



## Xalon RF X5000 – RF / EMI Shielding Solutions

### **Part I: General**

#### **1.1 Work Included:**

The work consists of furnishing all labor, materials, accessories and equipment necessary to cover all areas shown on the drawings and specified herein with Xalon RF/EMI Panels.

#### **1.2 Delivery and Storage:**

Store this product in unopened cartons in a clean, cool, dry interior space. Cartons and product must be protected against marring, water, dirt or damage during delivery and storage.

### **Part II: Product**

#### **2.1 Product and Manufacturer:**

Xalon RF Shielding System:  
 21100 Morewood Pkwy  
 Rocky River, OH Ohio 44116  
 Phone: 1-833-XalonRF (833) 925-6673  
 Website: [www.xalonrf.com](http://www.xalonrf.com)  
 Email: [sales@xalonrf.com](mailto:sales@xalonrf.com)

**2.1.1 Geometric Shape:** Custom, Rectangular

#### **2.1.2 Size & Thickness:**

Max size (4' x 8'), Thickness (1/2", 1" or 2")

**2.1.3 Core:** Fiberglass (6-7#)

#### **2.1.4 Surface Finish:**

Aluminum Foil, Pebble Acoustical Face, Anti-bacterial Mold Interwoven Polyester Textile, Copper

**2.1.5 Color:** Silver, White, Natural White, Copper

**2.1.6 Application:** Interior, Exterior

**2.1.6a Warranty:** 1 Year Standard

**2.1.7 Edge Construction:** Laminated Aluminum Foil (5 mil) Conductive Adhesive (2 mil) Tape

**2.1.7a Edge Shape:** Natural

#### **2.1.8 Acoustical Performance:**

NRC of Anechoic Termination – 1.00  
 NRC of Fabric in front of Anechoic Termination – 1.00

#### **2.1.9 Incombustibility:**

Class A per ASTM E84 – Smoke Development = 0, Flame Spread = 0

#### **2.1.10 Shielding Effectiveness:**

Tested per IEEE-299: 2006

Frequency	Attenuation (dB)
10 KHz, Magnetic Field	40
100KHz, Magnetic Field	60
10 KHz, Electric Field	86
200 KHz, Electric Field	90
10 MHz, Electrical Field	92
100 MHz, Plane Wave	92
400 MHz, Plane Wave	92
1 GHz, Microwave	92
10 GHz, Microwave	90
18 GHz, Microwave	85
40 GHz, Microwave	80

#### **2.1.11 Joint Sealing Tape:**

Aluminum (5 mil) Conductive Adhesive (2 mil) Tape

**2.1.12 R Value:** (1/2 " - 2.24, 1" - 4.4, 2" - 8.9)

### **Part III: Execution**

#### **3.1 Installation**

##### **3.1.1 Xalon Shielding Panels:**

Shall be located and spaced as detailed on reflected ceiling plans and/or detailed on the interior elevation drawings and as indicated on room finish schedule.

##### **3.1.2 Suspension Provision:**

Standard 15/16" Ceiling Grid, Screws, Adhesive, PVC track, See Xalon drawings for more information

##### **3.1.3 Attachment Method:**

Standard 15/16" Ceiling Grid, Grid Clips, Screws, Adhesive, PVC track, See Xalon drawings for more information

**3.1.4 Workmanship:** The panel system shall be installed only by an approved contractor.

All work shall be completed in a workman like manner. All panels shall be properly installed and left in a clean, sanitary condition. Contractor shall remove and dispose of shipping containers and debris.