



TruProtect™ is a patented product that brings it all together: EMI/RFI shielding, insulation, radiant barrier, sound reduction, fire retardant, mold and mildew retardant, hail damage reduction—all of this while being environmentally friendly.

<b>RF Shielding</b>			
Tested on TruProtect using conductive 5 mil Al tape front and back. All layers of Al in the panel are electrically connected. Testing performed by R.A. Mayes, Inc., Franktown, Colorado.	Frequency	1/2" TruProtect Attenuation (dB)	1" TruProtect Attenuation (dB)
	200 KHz, Magnetic Field	25	25
	200 KHz, Electrical Field	80	100
	1 MHz, Electrical Field	80	100
	10 MHz, Electrical Field	80	100
	80 MHz, Electrical Field	100	100
	400 MHz, Plane Wave	>90	100
	700 MHz, Plane Wave	100	100
	1 GHz, Plane Wave	100	100
10 GHz, Plane Wave	100	100	
<b>Hail Damage Protection</b>			
Tested according to UL 2218 Class 4 hail test.		Test summary indicates 50% less surface damage and 100% less structural damage in comparison to a roof without TruProtect.	
<b>Insulation</b>			
ASHRAE Handbook - data conversion		R-value of 6 for 1/2"; R-value of 12 for 1"	
ASTM C 1363-97: Thermal Performance Test		Thermal resistance Rs 1.61 (hr.ft.sq.)/Btu	
		R-value of 1.61 for 1/2"; R-value of 2.89 for 1"	
ASTM E903: Hemispherical Spectral Reflectance		81.5% Solar Reflectance	
ASTM E408-71: Total Emittance Test		.02 Emittance: .98 Reflectance	
<b>Fire Retardant</b>			
ASTM E84-04: Surface Burning Characteristics		Class A Fire Rating: Flame Spread Index = 25	
		Class A Smoke Rating: Smoke Developed Index = 20	
<b>Noise Reduction</b>			
ASTM E90: Sound Transmission Loss Test		Thickness 1/2": STC - 19; OITC - 15	
		Total assembly thickness 8": STC - 51; OITC - 35	
NRC: Noise Reduction Coefficient		0.6 for both 1/2" and 1" TruProtect thickness	
CAC: Ceiling Attenuation Class		38 for 1/2"; 43 for 1" TruProtect thickness	
<b>Mold, Mildew, and Fungus Retardant</b>			
ASTM D-3273-94: Resistance to Growth of Mold		TruProtect scored a perfect 10.	
<b>Installation</b>			
Sizes		Panels: 4' x 8' x 1/2" and 4' x 8' x 1" Ceiling tiles: 2' x 4' x 1/2"	
Weight		17 pounds per 4' x 8' x 1/2" sheet	
Busting strength		450 pound	
Equipment required		No special safety clothing or equipment required.	
<b>Environment Friendly</b>			
<p>TruProtect is made of 65-70% recycled products.</p> <p>The active ingredient in the V-769 Fire Retardant is a very stable aqueous organic solution. It is non-regulated by the DOT and carries an HMIS rating of 1-0-0. Carcinogenicity: None of the components in this material are listed by IARC, NTP, or OSHA. It is listed as a non-hazardous product.</p> <p>The V-816 Fungal Coating contains three unique fungal barriers representing less than 4% of the total formulation. The fungicide carries an FDA approval/compliance under FCA 21CFR 176.300. The antimicrobial agent is non-hazardous, has no toxic effects, no ecological concerns, and no hazardous decomposition. It is widely used in the medical field. The third fungal barrier is an aqueous pigment dispersion with no hazardous ingredients. The combination of all three barriers gives long-term protection.</p>			



MiLyn, LLC •  
 www.truprotect.com • 5507 10th Street •  
 806.281.9698 • Lubbock, TX 70416 •