

# Energy Efficiency

## Savings you can bank on!

### Simply Insulate to Save Energy

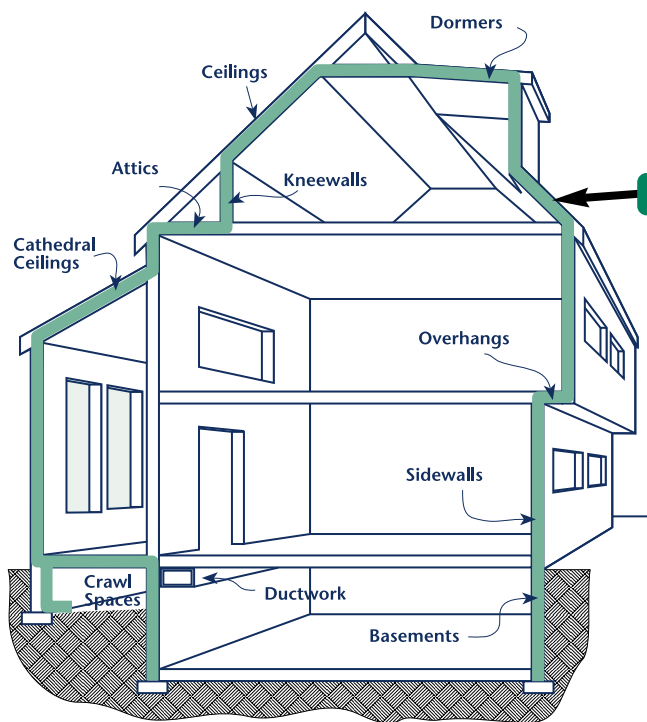


**NAIMA**  
NORTH AMERICAN INSULATION  
MANUFACTURERS ASSOCIATION

The U.S. Department of Energy's (DOE) Office of Building Technology's number-one recommendation for energy-saving measures to help consumers reduce energy bills is insulation!

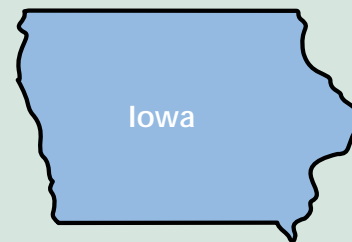
## “ #1 Insulation

Upgrade insulation in attics, basements, walls and floors. It's a fast and easy way to save up to 30% on your energy costs. ”



### RECOMMENDED LEVELS OF INSULATION

This chart provides the U.S. Department of Energy's (DOE) recommended levels of insulation for homes heated with gas, fuel oil or heat pump.



House Area	R-value
Attic	R49
Cathedral Ceiling	R38
Wall	R18
Floor	R25
Crawl Space	R19
Slab Edge	R8
Interior Basement	R11
Exterior Basement	R10

#### Notes:

- DOE may show zone variations, but recommended R-values are the same for the state.
- Insulation is identified and labeled by R-value. "R" stands for resistance to heat flow. Savings vary. Find out why in the Seller's Fact Sheet on R-value. Higher R-values mean greater insulating power. Ask your seller for the Fact Sheet on R-value.
- Wall R-values are for wood-frame construction.
- R18 exterior wall systems can be achieved by either cavity insulation or cavity insulation with insulating sheathing. For 2"x4" walls, use R15 or 3-1/2" R13 fiber glass insulation with insulated sheathing. For 2"x6" walls, use either 5-1/2" thick R21 or 6-1/4" R19 fiber glass insulation.
- Insulate crawl space walls only if the crawl space is dry all year, the floor above is not insulated, and all ventilation to the crawl space is blocked. A vapor retarder (e.g., 4- or 6-mil polyethylene film) should be installed on the ground to reduce moisture migration into the crawl space.
- The R-values provided in the chart above represent the U.S. Dept. of Energy's (DOE) recommended R-values for all types of insulation. Therefore, required thickness will vary with different insulation products.
- DOE recommends higher R-values for homes with electric resistance heat. Refer to the DOE website for details.

The DOE also recommends insulating heating and air conditioning ducts, wrapping your hot water tanks and pipes with insulation, sealing air leaks, improving windows and lighting, and other measures.

To learn more about what you can do to save energy, call 1-800-DOE-3732, visit DOE's website at [www.eren.doe.gov/consumerinfo/energy\\_savers](http://www.eren.doe.gov/consumerinfo/energy_savers) and visit the following websites:

- Iowa Department of Natural Resources- Energy Bureau, <http://www.state.ia.us/dnr/energy>
- <http://www.SimplelyInsulate.com>