

EMI/RFI-shielded Faraday tent



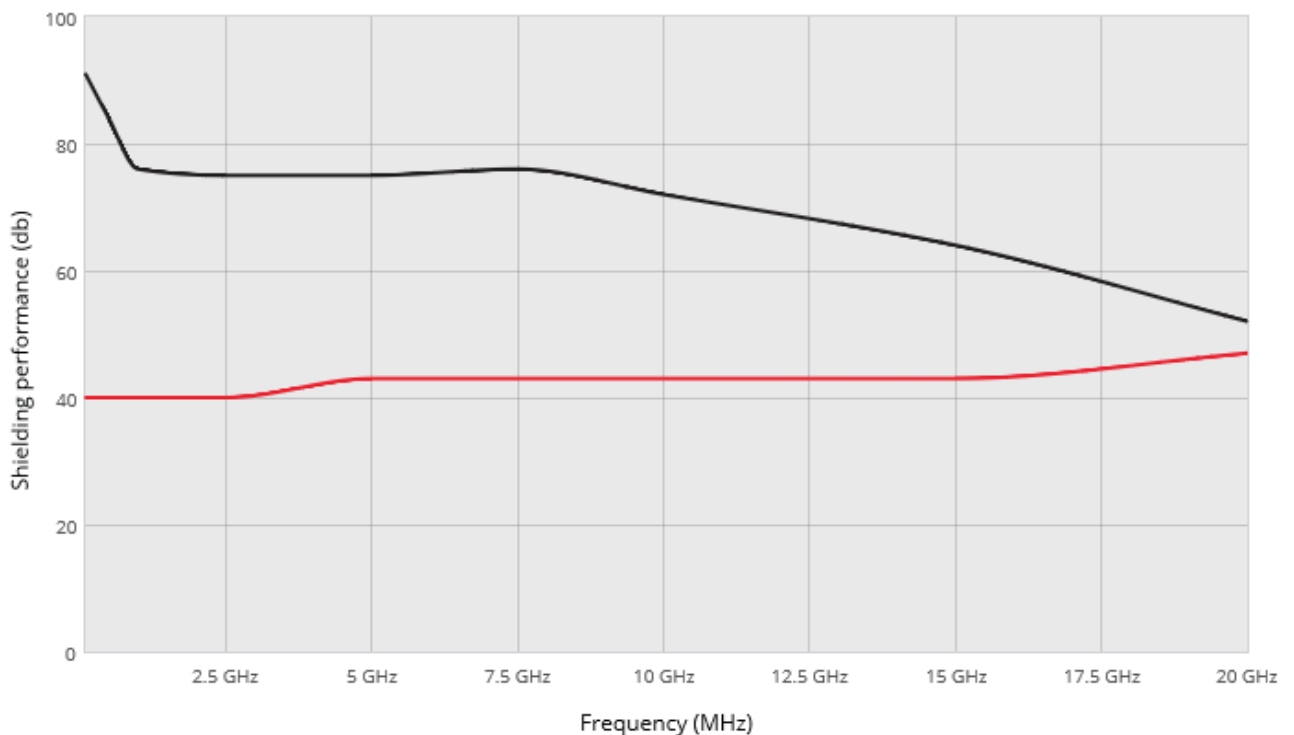
EMI/RFI-shielded Faraday tent

Cost-effective instant Faraday tent

The EMI/RFI-shielded Faraday tents are made of highly conductive, lightweight, and ultra-strong textile. By default the Faraday tents are delivered with multiple ropes so they can be easily attached to a ceiling, or they can come with a self-standing frame.

Typical applications are EMC experiments, RF measurements, mobile military or forensic activities, and personal protection in the field. Faraday tents offer a mobile solution for only a fraction of the cost compared to a conventional Faraday cage.

Shielding performance (dB)



■ Single layer

■ Double layer

Please note : These values are measured under laboratory conditions. Results may vary in other situations; please

