Freestanding modular Faraday cage

A freestanding (independent of the host building) prefabricated modular Faraday cage provides a superior screening of RF-signals and is applicable in a wide range of situations for a wide range of purposes as described below. The modular Faraday cage is designed to meet or even exceed the vast majority of shielding requirements requested in today’s society.

Applications
- LF/RF/HF tests
- EMC test labs
- Wireless product testing
- EMI/RFI shielded server rooms
- Protection of sensitive information (NATO TEMPEST standards)
- HEMP & EMP protection
- Neuroscience laboratories
- Cellular communication devices
- Immunity & emission test chambers
- Anechoic chambers
- MRI rooms
- Neurology labs

Advantages
- Freestanding construction
- High shielding performance without deterioration
- Easy to modify, enlarge or reinstall with conventional hand power tools
- Optionally supplied as a kit for assembly by the user
- Easy to mount by skilled local workers
- Many sizes directly available from stock, custom designs available within a few weeks
- Standard 10 years warranty, moving parts and electronics excluded

Options
- Examples of several options are listed below:
  (Customized) shielded honeycomb ventilation panels
- Shielded doors
  - automatic sliding door
  - double leaf door
  - double door as in a sluice-gate construction
- Bolts on the in- or outside for construction convenience
- Shielded piping for water or gas flow
- Acoustic panels on the inside
- Lightweight version
- Entry panel fitted with:
  - Power filters, single- or three phase +N (specify amperage, voltage and frequency)
  - Feed through signal filters
  - Wave guides for passage of fiber-optic cables
  - Feed through penetration (e.g. SMA- or BNC connector)
  - Grounding bolt

Dimensions
Our prefabricated Faraday cages can be made in almost any size. By default, the following prefabricated Faraday cage panels are in stock and can be delivered quickly. A Faraday cage can also be produced according to the customers specifications. Any time you can enlarge it, make it smaller and create different shapes.

Standard cage dimensions

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<tr>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
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Custom sizes

Shielding performance prefabricated cage

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High performance cage of Faraday
Standard performance Faraday cage according to NSA 65-6/94-106
Prefabricated Faraday cages

Smooth exterior and functional interior
The panels are bolted together along their edges on the inside, leaving a smooth exterior. Lighting, busbars and furnishings can be mounted directly on the inside of the panels (see image below).

Versions for direct attachment of ferrite, and RF pyramidal absorbers can also be supplied to create an echo-free (anechoic) test chamber.

In house production facility
We produce Faraday cages daily and are therefore able to quickly deliver standard sizes from our large stock. The panels we keep in stock can also be adjusted quickly according to your needs, for example for the input of power line filters, waveguides, honeycomb ventilation panels, etc.

These custom sizes can be produced in several weeks from order date. When desired, the Faraday cage can also be adjusted on location.

Additional product information and material use
The prefabricated Faraday cage consists of galvanized (2mm thick) Mu-Ferro steel shielding panels. The galvanization ensures excellent resistance to corrosion.

Gaskets are applied between all panels of the Faraday cage to ensure a good electrical conductivity and a good seal between the panels. The gaskets are produced in our gasket production facility.

To ensure a high shielding performance over time, the bare modular prefabricated Faraday cage construction does not contain any wooden parts that could be affected by variations in temperature or moisture.

In short, the corrosion resistant panels guarantee excellent electrical conductivity and provide a high shielding effectiveness.

Fully finished interior
We can also provide a fully finished interior. The walls and ceiling of the cage are then completely decorated with wood, and the floor with carpeting so that the shielding panels of the cage are no longer visible.

Air conditioning, lighting, wall outlets cable ducts, work tables and many more features can be taken into account in this complete interior finish.

For a quotation of a prefabricated Faraday cage please send an email with drawings of the room that requires shielding. In case no drawings of the room are available, we must know the amount of square meters that require shielding. Also indicate the application of the shielded room. This enables us to think about the right solution from scratch.