Shielded Tent

RF-SHIELDED TENTS FOR EMI / EMC / RFI / TEMPEST

Shielded tents, light and quickly installed also can be transported easily, made in special metalized fabric, offer environments protection from Electromagnetic Fields. The supporting structure of the tent is done in aluminum tubing and may be personalised in its dimensions and accessories. The fabric section is made of pure Nickel conductive fabric and is covered in a Flame Retardant protection. Access areas are with a conductive Velcro closure or with magnets and zippers to assure maximum shielding effectiveness in the areas with openings as well.

Quality testing and shielding performance:

- MIL STD 202-204 vibration resistance testing and MIL STD 202-205B Shock resistance.
- Saline Fog MIL 202-101B-Test MIL STD 285 standard IEEE, in the frequency range from 30 MHz to 3 GHz.
- The average of the shielded value is about 48 dB attenuation, with peaks of 72 dB a 200 MHz and 400 MHz.

Shielding values depend on dimensions and on the type of opening closure requested by the Client.

Specifications:

Designed and manufactured entirely in Germany. Completely corrosion resistant. Optimized for EMI and EMC.

Possibility of the definition of the shielding effectiveness with the client: from 45 dB to 70 dB according to the frequency.

Dimensions: At Client request

Options:

- Shielded windows
- Technical panels for mesh filters and accessory connections
- Honeycomb filters for airflow
- Illumination

Technical description

- The Faradized tent will be made of a double wall of conductive fabrics
- Attenuation will be ≥60/70 dB from 30 MHz to 10 GHz.

The faraday cage will be made by 2 layers:

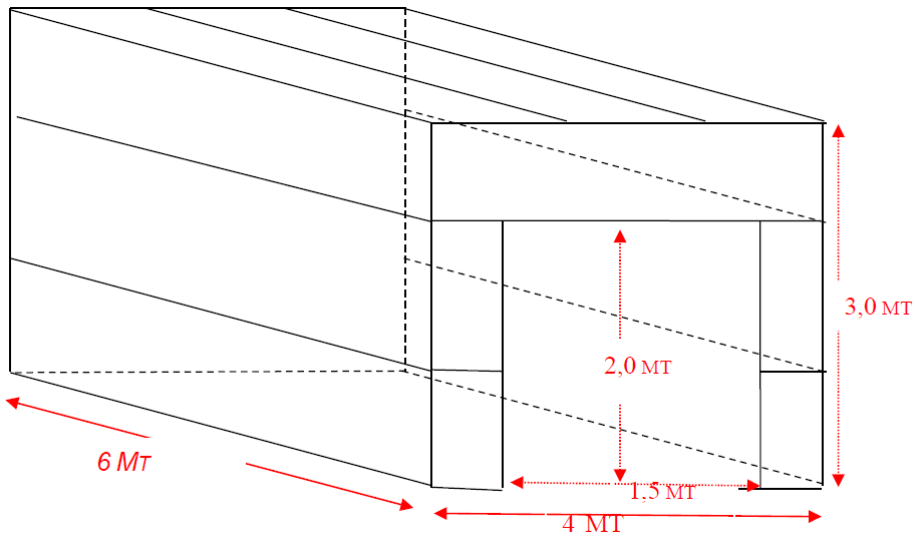
RIPSTOP CuNi® in 100% pure CuNi to resist of any scratches, corrosion in humidity and salt spray condition, to avoid the degradation of performance from any type of oxidation.

The fabric is made electrically conductive by the electrochemical patent metallization made only with electroless nickel (without the use of copper), which make the fabric unalterable and exempt from corrosion in any atmosphere specially in the saline one. Subsequently the fabric is spread with a product able to give to the product the abrasion resistance, restrain capacity of waterproofing and fire resistance.

The highest property of the product, with an higher ranking against all the competitors is its ability to maintain high electrical surface resistivity after repeated proof of the creased. The first gesture of decline, still inside the limits, happens after 5000 bending cycles.
Bending resistance test checking the electrical surface resistance in woof direction with digital multimeter = 0,01Ω resolution.

Construction

The frame is constructed from 33mm steel tubing with a thickness of 3,5mm in gauge. Tubes are galvanized for extra durability. The frame is easily assembled by bolting the standing legs with the roof section together and then fitting the cross bars. These shelters are very easy to assemble and can be put together only with help of a good ladder.
The shelter is supplied with wind braces at both ends for added rigidity. Therese shelters are designed by engineers, but not calculated for snow and wind load.



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