EMI/RFI-shielded Faraday tent

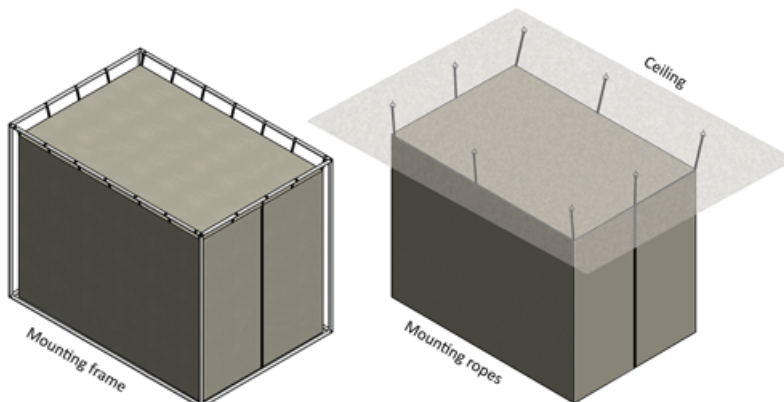
Applications

- Computer and cell-phone forensics
- Military field or embassy use
- Secure or TEMPEST communication
- Radar-jammer protection
- Electromagnetic allergy / electro-smog
- Pre-compliance testing
- Temporary EMI shielding
- Reverberation chamber (RVC)
- Mode-stirred chamber (MSC)

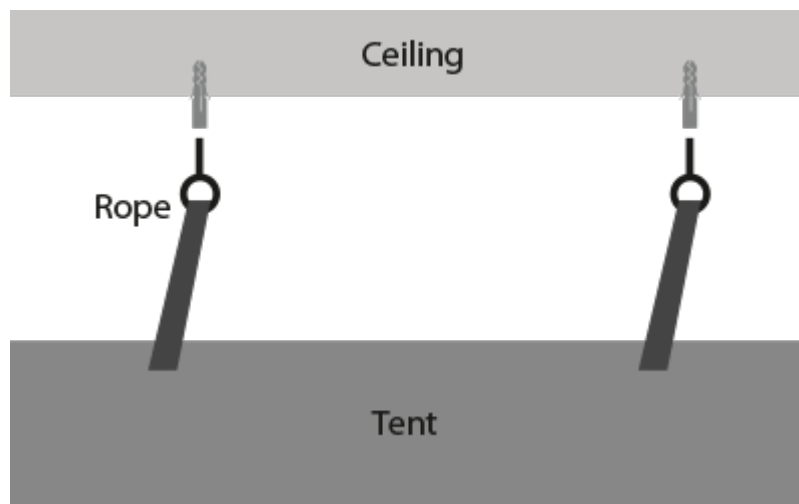
Advantages

- Easy to mount and move, mobile laboratory
- Any size possible
- Optionally supplied with a rigid reinforced floor
- Single-layer Faraday tent: 40-60 dB up to 22.5 GHz
- Double-layer Faraday tent: 70-90 dB up to 22.5 GHz

Mounting options



Our Faraday tents can optionally be supplied with a **mounting frame** so they can easily be set up as a stand-alone structure almost anywhere, but they are usually supplied with **mounting ropes** to attach to a ceiling. Mounting ropes are generally used when the Faraday tent is installed inside a building in a permanent location.



Adjustable rope to ceiling

EMI/RFI-shielded Faraday tent

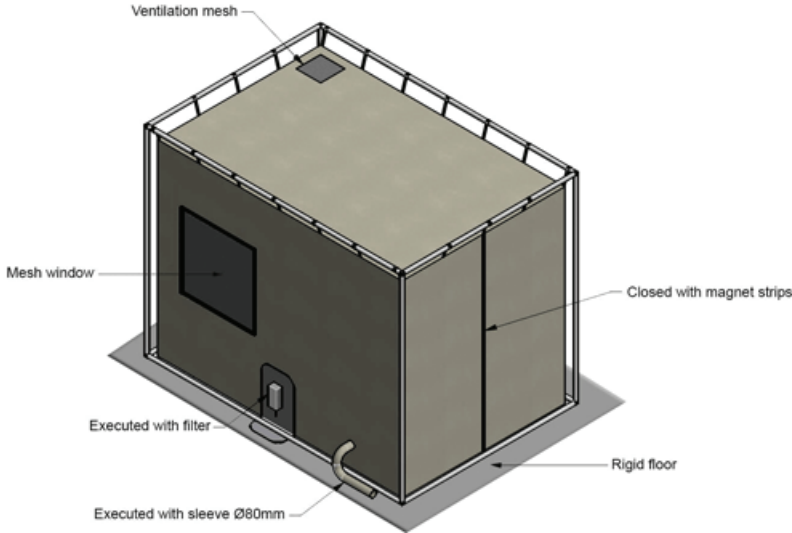


Illustration of assembling the shielded tent on the ceiling



Adjustable rope to frame

Additions (on request)

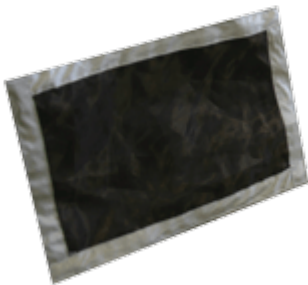


EMI/RFI-shielded Faraday tent

Please note: when you want to enter the tent with heavy equipment like vehicles, planes or tanks you need a rigid floor and a tent with magnetic strips to the bottom so that the entrance of the tent can be fully opened.

