



**TECHNICAL DATA**

**Xalon FP Aluminum Floor Panel**

**Xalon FP** is a 0.020" (20 mil) (0.5mm) thick, 99% pure aluminum panel for use as an EMI/RFI shield against electromagnetic interference. The panels 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.

**Xalon FP** 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 RF shielded test rooms.

**Xalon FP** 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 of 5 mil, 4" wide, electrically conductive adhesive, aluminum or copper tape (see shielding performance chart below).

Xalon FP Typical Shielding Effectiveness (Insertion Loss per IEEE-299 : 2006)			
Installation	As Installed Butt Jointed & Taped with 4" EC Tape		As Installed 1" Overlap, Screwed & Taped with 4" EC Tape
Install Locations	Floor, Wall, Ceiling	Floor, Wall, Ceiling	Walls, Ceiling
Electrically Conductive Seaming Tape	1 Layer 5 mil Copper	1 Layer 5 mil Aluminum	1 Layer 5 mil Aluminum
FREQUENCY	SE (dB)	SE (dB)	SE (dB)
10 KHz, Magnetic Field	45	45	45
100 KHz, Magnetic Field	65	65	65
200 KHz, Magnetic Field	65	65	65
10 KHz, Electric Field	≥95	≥90	≥100
100 KHz, Electrical Field	≥95	≥90	≥100
200 KHz, Electrical Field	≥95	≥90	≥100
1 MHz, Electrical Field	≥95	≥90	≥100
10 MHz, Electrical Field	≥100	≥95	≥100
400 MHz, Plane Wave	≥100	≥95	≥100
1 GHz Plane Wave	≥92	≥90	≥100
10 GHz Plane Wave	≥90	≥85	≥100
18 GHz Plane Wave	≥88	≥85	≥100
40 GHz Plane Wave	≥75	≥75	≥100