EMI / FRI shielded tent  A mobile low cost Faraday cage solution

EMI / RFI portable shielded tents

The shielded Faraday tents and are compact and manufactured from a very strong highly conductive light weight textile. They are typically used for EMC experiments, RF measurements, mobile military activities, forensic activities and personal protection. Faraday tents offer mobile solutions for only a fraction of the price compared to conventional Faraday cages.

Access to the tent
The typical entrance of a tent is a split door with a magnetic closing system. The closure with magnetic strips ensures super electrical contact. For large tents, it is possible to turn a whole side into a door. If necessary, the entrance can also be equipped with conductive Velcro strips.

Visual contact with your experiment
To keep visual contact with your experiment, we can provide the Faraday tent with windows made of two layers of very fine conductive wire mesh.

Applications
Permanent or temporary EMI/RFI shielding for:
- Forensics
- Judicial activities on location
- Field military
- Embassy use
- Secure communication (TEMPEST)
- Radar jammer protection
- Electromagnetic allergy / electrosmog
- Pre-compliance testing
- Electromagnetic reverberation chamber (RVC), i.e. a mode-stirred chamber (MSC)

Standard sizes available

<table>
<thead>
<tr>
<th>Shape</th>
<th>Standard sizes available</th>
<th>Outside dimensions (m)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>pyramid</td>
<td>small 1x1x2.3</td>
<td>P-100x100x230</td>
<td></td>
</tr>
<tr>
<td></td>
<td>medium 2x2x3</td>
<td>P-200x200x230</td>
<td></td>
</tr>
<tr>
<td></td>
<td>large 3x3x2.3</td>
<td>P-300x300x230</td>
<td></td>
</tr>
<tr>
<td>square</td>
<td>small 2x2x2.3</td>
<td>S-200x200x230</td>
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<tr>
<td></td>
<td>medium 2.5x2.5x2.3</td>
<td>S-250x250x230</td>
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<td></td>
<td>large 3x3x2.3</td>
<td>S-300x300x230</td>
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<tr>
<td>Rectangular</td>
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<td>R-200x250x230</td>
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<tr>
<td></td>
<td>medium 2x3x2.3</td>
<td>R-200x300x230</td>
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</tr>
<tr>
<td></td>
<td>large 2.5x3x2.3</td>
<td>R-250x300x230</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X large 3x2x2.3</td>
<td>R-300x200x230</td>
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<td></td>
<td>XX large 5x3x4</td>
<td>R-500x300x400</td>
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</tbody>
</table>

Most standard sizes are in stock. Any other size on request within 1 week. Please contact us (info@hollandshielding.com) for the delivery time.
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Setting up the portable Faraday tent

Setting up the Faraday tent is very easy and time efficient. The tents are delivered with multiple ropes for easy mounting to the ceiling, or optionally with a freestanding frame.

In a double layer Faraday tent it’s easy to connect/suspend the inner Faraday tent to the outer tent with plastic locks. When travelling, the tent can also be folded up to a small sized package.

Options
• Aluminium or reinforced mounting frame
• Shielded ventilation
• Waveguide for data transfer
• Cable sleeve for entry of filter cables
• Woven mesh ventilation panels
• Lighting for inside the tent
• Shielded signal- and power line filters (see picture below)
• Optionally supplied with a rigid reinforced floor and door for heavy load
• Many other options on request

Advantages
• Easy to mount
• Light weight and easy to move (mobile laboratory)
• Any size possible
• Single layer tent: 40-60 dB attenuation from 30 MHz up to 15 GHz
• Double layer tent: 70-90 dB attenuation from 30 MHz up to 22.5 GHz

Shielding performance of Faraday tent

![Shielding performance graph](image-url)