



ELF TruProtect RF Shielded Panels - 4' x 8' x 1/2"

TruProtect™ is a patented product with multiple uses: EMI/RFI Shielding; fire retardant; noise reduction; insulation; radiant barrier; protection from hail damage; mold, mildew, and fungus retardant. **It is strong, durable, and resilient!**

RF Shielding

- ✓ RF Shielded Panel System – Shielding Effectiveness Chart

ELF TruProtect RF Shielded Panels - 4' x 8' x 1/2"	
Panels joined using 5 mil Al tape with conductive adhesive	
Frequency	Attenuation (dB)
10 Hz, Magnetic Field	2
10 Hz, Electric Field	140
100 Hz, Magnetic Field	18
100 Hz, Electric Field	120
1 KHz, Magnetic Field	35
1 KHz, Electric Field	100
200 KHz, Magnetic Field	70
200 KHz, Electrical Field	80
1 MHz, Electrical Field	80
10 MHz, Electrical Field	80
400 MHz, Plane Wave	80
700 MHz, Plane Wave	85
1 GHz, Plane Wave	90
10 GHz Plane Wave	100

- ✓ Made in convenient 4' x 8' x 1/2" panels, weighing only 18 lbs.
- ✓ Applies directly to outer wall using construction adhesive
- ✓ 15 mils and three layers of Aluminum foil in the 1/2" thick panels
- ✓ RF shield panels are joined together using 5 mil Aluminum tape with conductive adhesive
- ✓ Saves time and labor over conventional shielding and even foil

Fire Retardant

- ✓ Fire resistant; holds an ASTM E84-04 **Class A Fire and Smoke Rating**

Insulation

- ✓ Helps reduce the heat level in attics enabling heating and cooling units to work less; savings in

- ✓ When used in conjunction with fiberglass insulation, TruProtect increases the fiberglass R-factor by about 98 % as shown in ASTM C 1363-97 and ASTM E903 tests
- ✓ Multiplies the R-factor of existing insulation. When used with R-19 fiberglass, TruProtect accentuated the true R-factor to an R-49.5, and an R-25 is raised to an R-61.38
- ✓ Stops heat-to-cold transfer by 97.3%
- ✓ Reflects 98% of applied heat as shown in ASTM E903
- ✓ One architect's description of TruProtect was, "It's a radiant barrier on steroids."
- ✓ Tested and proven to be 100% thermal barrier

Noise Reduction

- ✓ Natural sound barrier; STC of 19 (OITC of 15) for ½" material by itself.
- ✓ Natural sound barrier; highest possible STC number for ½" material and a STC of 51 in a normally constructed 8.0" wall
- ✓ Reduces noise pollution

Earth Friendly

- ✓ Composed of 98% recycled materials and is 100% recyclable
- ✓ Enables owner to use 40% less resources (electricity, natural gas, coal) to heat and cool.

Installation

- ✓ Made in convenient 4' x 8' x 1/2" sheets
- ✓ Weighs 17 pounds per sheet
- ✓ RF System saves time and money
- ✓ Costs less than fiberglass insulation
- ✓ Easily installed with no environmental or worker problems
- ✓ Can be made with adhesive backing so no fasteners are needed
- ✓ Reflects 98% of the applied heat as shown in ASTM test
- ✓ Has a 450 pound busting strength

Applications

- ✓ Government, Military and Commercial Secure Facilities
- ✓ Medical Laboratories and Examination Rooms
- ✓ EMC, RF & Wireless Test Laboratories
- ✓ RF Shielded Test Chamber
- ✓ Secure Conference Rooms
- ✓ SCIF Facilities
- ✓ Recording Studios
- ✓ Anechoic Chambers
- ✓ Computer Rooms
- ✓ Office Rooms
- ✓ Secure Buildings

Conforms to or exceeds all applicable IBC codes. In addition to the mentioned tests, methods, and results, the material is in agreement with IBC Sections 1504.6 (impact resistance), Sound Transmission Section 1206, Fire Partitions Section 708, and Fire Resistance Section 705.



TruProtect
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