



Installing Carpet Over Warmboard

Padding and carpet is a very common finish floor to use over Warmboard. The carpet cushion (padding) can be installed directly over the Warmboard panels. Before installing the carpet cushion it is necessary to fill all of the empty grooves to provide an even surface for installation. Empty grooves can be filled with scrap pex tubing. Another option is to use a floor leveling compound or Portland cement to fill the empty grooves making them flush and level with the panel surface. Do not install padding and carpet until all the loops have been properly pressure tested.

When choosing a carpet cushion/carpet assembly we recommend a product that has a low R-value rating. The advantage of using a product with a low R-value is to keep the radiant floor system very simple. Meaning the system can use the same water temperatures for the tile, hardwood, and carpet in a home. This type of system is referred to as a one temperature system. To achieve a simple one temperature system, it is best to purchase a carpet and carpet cushion assembly that does not exceed an R-value of 2. If the R-value assembly exceeds R-2, a two temperature system may be required.

The Radiant Panel Association recommends that the surface temperature of carpet does not exceed 85 degrees. Warmboard Inc. supports this RPA recommendation.

For other carpet cushion options review Group Two on page 22.

Sponge Cushion

Tel:1-800-435-4062

Fax: 800-423-3557

<http://www.sponge-cushion.com>

Product	R-Values
Luxury Step	.80
Full House	.68
Berber Supreme	.59
Berber Master	.35
Silent Walk	.46
SP 380	.66
Tred-MOR 1562	.27
Tred-MOR 2568	.46
Tred-MOR 2580	.48
Tred-MOR 2500	.34
Deci-BLOK	.10

Leggett & Platt

Tel: 1-800-866-9446

<http://www.lpurethane.com/rubber.asp>

Product	R-Values
STAINMASTER® Ultra (APC)	.80
STAINMASTER® Plus (APC)	.70
Deluxe	.68
Martinique	.73
Rise	.80
Brava	.69
Plushmate	.74
Superba	.70
GrandStand	.68
Barcelona	.44
Thunder Bay	.50
Pure Comfort	.68



Carpet and Padding R-Values

Carpet Thickness	R-Value
1/8"	R-0.6
1/4"	R-1.0
1/2"	R-1.4
3/4"	R-1.8
1"	R-2.2

Carpet Cushion R-Value					
<i>In General</i>					
Group One					
	Density	Thickness	R-Value		
Prime Urethane	2.2 lb/cu ft	1/4"	R-1.08	Not Recommended	
		3/8"	R-1.62		
		1/2"	R-2.15		
Bonded Urethane	4-8 lb/cu ft	5/32"	R-0.66	Not Recommended	
		1/4"	R-1.05		
		3/8"	R-1.57		
		7/16"	R-1.84		
		1/2"	R-2.09		
Sunburst Family	10 lb/cu ft			Not Recommended	
		SunBerber	3/8"		R-1.16
		Sunburst	15/32"		R-1.43
		BerberGuard	3/8"		R-1.25
		SunGuard	15/32"		R-1.50
Group Two					
	Density	Thickness	R-Value		
Fiber/Hair/Jute	6-8 lb/cu ft	1/4"	R-0.97	3rd Choice	
		3/8"	R-1.46		
		1/2"	R-1.94		
Waffle Rubber	25 lb/cu ft	1/4"	R-0.62	2nd Choice	
		3/8"	R-1.00		
		1/2"	R-1.33		
Slab Foam Rubber	33 lb/cu ft	1/4"	R-0.31	Best Choice	
		3/8"	R-0.47		
		1/2"	R-0.62		
NOTE: All R-Values are approximate. Check with product manufacturer for actual R-Values					