



# ULTRA NT RADIANT BARRIER for SCIF'S

(1800 Series)



## rFOIL® Benefits:

- Minimum Shielding Effectiveness (100MHz – 10GHz):  
- 85 dB (Solid) - 67 dB (Perforated)
- Highly reflective radiant barrier surface
- Reflects 97% of Radiant Heat
- Thermal performance unaffected by moisture
- Unrolls and cuts easily
- Durable and flexible woven polyethylene base
- Increases sound attenuation for SCIF's
- Reduces heating and cooling costs
- Lowers energy usage and utility bills

rFOIL® Ultra NT Radiant Barrier is a heavy duty radiant barrier sheet made up of a single layer of woven polyethylene material bonded to and sandwiched between two highly reflective aluminum surfaces.

rFOIL® Ultra NT Radiant Barrier is designed to be used in Sensitive Compartmented Information Facilities (SCIF's). In addition to being a highly effective radiant barrier, the Ultra NT (Solid) is also an approved vapor barrier.

rFOIL® Ultra NT Radiant Barrier also helps reduce winter heating costs by helping existing fiber insulation hold heat and lower energy usage.

## rFOIL® Applications:

- Sensitive Compartmented Information Facilities (SCIF's)
- Secured Government Buildings





# ULTRANT RADIANT BARRIER for SCIF's

(1800 Series)

### Inner Layer of Woven Polyethylene

- Outstanding tear strength and puncture resistance
- Allows for a permanent bond of foil layers
- Allows firm hold when stapled

### Reflective Radiant Barrier Facings

- Reduces radiant heat gain and loss
- Redirects radiant heat energy back to living area
- Saves energy usage and lowers heating costs
- Extends life of heating and cooling systems
- Increases sound attenuation for SCIF's
- Improves effectiveness of fiber / mass insulations

### Lightweight, Flexible Materials

- Easy to unroll, cut to fit, and install
- Lightweight - 500 square feet weighs only 15 lbs.
- Easily cut to fit around obstructions

## PRODUCT SIZE

48" x 125'  
(Solid & Perforated Aluminum Surface)



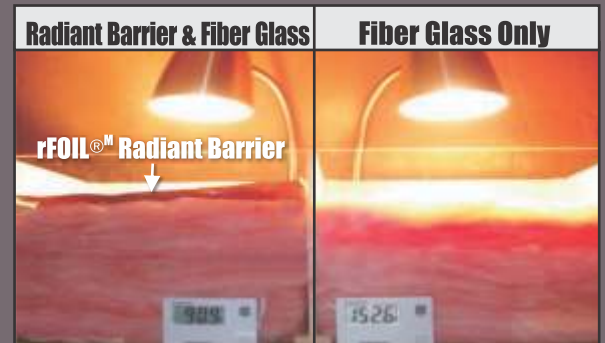
## PRODUCT SPECIFICATIONS

Physical Properties	Test	1800 (Solid)	1800 (Perforated)
EMISSION	ASTM C1371-04A	0.03	
REFLECTIVITY	—	0.97	
CORROSIVENESS	ASTM D3310-00	PASSES	
FIRE RATING	ASTM E84-09	CLASS 1 / CLASS A	
BLEEDING & DELAMINATION	ASTM C1313-05	No Bleeding or Delamination	
PLIABILITY	ASTM C1313-05	No Cracking or Delamination	
TEAR RESISTANCE	ASTM D2261	Length 14.93 / Width 15.13	
WATER VAPOR PERMEABILITY	ASTM E96-05	0.01 Perms	2.69 Perms
RESISTANCE TO FUNGI	ASTM C1338-08	PASSES	
SHIELDING EFFECTIVENESS	IEEE-299:1997 (Solid) IEEE-299:2006 (Perf)	85 dB	67 dB (100MHz - 10GHz)

## TESTING

The photo to the right shows the RIGHT side of the hot box which is insulated with fiberglass is at a much higher temperature than the LEFT box which is insulated with the rFOIL Radiant Barrier.

The rFOIL® Radiant Barrier is reflecting a tremendous amount of the radiant heat. The RIGHT side (which is not insulated with a layer of rFOIL®) shows 62 degrees hotter difference therefore illustrating how much heat it keeps out in the summer. In the winter it would be doing the same but only in reverse reflecting the heat back into the home. Having 2 layers help all 3 forms of heat gain/heat loss, conduction, convection and radiant heat.



Warranty, Specific Applications and Installation Guides can be found at [www.rfoil.com](http://www.rfoil.com)

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