

APPENDICES

A-1 R-VALUES FOR COMMON MATERIALS

Material	R-value
Fiberglass or rock wool batts and blown 1"	2.8–4.0
Blown cellulose 1"	3.0–4.0
Vermiculite loose fill 1"	2.7
Perlite 1"	2.4
White expanded polystyrene foam (beadboard) 1"	3.9–4.3
Polyurethane/polyisocyanurate foam 1"	6.2–7.0
Extruded polystyrene 1"	5.0
High-density 2-part polyurethane foam 1"	5.8–7.5
Low-density 2-part polyurethane foam 1"	3.6
Oriented strand board (OSB) or plywood $\frac{1}{2}$ "	1.6
Concrete or stucco 1"	0.1
Wood 1"	1.0
Carpet/pad $\frac{1}{2}$ "	2.0
Wood siding $\frac{3}{8}$ – $\frac{3}{4}$ "	0.6–1.0
Concrete block 8"	1.1
Asphalt shingles	0.44
Fired clay bricks 1"	0.1–0.4
Gypsum or plasterboard $\frac{1}{2}$ "	0.4
Single pane glass $\frac{1}{8}$ "	0.9
Low-e insulated glass (Varies according to Solar Heat Gain Coefficient (SHGC) rating.)	3.3–4.2