

CMU Nominal Thickness <sup>1</sup>	REQUIRED FIRE RESISTANCE RATING <sup>2</sup>			
	1-hour	2-hour	3-hour	4-hour
8-inch	1. NW/MW 2. LW	1. NW/MW 2. LW	1. NW/MW with cell fill 2. LW with cell fill	1. NW/MW with cell fill 2. LW with cell fill
10-inch	1. NW/MW 2. LW	1. NW/MW 2. LW	1. NW/MW 2. LW	1. LW 2. MW 3. NW with cell fill
12-inch	1. MW/LW 2. NW	1. MW/LW 2. NW	1. MW/LW 2. NW	1. LW 2. MW 3. NW with cell fill

**Notes:**

1. Units meet the minimum requirements of ASTM C90 (8" and 12" units are more widely used).
2. Fire resistance ratings for CMU represent those determined as the *Calculated Fire Resistance* permitted in IBC Section 703.3 and discussed in Section 722.3.2.
3. NW - normal weight (125 pcf or more).
4. MW - medium weight (105 pcf to less than 125 pcf).
5. LW - lightweight (less than 105 pcf).
6. Cell fill includes grout, sand, pea gravel, crushed stone, or slag that meet ASTM C33 requirements; pumice, scoria, expanded shale, expanded clay, expanded slate, expanded slag, expanded fly ash, or cinders that comply with ASTM C331; or perlite or vermiculite meeting the requirements of ASTM C549 and ASTM C516, respectively.
7. The numbering order (1, 2, or 3) is by preference as determined by the MIM Block Producers Committee for producers in the State of Michigan.
8. Attention should be paid to control joints, top of wall conditions, and other areas which impact the wall assembly.