



## EMI-SHIELD AL10

### EMI Foil Shielding (PSA is NOT Available)

**EMI-SHIELD AL10** is a 0.010" (10 mil) (0.254mm) thick aluminum foil for use as an EMI/RFI shield against electromagnetic interference. The foil is easy to work with and offers good shielding effectiveness across a wide range of frequencies, shielding against unwanted signals in or out of rooms and buildings.

**EMI-SHIELD AL10** may be used to form shielded enclosures of almost any size or shape, with primary use in construction with low-cost shielded rooms, shielded anechoic chambers and other shielded test rooms.

**EMI-SHIELD AL10** is specifically designed to be placed in a wall system or on the surface floor, usually glued directly to the concrete floor with a substrate placed over the top. The rolls are butt jointed and taped with 2 layers 5 mil Aluminum or 1 layer of 5 mil copper, 4" electrically conductive tape (recommended). For 4' x 8' panels see the AL20 product.

TYPICAL SHIELDING EFFECTIVENESS AL10 (10 mil) (Insertion Loss per MIL STD 285)		
Electrically Conductive Tape	2 Layers 5 mil Aluminum or 1 Layer 5 mil Copper	1 Layer 5 mil Aluminum
FREQUENCY	dB	dB
10 KHz, Magnetic Field	≥ 25	12
100 KHz, Magnetic Field	≥ 45	20
200 KHz, Magnetic Field	≥ 50	25
200 KHz, Electrical Field	≥ 100	≥80
1 MHz, Electrical Field	≥ 100	≥80
10 MHz, Electrical Field	≥ 100	≥80
400 MHz, Plane Wave	≥ 100	≥60
1 GHz Plane Wave	≥ 100	≥60
10 GHz Plane Wave	≥ 100	≥60

**EMI-SHIELD AL10** is typically applied with contact glue on the floor. Other than normal cleanliness, and dust free, no special preparation is required. The foil may be screwed, stapled or glued in-place, depending on the wall or floor type to be covered.

**E-SHIELD** products should be butt jointed, with the seams taped with 3", 4" or 6" tape to avoid RF leakage. For maximum effectiveness, seams should be taped with electrically conductive adhesive foil tape.

#### ORDERING INFORMATION

**EMI-SHIELD AL10** is available in standard widths of 24" and lengths of 100 feet. Other dimensions available on special order.



**Wear correct gloves when installing the foil, the edge is like a razor blade**

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