As illustrated in the technical drawing above, our Faraday tents can be supplied with the following options:

- Rigid floor for heavy load (metal floor)
- Solid floor for medium load (wood)
- Shielded ventilation mesh / AC
- Cable sleeve/waveguide for non-metallic feedthroughs or filtered cables, Ø80 mm
- Shielded mesh window for visual contact
- Standard closure with magnet strips
- Power-line or signal-line filter according to your specifications
- Led light inside (battery powered)
- Led light inside (with power line filter on the net)
- Data transmission filter (optical conversion, including waveguide)
- Packing/transport bag
- Many other options on request



EMI/RFI-shielded Faraday tent

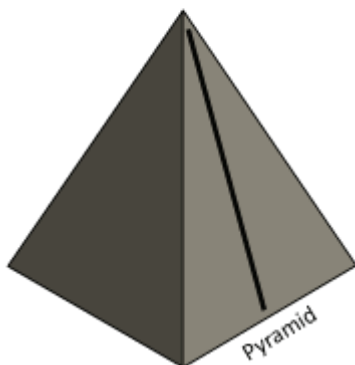


Standard sizes/shapes

We have a number of Faraday tents in standard sizes and shapes in stock. In addition, almost any size and shape can be made on request. Feel free to send us a technical drawing of the desired Faraday tent. Sample drawings can be found under Technical drawings on this page.

Please note: All measurements given in the tables below are **outer** dimensions. In a dual-layer tent, approximately 10 cm is lost on the inside of the tent. So when you order for example a 2 meters wide double layer shielded tent, the inside wide will be 1.90 meters.

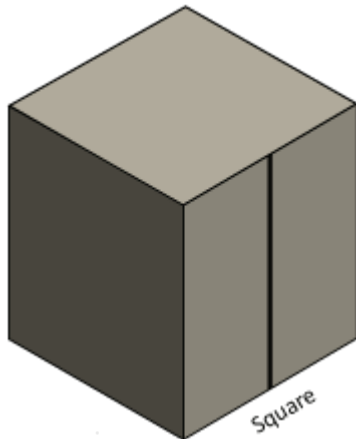
Pyramid



Part number	Size
Shielded tent-P-1-1-2.3-1	1 x 1 x 2.3 meters
Shielded tent-P-2.5-2.5-2.3-1	2.5 x 2.5 x 2.3 meters
Shielded tent-P-3-3-2.3-1	3 x 3 x 2.3 meters
Shielded tent-P-1-1-2.3-2	1 x 1 x 2.3 meters

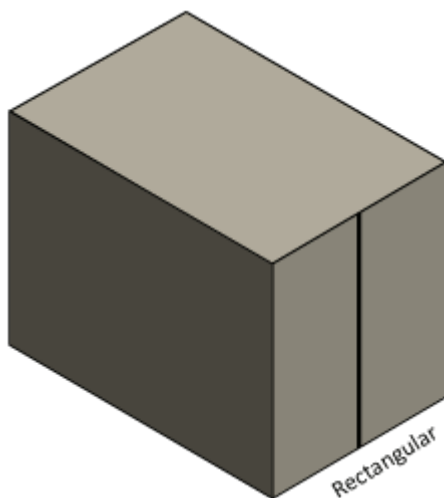
Square

EMI/RFI-shielded Faraday tent



Part number	Size
Shielded tent-S-2-2-2.3	2 x 2 x 2.3 meters
Shielded tent-S-2.5-2.5-2.3	2.5 x 2.5 x 2.3 meters
Shielded tent-S-3-3-2.3	3 x 3 x 2.3 meters

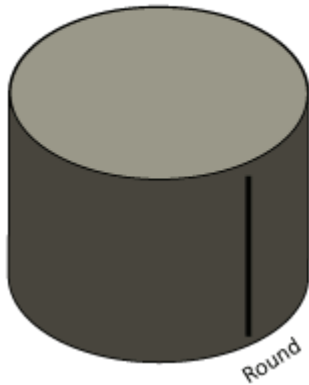
Rectangular



Part number	Size
Shielded tent-R-2.5-3-2.3	2.5 x 3 x 2.3 meters
Shielded tent-R-3-2-2.3	3 x 2 x 2.3 meters
Shielded tent-R-5-3-4	5 x 3 x 4 meters

Round

EMI/RFI-shielded Faraday tent



Part number	Size
Shielded tent-0-2-2.3	Ø2 x 2.3 meters
Shielded tent-0-3-2.3	Ø3 x 2.3 meters
Shielded tent-0-3-2.3	Ø4 x 2.3 meters

Please note: any other size on request; Most sizes are in stock.

