

Advanced Comfort Systems, Inc.

123 Carlton Ave
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The Chart below will give you an idea of the R-Value of the floor covering which you may want to use in your home.

FLOOR COVERING R-VALUE	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	1.00"
Bare Floor	0.0						
Plywood (Medium or High Density)			0.3	0.5	0.7	0.9	1.1
Sheet goods							
Vinyl	0.2						
Linoleum (uninsulated)	0.2						
Linoleum (insulated)		0.4					
Cork		0.3		0.6		0.9	1.2
Tiles and Stones (w/thinset base)							
Ceramic Tile		0.3		0.5		0.8	1.0
Limestone				0.5		0.8	1.0
Stone (quarried)				0.4			0.8
Marble		0.2		0.4			0.8
Brick							1.0
CARPET and PADS							
Commercial Glue Down		0.6	0.8				
Level Loop			1.5	2.0	2.5	NR	NR
Plush			0.4	0.8	1.2	1.6	2.4
Shag,			0.8	1.0	1.6	2.4	NR
Saxony			1.3	1.7	2.2	NR	NR
Wool			2.5	NR	NR	NR	NR
Rubber (solid)	0.3	0.6	0.9	1.2	NR	NR	NR
Rubber (waffled)	0.2	0.4	0.6	0.8	1.0	NR	NR
Felt	1.0	1.5	NR	NR	NR	NR	NR
Hair and Jute		1.0	1.5	NR	NR	NR	NR
Prime Urethane		1.0	1.5	2.0	NR	NR	NR
Ultra Prime Urethane			0.7				
Bonded Urethane			1.5	NR	NR	NR	NR
Wood Flooring							
Hardwoods							
Ash			0.4	0.5	0.6	0.8	1.0
Cherry			0.3	0.4	0.5	0.6	0.8
Elm			0.4	0.5	0.6	0.8	1.0
Mahogany			0.3	0.3	0.4	0.5	0.7
Maple			0.4	0.5	0.6	0.8	1.0
Oak			0.3	0.4	0.5	0.6	0.8
Walnut			0.3	0.4	0.5	0.6	0.8
Softwoods							
Fir			0.4	0.6	0.7	0.9	1.2
Pine			0.5	0.7	0.8	1.0	1.3
Spruce			0.5	0.7	0.8	1.0	1.3
Wood Flooring Pad	0.2	0.4					

NR: Not recommended due to tile high R-Value of tile specific thickness.
All data is from the National Flooring Institute's 1990 study or ASHRAE thermoconductivity values.

This information taken from Wirsbo Complete Design Assistance Manual

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