

(Information from NAHR Research Foundation)

Insulation Type	Approximate Inches Needed For:					
	R11	R19	R22	R30	R38	R49
Loose-fill/Machine-blown						
Fiberglass	5	8.5	10	13.5	17	22
Mineral Wool	3.5	6	7	10	12.5	16
Cellulose	3	5.5	6	8.5	10.5	13.5
Batts or Blankets						
Fiberglass	3.5	6	7	10	12.5	16
Mineral Wool	3.5	6	7	10	12.5	16
Rigid Board						
Polystyrene Beadboard	3	5.5	6.5	8.5	10.5	14
Extruded Polystyrene	2-3	3.5-5	5-5.4	5.5-7.5	7-9.5	12.5
(Styrofoam) Urethane	2	3	3.5	5	6.5	8
Fiberglass	3	5	5.5	7.5	9.5	12.5
Other Values						
Wood bevel siding - 1/2x8 lapped	R-0.81					
Wood siding shingles - 16", 7 1/2 exposure			R-0.87			
Asbestos-cement shingles	R-0.03					
Stucco, per inch	R-0.20					
Building paper	R-0.06					
1/2" nail-base insul. board sheathing	R-1.14					
1/2" insul. board sheathing, reg. density			R-1.32			
23/32" insul. board sheathing, reg. density			R-2.04			
1/4" plywood	R-0.31					
3/8" plywood	R-0.47					
1/2" plywood	R-0.62					
5/8" plywood	R-0.78					
1/4" hardboard	R-0.18					
Softwood, per inch	R-1.25					
Softwood board, 3/4"	R-0.94					
Concrete blocks, three oval cores						
Cinder aggregate, 4" thick	R-1.11					
Cinder aggregate, 12" thick	R-1.89					
Cinder aggregate, 8" thick	R-1.72					
Sand and gravel aggregate, 8" thick	R-1.11					
Lightweight aggregate (expanded clay, shale, slag, pumice, etc.) 8" thick					R-2.00	

Concrete blocks, two rectangular cores

Sand and gravel aggregate, 8" thick	R-1.04
Lightweight aggregate, 8" thick	R-2.18
Common brick, per inch	R-0.02
Face brick, per inch	R-0.11
Sand-and-gravel concrete, per inch	R-0.08
1/2" gypsumboard	R-0.45
5/8" gypsumboard	R-0.56
1/2" lightweight-aggregate gypsum plaster	R-0.32
25/32" hardwood finish floor	R-0.68
Asphalt, linoleum, vinyl or rubber tile	R-0.05
Carpet and fibrous pad	R-2.08
Carpet and foam rubber pad	R-1.23
Asphalt roof shingles	R-0.44
Wood roof shingles	R-0.94
3/8" built-up roof	R-0.33

Glass

Single glass (winter)	R-0.88
Single glass (summer)	R-0.94

Insulated glass (double)

1/4" air space (winter)	R-1.54
1/4" air space (summer)	R-1.64
1/2" air space (winter)	R-1.72
1/2" air space (summer)	R-1.78

Storm windows

1"-4" air space (winter)	R-1.78
1"-4" air space (summer)	R-1.85

Blue Ridge Electric Cooperative has trained personnel who can assist you if your evaluation does not prove successful. Please call your local Co-op office for further assistance.