More details

How to set up the Faraday tent

Setting up the Faraday tent takes little time and is quite easy.

The standard Faraday tent is supplied with ropes, so that the tent can be suspended from the ceiling. Optionally the Faraday tent can be delivered with a convenient mounting frame and/or plastic locks as shown in the picture below. With the plastic locks on a double-layer Faraday tent it is easy to connect the inner Faraday tent to the outer one.



Faraday tent, connection to frame

EMI/RFI-shielded Faraday tent



Connection of inner Faraday tent to outer Faraday tent

Electromagnetic radiation protection clothing

Out of the same material that is used for our Faraday tents, we can also make electromagnetically shielded clothes. [Click here for more information.](#)



Protective clothing

Our Faraday tents on BBC news

EMI/RFI-shielded Faraday tent



Our Faraday tents on BBC news

Read the article on BCC news referring to our Faraday tents

Video clip of a shielding pouch made of conductive wire mesh intended for Faraday-tent windows

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Rigid floor for heavy load



Faraday tent aka EMI shielded tent with a rigid floor for heavy load

Our Faraday tents can optionally be supplied with a very strong Mu-ferro floor. This floor is much sturdier than the original tent floor. With this floor, it is possible to drive, for example a car in the tent

EMI/RFI-shielded Faraday tent

Shielded ventilation mesh



Shielded ventilation mesh

Our Faraday tents can optionally be supplied with a shielded ventilation mesh. A double layer of fine conductive wire mesh can be installed allowing you to have fresh air or air conditioning inside the tent

Close

x

Cable sleeve for entry of filtered cables Ø80 mm



Cable shielding sleeve

The cable entry sleeve can be used for entering shielded cables or already filtered cables. If you do not use filtered cables or shielded cables they will work as an antenna, and they bring in unwanted frequencies inside the shielded tent.

Close

x

Visual contact (Mesh window)

EMI/RFI-shielded Faraday tent



Maintain visual contact with your experiment

A double layer of fine conductive wire mesh can be installed allowing you to maintain visual contact between the inside or outside of the tent

Close

x

How to access the Faraday tent



Faraday-tent access with magnetic strips

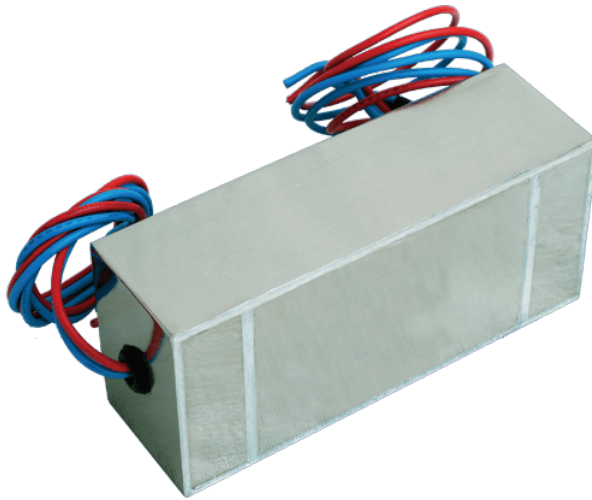
Typically the access point is provided with magnetic strips covered with electrically conductive layers of textile. The magnetic closure ensures superb electrical contact when the tent is closed. On request, the entrance can also be equipped with conductive Velcro strips.

Close

x

Power-line or signal-line filter according to your specifications

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Power- and signal line filters for a Faraday tent

We are one of the most known RFI/EMI power line filter manufacturers on the market. We offer a complete selection of power line filters. For more details see our power- and signal line filters overview.

Close

Partnumber / Ordercode:

Shielded tent	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Product	Shape	Width (m)	Depth (m)	Height (m)	Layers	Frame	Lighting
Shielded tent	Select an option:				Select an option:	Select an option:	Select an option:
	P : Pyramid S : Square R : Rectangular O : Round	The width of the tent in meters	The depth of the tent in meters	The height of the tent in meters	1 : Single layer 2 : Double layer	N : No frame (standard) I : Internal frame E : External frame	L1 : Led light inside (battery powered) L2 : Led light inside (with power line filter on the net) LN : No lighting

* Note: The red blocks are required

Sample of Partnumber:

Shielded tent	P	2,5	2,5	2,3	1	N	L1
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