



TECHNICAL DATA

EC5-FTP 5 MIL CONDUCTIVE ALUMINUM TAPE

TruProtect ECA part #11003 is a .005" aluminum foil backed by a 2 MIL electrically conductive acrylic transfer adhesive. The adhesive is designed for laminating to a variety of surfaces including painted surfaces, metals, and various plastic films. It features good chemical resistance and has moderate tack and high shear strength.

Typical Adhesive Performance Data:

Adhesive Thickness	2 Mils	
Liner Type	76# Polycoated	
Peel Adhesion (PSTC - 101/180°)	<u>Oz./Inch</u>	<u>N/25mm</u>
Initial to SS (20 min @ RT)	47	13.2
Holding Power (PSTC 107 Mod./178°)		
2.2 psi (1"x1"x1000g) @ RT		≥600 min.
Volume Resistivity (ASTM D2739-97 Modified)		0.06Ω•m
Observed Resistance (ASTM D2739-97 Modified)		5m Ω
Minimum Application Temperature		50 Degrees F
No Load Applied, Service Temperature Range		-40 to 250 Degrees F

Note: All information, recommendations, and suggestions contained herein shall only be used as a guide by the Purchaser and not for specification or any other purposes. This information also does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine suitability of all material purchased and must confirm adaptability and other characteristics by conducting their own tests. US Foils, Inc. shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the information.

Manufactured in Willoughby Ohio for TruProtect



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 material and can help with LEED facility points. We have supplied LEED documents all over the USA.				



www.truprotect.com • Red Star Manufacturing •
 in Texas 877.219.5616 • 5607 87th Place •
 outside Texas 608.837.9811 • Lubbock, Texas 79424 •