

## energex® Insulation Guide

### How much Insulation with energex®?

The following detailed calculations demonstrate what can be achieved with the energex system. From this chart, you can determine the amount of insulation required.

It should be noted that **energex®** requires no changes in the building structure. No internal space is used. No additional work is required, and no significant weight is added. Significant benefits are realized in occupant comfort along with minimal upkeep. Other benefits include lowering initial investment in heating and cooling and in operating expenses.

### Assumptions

- 8" Concrete = 8" actual
- 8" Block = 7 5/8" actual
- Lamina = 1/8" total
- Matrix @ Substrate = 1/8"
- Steel and Wood Studs = 3 5/8"
- \*Exterior Grade Gypsum Sheathing conforming to ASTM-C79.
- \*\*Assumes:
  - A. Thickness @ left
  - B. Enerfree finish w/std. base coat

### Examples of Insulation Values

Wall	1.0" Insulation		2.0" Insulation		3.0" Insulation		4.0" Insulation	
	R	T**	R	T**	R	T**	R	T**
1/2" Gypsum Sheathing* 3 5/8" Steel Studs 16" o.c. 1/2" Drywall	6.56	5 7/8"	10.40	6 7/8"	14.14	7 7/8"	18.08	8 7/8"
5/8" Gypsum Sheathing* 3 5/8" Steel Studs 24" o.c. 5/8" Drywall	6.77	6 1/8"	10.62	7 1/8"	14.46	8 1/8"	18.30	9 1/8"
1/2" Gypsum Sheathing* 2" x 4" Wood Studs 16" o.c. 1/2" Drywall	6.77	5 7/8"	10.64	6 7/8"	14.15	7 7/8"	18.36	8 7/8"
5/8" Gypsum Sheathing* 2" x 4" Wood Studs 24" o.c. 1/2" Drywall	6.92	6 1/8"	10.78	7 1/8"	14.64	8 1/8"	18.48	9 1/8"
8" Concrete 1/2" Plaster	5.51	9 3/4"	9.36	10 3/4"	13.20	11 3/4"	17.40	12 3/4"
8" Concrete Block 1/2" Plaster	5.95	9 3/8"	9.80	10 3/8"	13.64	11 3/8"	17.48	12 3/8"

**Important Notice to Purchaser:** The following is made in lieu of all warranties, express or implied: **energex®**'s (eifs, inc.) only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequently arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers of seller and manufacturer.