



Barnhardt Manufacturing Company  
 dba NCFI Polyurethanes  
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**InsulStar® 1.7 OPTIMAXX 11-033**  
**SPRAY POLYURETHANE FOAM INSULATION FACT SHEET**

R-Values*		
Thickness	R Value (°F-hr-ft <sup>2</sup> / Btu)	Moisture Vapor Perm
1.0"	7.1	1.7
2"	14	0.85
3"	20	0.56
3.5"	23	0.48
4.5"	30	0.38
5.5"	37	0.31
6"	40	0.28
7"	47	0.24
8"	53	0.21
9"	60	0.19
* Note: As with all insulating materials, the R-value will vary with age and use conditions.		

**DESCRIPTION:**

11-033 is a two component, self-adhering, seamless, closed cell spray applied polyurethane insulation system. This NCFI system has been formulated with HFO as the blowing agent. 11-033 is suitable for application on the interior of Type I, II, III, IV & V construction. It complies with ICC 1100 Standard for Spray-applied Polyurethane Foam Plastic Insulation. Refer to the 11-033 Technical Data Sheet for additional product performance and application guidelines or contact NCFI for additional information.

**READ THIS BEFORE YOU BUY**  
**WHAT YOU SHOULD KNOW ABOUT R-VALUES**

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, your fuel use patterns and family size, proper installation of your insulation, and how tightly your house is sealed against air leaks. If you buy too much insulation, it will cost you more than what you'll save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.

