**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
Email: 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

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Attenuation (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 KHz, Magnetic Field</td>
<td>30</td>
</tr>
<tr>
<td>100 KHz, Magnetic Field</td>
<td>50</td>
</tr>
<tr>
<td>200 KHz, Electric Field</td>
<td>70</td>
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<tr>
<td>1 MHz, Electrical Field</td>
<td>80</td>
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<tr>
<td>10 MHz, Electrical Field</td>
<td>100</td>
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<tr>
<td>100 MHz, Plane Wave</td>
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<tr>
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<tr>
<td>1 GHz, Microwave</td>
<td>85</td>
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<tr>
<td>18 GHz, Microwave</td>
<td>75</td>
</tr>
<tr>
<td>40 GHz, Microwave</td>
<td>75</td>
</tr>
</tbody>
</table>

**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.