



## EMI-SHIELD AL20

### EMI Foil 4' x 8' Sheet Shielding (PSA is NOT Available)

**EMI-SHIELD AL20** is a 0.020" (20 mil) (0.5mm) thick, type 1100, 99% pure aluminum foil sheets for use as an EMI/RFI shield against electromagnetic interference. The foil sheets are 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 AL20** 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 AL20** is specifically designed to be placed on the rough surface floor, usually glued directly to the concrete floor with or without a substrate placed over the top. The sheets are butt jointed and taped with 1 layer or 2 layers 5 mil, 4" electrically conductive tape. One layer of 5 mil aluminum tape is 60 dB, 2 layers of 5 mil aluminum or one layer of 5 mil copper tape is 100 dB (see shielding performance chart below).

TYPICAL SHIELDING EFFECTIVENESS AL20 (20 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 AL20** is applied like sheet or panel floor covering, covering all floor surfaces. Other than normal cleanliness, and dust free, no special preparation is required. The foil sheets are typically glued to the floor using a contact adhesive (3M™ Scotch-Weld™ 1357 Adhesives). The AL20 allows you to apply your final flooring directly on top of the AL20 sheets.

**E-SHIELD** products should be butt jointed, with the seams taped with 4" electrically conductive tape to avoid RF leakage.

**ORDERING INFORMATION** **EMI-SHIELD AL20** is available in the standard size of 0.020" thick by 48" wide and 96" long. Weight: 9.5 lbs per sheet.



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