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### Heat Capacities of 8" (203mm) Omni Block Masonry Walls

Vertical Grout Spacing o.c.		Mortar Bedding	Wall Heat Capacity (HC) Btu/ft <sup>2</sup> °F (kJ/m <sup>2</sup> K) for concrete densities, lb/ft <sup>3</sup> (kg/m <sup>3</sup> ) of:											
in	mm		85 (1,362)	95 (1,522)	105 (1,682)	115 (1,842)	125 (2,003)	135 (2,163)	85 (1,362)	95 (1,522)	105 (1,682)	115 (1,842)	125 (2,003)	135 (2,163)
0	0	Face Shell	5.2 (34)	5.8 (37)	6.3 (41)	6.9 (45)	7.5 (48)	8.0 (52)	5.2 (34)	5.8 (37)	6.3 (41)	6.9 (45)	7.5 (48)	8.0 (52)
8	203	Full	15.2 (98)	15.8 (102)	16.3 (105)	16.9 (109)	17.5 (113)	18.0 (116)	15.2 (98)	15.8 (102)	16.3 (105)	16.9 (109)	17.5 (113)	18.0 (116)
16	406	Face Shell	10.2 (66)	10.8 (70)	11.4 (73)	11.9 (77)	12.5 (81)	13.1 (84)	10.2 (66)	10.8 (70)	11.4 (73)	11.9 (77)	12.5 (81)	13.1 (84)
24	812	Face Shell	8.5 (55)	9.1 (59)	9.7 (62)	10.3 (66)	10.8 (70)	11.4 (73)	8.5 (55)	9.1 (59)	9.7 (62)	10.3 (66)	10.8 (70)	11.4 (73)
32	1016	Face Shell	7.7 (50)	8.3 (53)	8.8 (57)	9.4 (61)	10.0 (64)	10.5 (68)	7.7 (50)	8.3 (53)	8.8 (57)	9.4 (61)	10.0 (64)	10.5 (68)
40	1219	Face Shell	7.2 (47)	7.8 (50)	8.3 (54)	8.9 (58)	9.5 (61)	10.0 (65)	7.2 (47)	7.8 (50)	8.3 (54)	8.9 (58)	9.5 (61)	10.0 (65)
48	1422	Face Shell	6.9 (44)	7.4 (48)	8.0 (52)	8.6 (55)	9.1 (59)	9.7 (63)	6.9 (44)	7.4 (48)	8.0 (52)	8.6 (55)	9.1 (59)	9.7 (63)

- 1) Reference National Concrete Masonry Association (NCMA) TEK 06-16A; abbreviated.
- 2) Assumption that Omni Block stretcher face shells are dimensionally the same as standard CMU 8" face shells.
- 3) The nominal weight of an Omni Block stretcher is 6% more than a standard CMU of the same density therefore the above values are conservative.

### Heat Capacities of 12" (305mm) Omni Block Masonry Walls

Vertical Grout Spacing o.c.		Mortar Bedding	Wall Heat Capacity (HC) Btu/ft <sup>2</sup> °F (kJ/m <sup>2</sup> K) for concrete densities, lb/ft <sup>3</sup> (kg/m <sup>3</sup> ) of:											
in	mm		85 (1,362)	95 (1,522)	105 (1,682)	115 (1,842)	125 (2,003)	135 (2,163)	85 (1,362)	95 (1,522)	105 (1,682)	115 (1,842)	125 (2,003)	135 (2,163)
0	0	Face Shell	6.6 (42)	7.3 (47)	8.0 (52)	8.8 (56)	9.5 (61)	10.2 (66)	6.6 (42)	7.3 (47)	8.0 (52)	8.8 (56)	9.5 (61)	10.2 (66)
8	203	Full	23.9 (154)	24.6 (159)	25.3 (164)	26.1 (168)	26.8 (173)	27.5 (178)	23.9 (154)	24.6 (159)	25.3 (164)	26.1 (168)	26.8 (173)	27.5 (178)
16	406	Face Shell	15.3 (98)	16.0 (103)	16.7 (108)	17.4 (113)	18.2 (117)	18.9 (122)	15.3 (98)	16.0 (103)	16.7 (108)	17.4 (113)	18.2 (117)	18.9 (122)
24	812	Face Shell	12.4 (80)	13.1 (84)	13.8 (89)	14.5 (94)	15.3 (99)	16.0 (103)	12.4 (80)	13.1 (84)	13.8 (89)	14.5 (94)	15.3 (99)	16.0 (103)
32	1016	Face Shell	10.9 (70)	11.6 (75)	12.4 (80)	13.1 (85)	13.8 (89)	14.6 (94)	10.9 (70)	11.6 (75)	12.4 (80)	13.1 (85)	13.8 (89)	14.6 (94)
40	1219	Face Shell	10.0 (65)	10.8 (70)	11.5 (74)	12.2 (79)	13.0 (84)	13.7 (88)	10.0 (65)	10.8 (70)	11.5 (74)	12.2 (79)	13.0 (84)	13.7 (88)
48	1422	Face Shell	9.5 (61)	10.2 (66)	10.9 (70)	11.7 (75)	12.4 (80)	13.1 (85)	9.5 (61)	10.2 (66)	10.9 (70)	11.7 (75)	12.4 (80)	13.1 (85)

- 1) Reference National Concrete Masonry Association (NCMA) TEK 06-16A; abbreviated.
- 2) Assumption that Omni Block stretcher face shells are dimensionally the same as standard CMU 12" face shells.
- 3) The nominal weight of an Omni Block stretcher is 6% more than a standard CMU of the same density therefore the above values are conservative.