

Evaluating the R-value of pre-existing insulation

Insulation type	R-value per inch of thickness
Fiber glass blanket or batt	2.9 to 3.8 (use 3.2)
High performance fiber glass blanket or batt	3.7 to 4.3 (use 3.8)
Loose-fill fiber glass	2.3 to 2.7 (use 2.5)
Loose-fill rock wool	2.7 to 3.0 (use 2.8)
Loose-fill cellulose	3.4 to 3.7 (use 3.5)
Perlite or vermiculite	2.4 to 3.7 (use 2.7)
Expanded polystyrene board	3.6 to 4 (use 3.8)
Extruded polystyrene board	4.5 to 5 (use 4.8)
Polyisocyanurate board, unfaced	5.6 to 6.3 (use 5.8)
Polyisocyanurate board, foil-faced	7
Spray polyurethane foam	5.6 to 6.3 (use 5.9)

(Includes effects of aging and settling.)

Use this formula to determine the R-value of your **existing** insulation:

$$\boxed{} \times \boxed{} = \boxed{}$$

Thickness (inches) × R-value per inch = Total R-value

Use this formula to determine how much insulation you need to **add**:

$$\boxed{} - \boxed{} = \boxed{}$$

Recommended R-value - Existing insulation R-value = R-value needed

Do you want to know if you have the space available to add the insulation you need?

Then use this formula to determine the *approximate* thickness you need to add:

$$\boxed{} \div \boxed{} = \boxed{}$$

R-value needed ÷ R-value per inch = Approximate thickness needed

Note: Use the product information on the insulation packaging to determine the actual thickness for any *new* insulation.