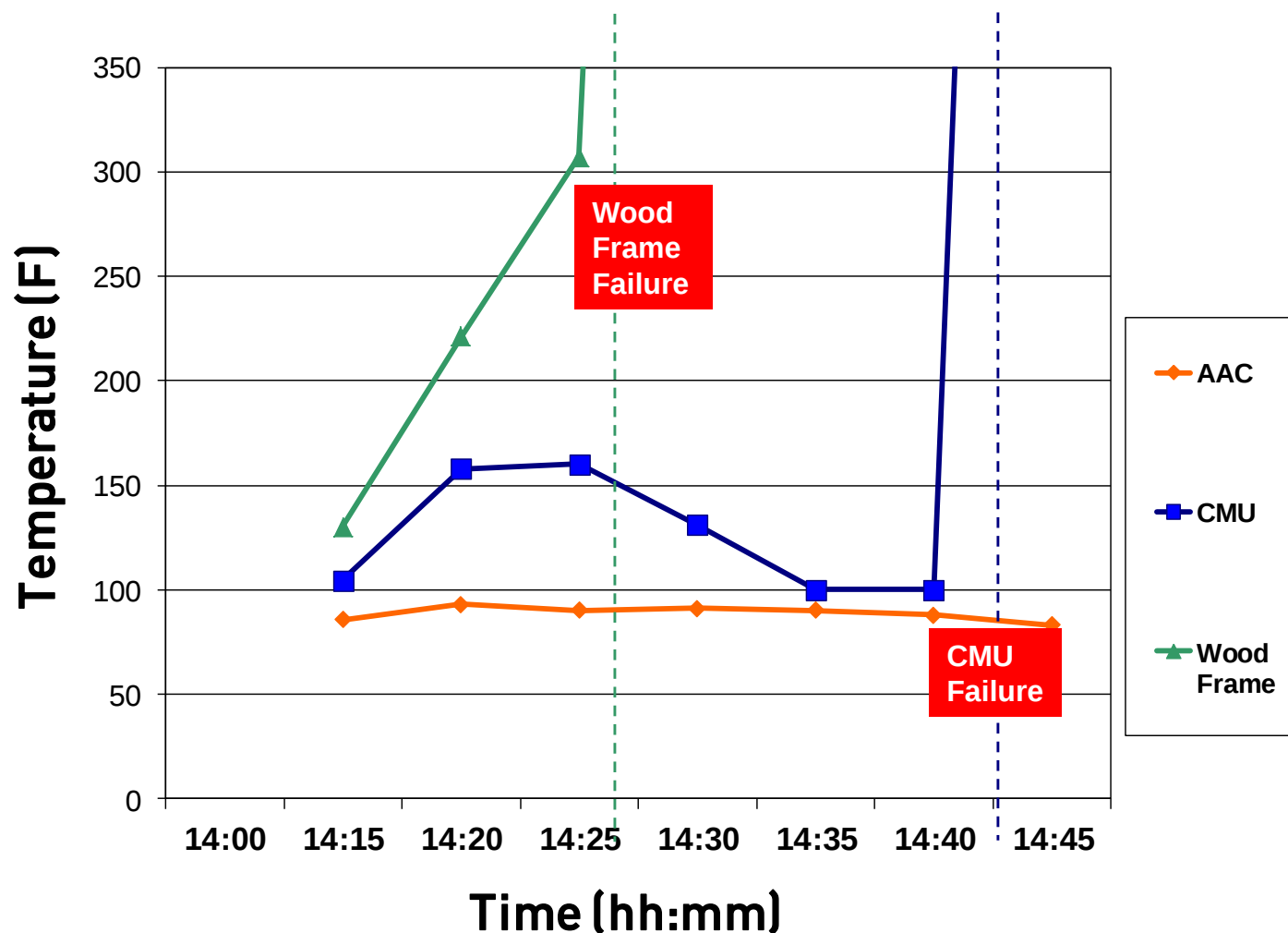




Fire Test of Building Materials: AAC, CMU & Wood

Fire Test of Building Materials: AAC, CMU & Wood



Monitoring Temperatures



Time	Temperature F° of Exterior Walls		
	Hebel AAC	CMU	Wood Frame
14:00	Start Time		
14:15	85	104	130
14:20	93	158	221
14:25	90	160	307
14:30	91	131*	Failure
14:35	90	100**	
14:40	88	100	
14:45	83	Failure	

* CMU Second Floor Burned through

**CMU walls separating

AAC, CMU and Wood Frame
Dimension LxWxH = 10' x 8' x 8'
36 wooden pallets per building



AAC Building

Walls: 8" Hebel AAC + Thin Bed Mortar

Floor: 8" Hebel AAC + 3000 psi Grout



CMU Building

Walls: 8" CMU + 1/2" Furring Strips + 1/2" Drywall

Floor: 5/8" OSB + 2"x10" Floor Joist + 1/2" Drywall



Wood Frame Building

Walls: ½" OSB + 2"x4" Wood + Batt Insulation
+ ½" Drywall

Floor: 5/8" OSB + 2"x10" Floor Joist + ½" Drywall



Burning for 10 minutes

 hebel[®]



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Burning for 16 Minutes



AAC



CMU



Wood Frame

AAC Burning for 22 Minutes



Burning for 28 Minutes



AAC



CMU



Wood Frame

Burning for 1 hour



AAC

CMU

Wood Frame

AAC Burning for 1Hr 15 Minutes



CMU Burning for 1Hr 15 Minutes



Wood Frame Burning for 1Hr 15 Minutes



Putting Out the Fire AAC Cleaning by Adel GA Fire Department



Putting Out the Fire CMU No need to clean



Putting Out the Fire Wood Frame. Nothing left



Hebel AAC is the most fire resistant building material on Earth!

