.5*	3	0.5
	5:45 AM	36	3	*15.5*	0.25	*13.5*	3	0.5
	7:45 AM	36	3.5	*15.5*	0.25	*13.5*	3	0.5
	9:45 AM	36	3.5	*16*	0.25	*14*	3.5	0.5
	10:45 AM	36	3.75	*16.5*	0.25	*14.5*	3.75	0.5
	11:45 AM	31	3.75	*16.75*	0.25	*14.5*	3.75	0.5
	1:45 PM	12	3.75	*17*	0.25	*15.5*	3.75	0.5
	5:00 PM	0	**3.75**	*17*	**0.25**	*15.5*	**3.75**	**0.5**

Table 7. Observations from flood simulation 2.