

## ULTRA NT SCIF BARRIER

### PRODUCT DESCRIPTION



ULTRA NT SCIF Barrier is designed to be used in Sensitive Compartmented Information Facilities (SCIF's).

**ULTRA NT SCIF Barrier following the IEEE-299 2006 testing guidelines the ULTRA NT SCIF Barrier (SOLID) was measured to have a minimum shielding effectiveness of 91.7 dB between frequencies of 30 MHz to 18 GHz.**

ULTRA NT SCIF 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 foil surfaces.

In addition to being a highly effective radiant barrier, ULTRA NT SCIF Barrier solid is also an approved vapor barrier.

- ULTRA NT SCIF Barrier (SOLID)
- Standard roll Size: 48' wide x 125' long or 500 square foot per roll

### PRODUCT FEATURES

- Highly reflective radiant barrier surface
- Thermal performance unaffected by moisture
- Durable - yet flexible - woven polyethylene base
- Reflects 97% of Radiant Heat [with (1) adjacent airspace]
- Unrolls and cuts easily
- Increases sound attenuation for SCIF's

### APPLICATIONS

Sensitive Compartmented Information Facilities (SCIF)

PHYSICAL PROPERTIES	TEST	ALUMINUM FOIL / SCRIM / ALUMINUM FOIL
NOMINAL THICKNESS	--	0.012"
WEIGHT	--	155 g/m2 (0.52 oz./sq.)
TEMPERATURE RANGE	ASTM C411	-60°F to 190°F (-51oC to 88oC)
FIRE RATING	ASTM E84	CLASS 1 / CLASS A
TENSILE STRENGTH – MD	ASTM D882	54.0 lbs/inch
TENSILE STRENGTH – CD	ASTM D882	52.6 lbs/inch
PLIABILITY	CAN/CGSB 51.33	No Cracking
WATER VAPOR PERMEABILITY	ASTM E96	Solid - 0.02 Perms
RESISTANCE TO FUNGI AND BACTERIA	ASTM C1338	DOES NOT PROMOTE GROWTH
EMMISSIVITY	ASTM C1371	0.03

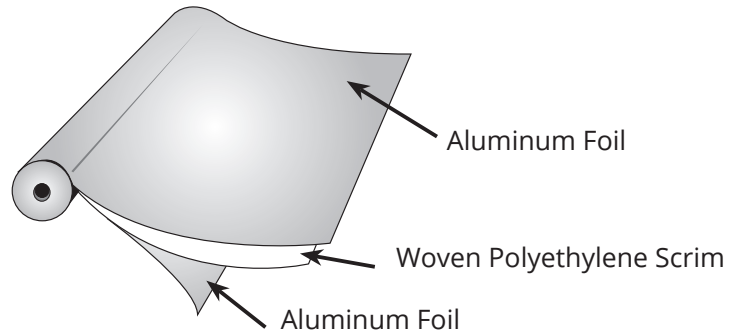
#### ULTRA NT SCIF BARRIER®

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ULTRA NT SCIF Barrier® following the IEEE-299 2006 testing guidelines the ULTRA NT SCIF Barrier (SOLID) was measured to have a minimum shielding effectiveness of 91.7 dB between frequencies of 30 MHz to 18 GHz.



#### SHIELDING EFFECTIVENESS SUMMARY MINIMUM RESULTS

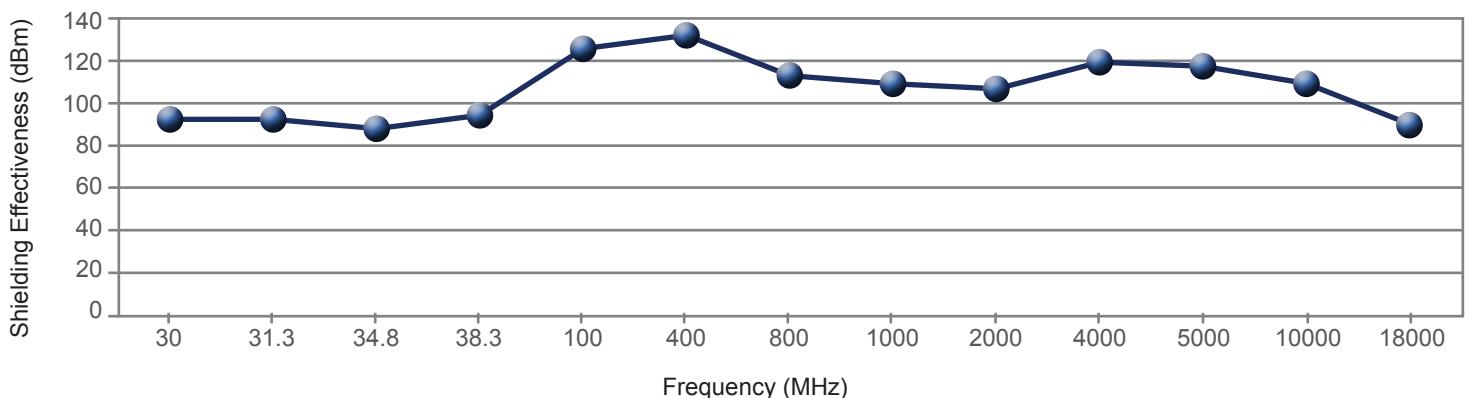
UTRA SCIF Barrier - SOLID has a minimum shielding effectiveness of 91.7 dB measured between the frequencies of 30 MHz and 18 GHz and is designed for use in Sensitive Compartmentalized Information Facilities or (SCIF's).

