



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

RF Shielding				
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" TruProtect Attenuation (dB)	1/2" TruProtect Attenuation (dB)	1/4" TruProtect Attenuation (dB)
	200 KHz, Magnetic Field	25	25	25
	200 KHz, Electrical Field	100	80	80
	1 MHz, Electrical Field	100	80	80
	10 MHz, Electrical Field	100	80	80
	80 MHz, Electrical Field	100	100	80
	400 MHz, Plane Wave	100	>90	60
	700 MHz, Plane Wave	100	100	60
	1 GHz, Plane Wave	100	100	60
10 GHz, Plane Wave	100	100	60	
Insulation				
ASTM C 1363-97: Thermal Performance Test	For 1" - R-value of 2.89 For 1/2" - R-value of 1.61 For 1/4" - R-value of 1			
ASTM E903: Hemispherical Spectral Reflectance	For 1/2" - 81.5% Solar Reflectance For 1/4" - 80.4% Solar Reflectance			
ASTM E408-71: Total Emittance Test	For 1/2" - .02 Emittance - .98 Reflectance For 1/4" - .03 Emittance - .97 Reflectance			
Hail Damage Protection				
Tested according to UL 2218 Class 4 hail test.	Test summary indicates 50% less surface damage and 100% less structural damage using 1/2" in comparison to a roof without TruProtect.			
Fire Retardant				
ASTM E84-04: Surface Burning Characteristics	Class A Fire Rating: Flame Spread Index = 25			
	Class A Smoke Rating: Smoke Developed Index = 20			
Noise Reduction				
ASTM E90: Sound Transmission Loss Test	For 1/2" - STC - 19; OITC - 15 For 1/4" - STC - 9; OITC - 7 For total assembly thickness 8": STC - 51; OITC - 35			
NRC: Noise Reduction Coefficient	For both 1" and 1/2" - 0.6			
CAC: Ceiling Attenuation Class	For 1" - 43 For 1/2" - 38			
Installation				
Sizes	TruProtect Panels: 4' x 8' x 1" — 4' x 8' x 1/2" — 4' x 8' x 1/4" OSB backed TruProtect: 4' x 8' x 1" — 4' x 8' x 1/2" — 4' x 8' x 1/4" Drywall backed TruProtect: 4' x 8' x 1" — 4' x 8' x 1/2" — 4' x 8' x 1/4" Ceiling tiles: 2' x 4' x 1/2" — 2' x 2' x 1/2"			
Weight	For 4' x 8' x 1/2" sheet - 17 pounds For 4' x 8' x 1/4" sheet - 8 pounds			
Busting strength	For 4' x 8' x 1/2" sheet - 450 pounds For 4' x 8' x 1/4" sheet - 290 pounds			
Equipment required	No special safety clothing or equipment required.			
Environment Friendly				
TruProtect is made of 95% recycled products. 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.				



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