



GULF CONCRETE TECHNOLOGY

FIRE-RESISTANCE RATINGS COMPOSITE CONCRETE ASSEMBLIES



Fire Endurance Code Compliance in Accordance with IBC Section 721

- Tables below show 1-hour, 2-hour and 3-hour rated assemblies.
- Fire ratings were achieved by varying the mortar thickness.
- For wall assemblies, mortar thickness is symmetrical.
- For floor/roof assemblies, mortar has specific top and bottom thicknesses.

Assembly Name	Assembly Type	Required Mortar Cover Thickness Each Side (in)		
		1-Hour Rating	2-Hour Rating	3-Hour Rating ¹
PSM	Wall	1.25"	2"	2.75"
PHP	Wall	1.5"	2"	2.75"

Table 1: Mortar Thickness Required for GCT Wall Assemblies to Achieve the Listed Fire-Resistance Ratings

¹ A second layer or wire mesh is required with a minimum ½" cover.

Assembly Name	Assembly Type	Required Mortar Cover Thickness (in)					
		1-Hour Rating		2-Hour Rating		3-Hour Rating	
		Top	Bottom	Top	Bottom	Top	Bottom
PSM	Roof	2"	1"	3"	1"	4"	1.25"
PSG	Floor/Roof	2"	1"	3"	1"	4"	1.25"

Table 2: Mortar Thickness Required for GCT Roof/Floor Assemblies to Achieve the Listed Fire-Resistance Ratings

GCT Contact Information

Victor Camacho, PE - Sales & Operations VP: 787-643-2684 or vcamacho@carmelo.com

Vist us on the web at gulfconcretechnology.com



www.sbcinfo