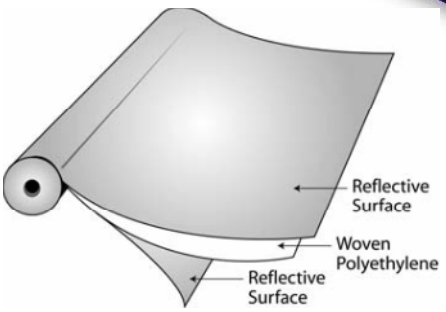
TVM ULTRA NT SCIF BARRIER

Product Description:

TVM's 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 surfaces. Ultra NT is designed to be used in Sensitive Compartmented Information Facilities (SCIF's). In addition to being a highly effective radiant barrier, Ultra NT solid is also an approved vapor barrier.



Stock Sizes Available (Rolls):

Size	48" X 125' (solid)	48" X 125' (perforated)
Part No.	1800-48-125S	1800-48-125P

Aluminum Foil Tape:

Type	**Electrically Conductive Venture 1688 Tape**		**Electrically Conductive 3M 1170 Tape**		**TVM Aluminum Foil Tape**	
Size	1" X 54'	2" X 54'	1" X 54'	2" X 54'	2" X 150'	3" X 150'
Part No.	15188	15288	3M 1170-1	3M 1170-2	15212F	15213F

*** Tape used should be specified in Architectural Spec's**

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/m$_2$ (0.52 oz/sq.ft.)
TEMPERATURE RANGE	ASTM C411	-60°F to 190°F (-51°C to 88°C)
FIRE RATING	ASTM E84	CLASS 2 / CLASS B
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 VAPOUR PERMEABILITY	ASTM E96	Solid - 0.02 Perms Perforated – 17 Perms
RESISTANCE TO FUNGI & BACTERIA	ASTM C1338	DOES NOT PROMOTE GROWTH
EMMISSIVITY	ASTM C1371	0.03

TVM BUILDING PRODUCTS

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Building Sealing & Energy Conservation

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Application Notes:

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.

Shielding Effectiveness – Test Standard IEEE-299 / ASTM D4935

*Test results for Ultra NT SCIF Barrier 1800-48-125S solid product only.

FREQUENCY (MHz)	Horizontal Calibration Signal (watts)	Horizontal Signal Measurement (watts)	Horizontal Shielded Effectiveness
100	51.4 nanowatts	42 picowatts	49.7 %
400	2.1 microwatts	6.3 picowatts	68.8 %
800	2.1 microwatts	1.8 picowatts	75.6 %
1,000	2.0 microwatts	620 femtowatts	81.3 %
5,000	2.0 microwatts	75 picowatts	55.3 %
10,000	20 microwatts	167 picowatts	56.4 %

FREQUENCY (MHz)	Vertical Calibration Signal (watts)	Vertical Signal Measurement (watts)	Vertical Shielded Effectiveness
100	51.4 nanowatts	46 picowatts	47.8 %
400	2.1 microwatts	1.7 picowatts	75.8 %
800	2.0 microwatts	2.7 picowatts	73.4 %
1,000	2.0 microwatts	3.0 picowatts	72.9 %
5,000	21 microwatts	25 picowatts	61.4 %
10,000	21 microwatts	240 picowatts	54.7 %