



RF Shield

Specification Sheet

Fi-Foil's **RF Shield** is a multi-layered specialty barrier with security shielding to block electromagnetic (EM) and radio frequency (RF) interference in order to protect highly sensitive information. Designed for **Sensitive Compartmented Information Facility (SCIF)** rooms, areas where a TEMPEST enclosure is required or anywhere frequency blocking is desired. RF Shield has two (2) outer layers of 99% pure aluminum foil with an inner layer of fiberglass reinforcing and kraft paper, made in the USA.

RF Shield increases sound attenuation and meets or exceeds minimum requirements for shielding effectiveness at 378 frequencies as tested by an accredited NSA Approved TEMPEST facility. RF Shield provides high performance frequency shielding with an average RF Attenuation of 73 dB.

SCIF Barrier

Product Information

Width of Roll	51"
Lineal Footage	118'
Coverage (sqft)	500
Weight (lbs)	14

Test Data

	SOLID	PERFORATED
ASTM F3057 RF Attenuation Average	73 dB	73 dB
ASTM E408 Thermal Emissivity	0.03	0.03
ASTM E96 Water Vapor Permeance	< 1.0	> 10
ASTM C665 Mold Resistance	No Growth	No Growth
FLAMMABILITY CLASS A		
ASTM E84 Flame Spread	15	15
ASTM E84 Smoke Developed	5	5
STRENGTH		
ASTM D774 Bursting Strength	40 psi	35 psi
ASTM C1136 Puncture Resistance	50 beach units	45 beach units
ASTM C1136 Tensile Strength	50 lbs/in width MD	45 lbs/in width MD
	25 lbs/in width XD	25 lbs/in width XD
OTHER		
Reinforcing Tri-Directional Fiberglass	2/in MD, 3/in XD	2/in MD; 3/in XD
Caliper/Thickness Micrometer	0.009 in	0.009 in
Accelerated Aging 30 Days @ 95% RH, 120°F (49°C)	No Corrosion	No Corrosion
	No Delamination	No Delamination

Compliance & Approvals

- Evaluated in accordance with IEEE 299 Standard Method for Measuring Effectiveness of Electromagnetic Enclosures
- Third Party Verification: IEEE 299/ASTM F3057-16 Shielding Effectiveness Test Report, Advanced Programs Inc., Cyber Assurance Services, Columbia, MD; NSA Approved TEMPEST facility
- Meets ASTM F3057-16 Electromagnetic Shielding Effectiveness for Glazings
- Meets ASTM D4935-99 Electromagnetic Shielding Effectiveness for Planar Materials
- Meets or exceeds NSA minimum requirements with RF Attenuation

Flammability - Class A

- Meets ASTM E84 Flammability with Flame Spread 15, Smoke Developed 5

For additional product information and installation instructions visit:

Fifoil.com/rfshield

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