

Thermal Properties of Hi-R®

A third party thermal analysis was completed making use of the Hot Box Test Data from three accredited laboratory services. A complete Engineering Report dated November 20, 1996, including Addendum Added Nov. 1, 2002, is available upon request. It covers the thermal values of the Hi-R Masonry Wall Systems.

8-Inch Wide Hi-R Wall System

DENSITY OF BLOCK—LBS/FT ³	Wall Type 1*		Wall Type 2**		Wall Type 3***	
	R _t	U	R _t	U	R _t	U
80	12.21	0.082	13.61	0.074	15.04	0.067
100	10.27	0.097	11.67	0.086	13.10	0.076
120	8.50	0.118	9.90	0.101	11.33	0.088

10-Inch Wide Hi-R Wall System

DENSITY OF BLOCK—LBS/FT ³	Wall Type 1*		Wall Type 2**		Wall Type 3***	
	R _t	U	R _t	U	R _t	U
80	13.92	0.072	15.32	0.065	16.75	0.060
100	11.87	0.084	13.27	0.075	14.70	0.068
120	9.95	0.100	11.35	0.088	12.78	0.078

12-Inch Wide Hi-R Wall System

DENSITY OF BLOCK—LBS/FT ³	Wall Type 1*		Wall Type 2**		Wall Type 3***	
	R _t	U	R _t	U	R _t	U
80	14.56	0.069	15.96	0.063	17.39	0.058
100	12.48	0.080	13.88	0.072	15.31	0.065
120	10.50	0.095	11.90	0.084	13.33	0.075

12-Inch Cavity Wall, 4-Inch Dense Outer Wythe, 3/4-Inch Air Space, 8-Inch Wide Hi-R Unit

DENSITY OF BLOCK—LBS/FT ³	Wall Type 1*		Wall Type 2**		Wall Type 3***	
	R _t	U	R _t	U	R _t	U
80	13.62	0.073	15.02	0.067	16.45	0.061
100	11.68	0.086	13.08	0.077	14.51	0.069
120	9.91	0.101	11.31	0.088	12.74	0.079

* Hi-R Wall System only.

** Hi-R Wall System, ½ inch gypsum board on furring strips.

*** Hi-R Wall System, ½ inch foil-backed gypsum board on furring strips.