



Protection is a concrete idea.

TOTAL THERMAL RESISTANCE (R-value) of a 12" x 8" x 16" HI-R-H CONCRETE BLOCK USING ASHRAE SERIES-PARALLEL ISOTHERMAL PLANES METHOD

Type 1 Wall: HI-R-H Wall System Only

Type 2 Wall: HI-R-H Wall System, 1/2 inch gypsum board on furring strips

Type 3 Wall: HI-R-H Wall System, 1/2 inch foil-backed gypsum board on furring strips

Revised 1-28-2015

Concrete Density (lb/ft ³)	80	95	100	105	110	115	120	125	130	135	140	145
Kconcrete	2.48	3.34	3.69	4.08	4.51	4.99	5.51	6.09	6.73	7.44	8.22	9.09
Concrete Resistivity (Rc)	0.403	0.299	0.271	0.245	0.222	0.200	0.181	0.164	0.149	0.134	0.122	0.110
CMU SIZE-12"												
12 x 8 x 16 HI-R-H Wall Type 1-Insulated	18.73	16.65	15.96	15.28	14.61	13.95	13.30	12.66	12.04	11.45	10.86	10.31
12 x 8 x 16 HI-R-H Wall Type 1-Insulated	0.053	0.060	0.063	0.065	0.068	0.072	0.075	0.079	0.083	0.087	0.092	0.097
12 x 8 x 16 HI-R-H Wall Type 1-Insulated & Grouted 125lb/cu.ft.	18.42	16.34	15.65	14.97	14.30	13.64	12.99	12.35	11.73	11.14	10.55	10.00
12 x 8 x 16 HI-R-H Wall Type 1-Insulated & Grouted 125lb/cu.ft.	0.054	0.061	0.064	0.067	0.070	0.073	0.077	0.081	0.085	0.090	0.095	0.100
12 x 8 x 16 HI-R-H Wall Type 2-Insulated	20.13	18.05	17.36	16.68	16.01	15.35	14.70	14.06	13.44	12.85	12.26	11.71
12 x 8 x 16 HI-R-H Wall Type 2-Insulated	0.050	0.055	0.058	0.060	0.062	0.065	0.068	0.071	0.074	0.078	0.082	0.085
12 x 8 x 16 HI-R-H Wall Type 2-Insulated & Grouted 125lb/cu.ft.	19.82	17.74	17.05	16.37	15.70	15.04	14.39	13.75	13.13	12.54	11.95	11.40
12 x 8 x 16 HI-R-H Wall Type 2-Insulated & Grouted 125lb/cu.ft.	0.050	0.056	0.059	0.061	0.064	0.067	0.070	0.073	0.076	0.080	0.084	0.088
12 x 8 x 16 HI-R-H Wall Type 3-Insulated	21.56	19.48	18.79	18.11	17.44	16.78	16.13	15.49	14.87	14.28	13.69	13.14
12 x 8 x 16 HI-R-H Wall Type 3-Insulated	0.046	0.051	0.053	0.055	0.057	0.060	0.062	0.065	0.067	0.070	0.073	0.076
12 x 8 x 16 HI-R-H Wall Type 3-Insulated & Grouted 125lb/cu.ft.	21.25	19.17	18.48	17.80	17.13	16.47	15.82	15.18	14.56	13.97	13.38	12.83
12 x 8 x 16 HI-R-H Wall Type 3-Insulated & Grouted 125lb/cu.ft.	0.047	0.052	0.054	0.056	0.058	0.061	0.063	0.066	0.069	0.072	0.075	0.078

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