

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 90.13 dB between frequencies of 31.3 MHz to 10 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) Part number 1800-48-125S
- 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®

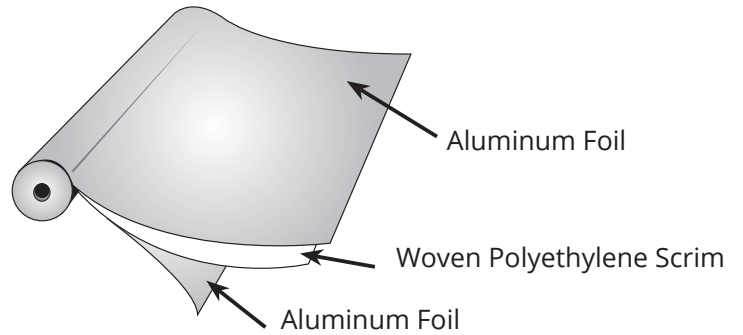
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ULTRA NT SCIF BARRIER® (SOLID)
90.13 dB MINIMUM SHIELDING EFFECTIVENESS



ELECTROMAGNETIC COMPATIBILITY SHIELDING EFFECTIVENESS TEST REPORT

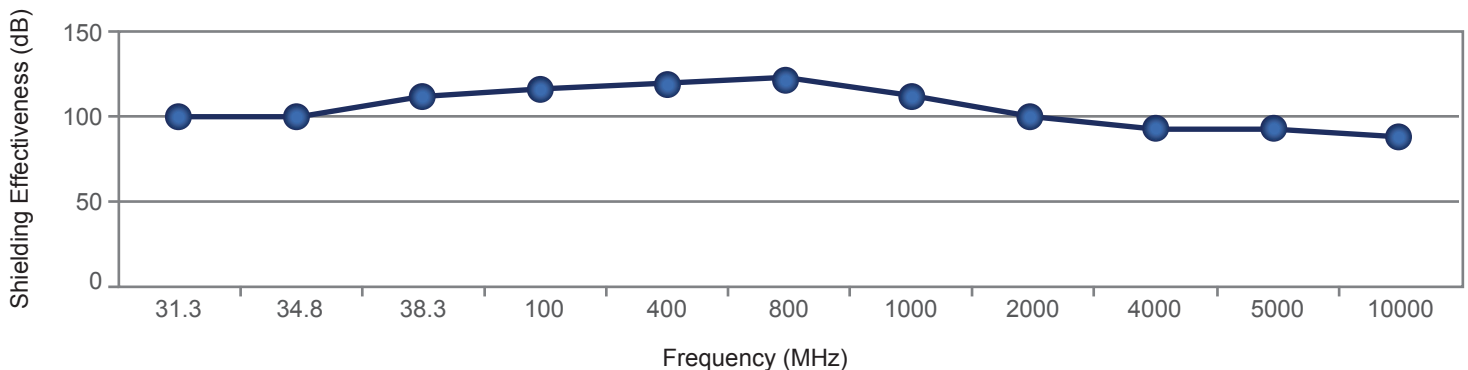
90.13 dB Minimum Shielding Effectiveness

Frequency (MHz)	Minimum Shielding (dB)
31.3	97.37
34.8	97.67
38.3	106.83
100	110.67
400	115.2
800	115.5
1000	105.3
2000	98.87
4000	94.03
5000	94.33
10000	90.13

Table 11. Shielding Effectiveness Test Result, 90.13 db - SE Minimum (31.3 MHz - 10,000 MHz)

ULTRA NT SCIF BARRIER® - SOLID

ULTRA NT SCIF BARRIER® Shielding Effectiveness Summary - Minimum Shielding Effectiveness (100 MHz - 10 GHz) : 90.13 dB



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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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