Frequency (MHz)	Minimum Shielding (dB)
30.00	95.87
31.30	96.23
34.80	91.7
38.30	95.25
100.00	124.25
400.00	132.71
800.00	114.42
1000.00	110.24
2000.00	106.8
4000.00	121.03
5000.00	119.44
10000.00	110.2
18000.00	92.21

On 11-30-2017 ULTRA NT SCIF Barrier was tested at MET Laboratories, Inc., 914 West Patapsco Avenue, Baltimore, MD. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology. Testing evaluated using IEEE-299 guidelines. Full test reports are available upon request, For additional information regarding our products or to receive a detailed price quote for your project, please call us at 1 (800) 216-1223.

#### JOB 96978 - PRODUCT: ULTRA SCIF BARRIER - SOLID

Minimum Shielding Effectiveness of 91.7 dB



## ULTRA NT SCIF BARRIER

### INSTALLATION GUIDELINES

**The Architectural Specifications for any particular job shall override the information presented on this Technical Data Sheet with regards to the appropriate products to use and the appropriate installation method to use for that particular job.**

The following installation guidelines are for informational purposes only and ***do not supersede*** the Architectural Specifications. The Architectural Specifications for any particular job shall override the information presented on this Installation Sheet with regards to the appropriate products to use and the appropriate installation method to use for that particular job.

- 1 Unroll the ULTRA NT SCIF Barrier® and cut it to the appropriate length to cover all walls, ceilings and floors of the room or building that you want shielded from RF transmission, per the Architectural Specifications. Manufacturer recommends cutting the SCIF barrier 12" longer than the length of the wall, ceiling or floor to be covered to allow SCIF Barrier to wrap around corners.
- 2 ULTRA NT SCIF Barrier® may be attached to wood using staples (every 6"-10"), tape, general purpose construction adhesive, or spray on contact adhesive per the Architectural Specifications.
- 3 ULTRA NT SCIF Barrier® may be attached to steel studs using tape, general purpose construction adhesive, or spray on contact adhesive per the Architectural Specifications.
- 4 ULTRA NT SCIF Barrier® may be attached to concrete using a general purpose construction adhesive or spray on contact adhesive per the Architectural Specifications.
- 5 ULTRA NT SCIF Barrier® may be attached to gypsum board using staples (every 6"-10"), general purpose construction adhesive, or spray on contact adhesive per the Architectural Specifications.
- 6 Specifications. When installing a second layer of gypsum board on top of ULTRA NT SCIF Barrier, manufacturer recommends using black phosphate fine thread drywall screws for panel installation, unless otherwise specified in the Architectural Specifications.
- 7 ULTRA NT SCIF Barrier® joints may be required to be butted together, overlapped, folded, and/or taped per the Architectural Specifications. manufacturer recommends overlapping all joints by 6" and taping all seams with the tape size and tape type per the Architectural Specifications.
- 8 When you reach the top of a wall, Manufacturer recommends extending the ULTRA NT SCIF Barrier® so that it wraps around the joint and onto the ceiling for 6".
- 9 When you reach the bottom of a wall, manufacturer recommends extending the ULTRA NT SCIF Barrier® so that it wraps around the joint and onto the floor for 6".
- 10 ULTRA NT SCIF Barrier® material may or may not be installed on the ceiling and floor per the Architectural Specifications, to complete the job.
- 11 If required, ground the ULTRA NT SCIF Barrier® enclosure per the Architectural Specifications. Grounding from any single point, separated from the electrical grounding for the building, has been shown to have a positive effect on ULTRA NT SCIF Barrier® enclosure performance.

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