



INNOVATIVE ENERGY, INC.

*Your Single Source for Reflective Insulation Products*

**NEW**

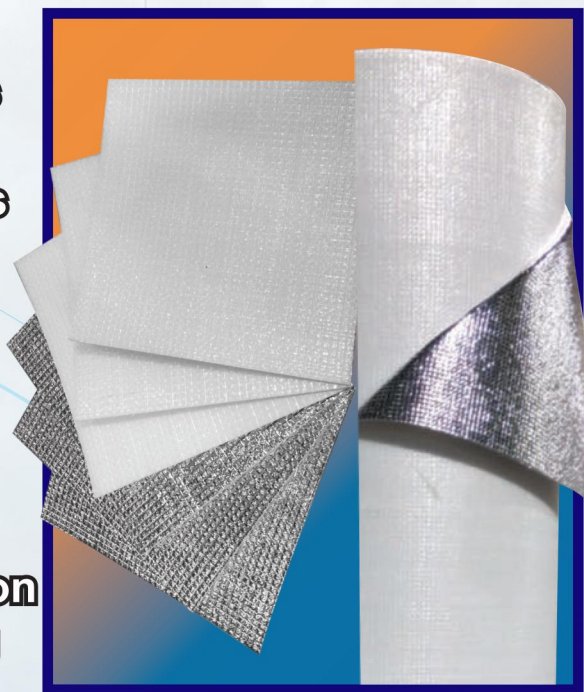
# ASTRO ARMOUR

## Uses

- Metal Buildings
- Post Frame Buildings
- Storage Buildings
- Agricultural Buildings
- Retrofit or New Construction

## Benefits

- Superior Strength
- Reduces Condensation
- Class 1/A Fire Rating
- 95% Reflectivity
- Contains UV Inhibitors
- Easy to Install & Maintain
- Birds Cannot Nest or Puncture



**[www.insul.net](http://www.insul.net)**

**800-776-3645**



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#### Innovative Energy Limited Warranty

Astro Barrier products manufactured by Pregis Corp. are warranted against defects in materials and workmanship for 5 years, in approved building or O.E.M. applications when installed in accordance with Innovative Energy's written instructions.

Liability under this warranty is limited to replacement of the product found to be defective and does not cover merchantability, fitness for specific application or any labor costs. Contact Innovative Energy for proper handling of any suspected defective material.

For details on General Terms and Conditions of this warranty and warranty information for applications other than mentioned above, contact Innovative Energy.

#### WARRANTY DISCLAIMERS AND LIMITATIONS ON BUILDING APPLICATIONS

- Innovative Energy products should always be stored in a clean dry environment with the rolls left in the poly bags they came in.
- Although Innovative Energy products have UV and thermal blockers built in to the structures, the warranty does not cover installation in open or exposed applications such as lean-to's and open sided animal confinement buildings.
- Applications where chemicals and off-gassing products are present may void the warranty.

PHYSICAL PROPERTIES	TEST METHODS	RESULTS
Emittance • Product • Metalized Film	ASTM C1371	0.057 0.033
Water Vapor Transmission (perm)	ASTM E96	0.050
Temperature and Humidity Resistance	ASTM C1258	PASS
Water Vapor Transmission (perm) (after C1258)	ASTM E96	0.059
Adhesive Performance - Bleeding and Delamination	ASTM C1224	PASS
Adhesive Performance - Pliability	ASTM C1224	PASS
Fungi resistance • White Side • Metal Side	ASTM C1338	PASS PASS
Surface Burning Characteristics • Flame Spread Index • Smoke Developed Index	ASTM E84	0 10
Tensile Strength* (tb/in <sup>2</sup> ) • Machine Direction • Cross Machine Direction	ASTM D882*	618.1 403.8
Penetration Resistance* • Penetration Load (lb) • Energy at Penetration (lb in.)	ASTM F1306*	10.2 1.37

## Edge Details



**SQUARE EDGE**



**STAPLE TAB**



**QUICK SEAM RELEASE TAPE**

## R-Values

### DOWNWARD

14.7

### UPWARD

6.1

### HORIZONTAL

8.0

NOT FOR OUTDOOR USE  
DO NOT EXPOSE TO TEMPERATURES IN EXCESS OF 180° F



**IMPORTANT WARNING**  
NEVER INSTALL OVER OR NEAR DEFECTIVE  
OR EXPOSED ELECTRICAL WIRING.



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Forest Stewardship Council  
The Mark of Responsible Forestry

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