



AMUCOR FARADAY CAGE

Amucor foil can be used to create a Faraday cage in an existing room or building

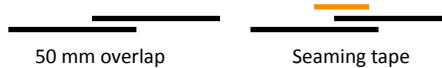
Amucor foil 4701 (4702 with self-adhesive) has high attenuation properties in the electrical field (up to 110 dB) as well as in the magnetic field (see shielding performance table).

It is easy to apply because the foil is provided with a very strong self-adhesive. For an extra good result, we recommend applying plasterboard before applying the film. After the application of the Amucor foil the interior can be finished with an extra finishing layer of plaster board, foam tiles or plywood.

The 48 µm thick Amucor is used to transform a regular room into a shielded room; the product has excellent shielding performance even at low frequencies. The system is easy to mount on shielded doors with clamping devices. The standard width of Amucor is 1000 mm. The foil can be delivered on rolls or as ready-made sheets.

OVERLAP OPTIONS

For the joints you can use a 50 mm overlap. For extra high performance you can apply a 50 mm wide copper tape over the seams.

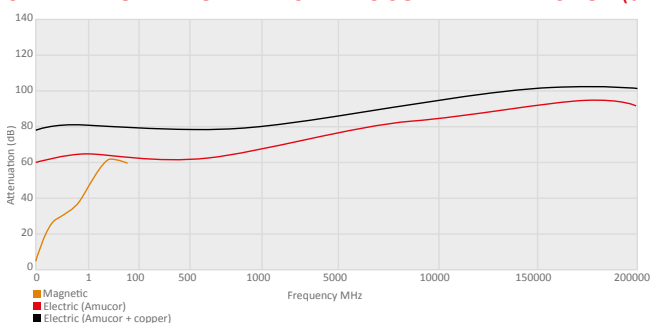


You can create a Faraday cage with high shielding performance yourself in an economic way, using local labour. This is possible in existing buildings as well as in new ones, without loss of space. Depending on the quality of the doors, vent panels, filters and/or windows used, attenuation levels up to 80-100 dB in the E-field can be realized.

ADVANTAGES OVER MESH

Mesh does not protect against high frequencies and it is difficult to connect all wires or the mesh in big constructions. With foil you can use the whole surface to create coupling.

SHIELDING PERFORMANCE AMUCOR FARADAY CAGE (dB)



ADVANTAGES

- Cost-effective / takes up little space
- Equipped with self-adhesive allowing very easy appliance of the film
- Light weight / high floor load
- Can be constructed by local contractor under supervision of Holland Shielding Systems
- Standard interior finish possible like plasterboard
- Can be delivered with 10 year guarantee
- Maintenance free
- Delivery with turnkey measurement report

APPLICATIONS

Amucor film is suitable for a large scale of applications where a medium performance reduction is required. Below we have made a small list of some commonly used applications.

Data security for

- Computer rooms
- Industrial espionage/ Secure room
- Intelligence agencies
- Board room shielding
- RF Noiseless

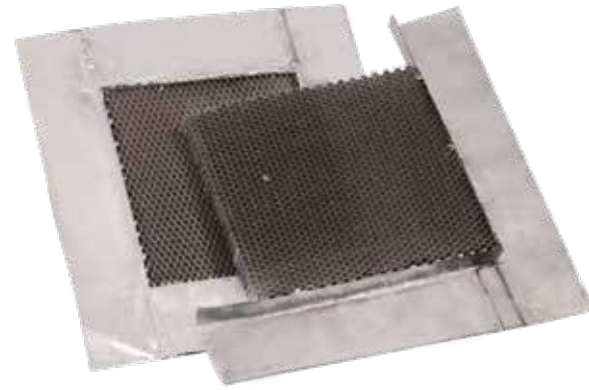
Data security for: server rooms

- Computer rooms
- Industrial espionage/ Secure room
- Intelligence agencies
- Board room shielding
- Free from Radar interference on Airports
- TEMPEST Sites
- Military EMC protection

VENTILATION

For ventilation we have developed honeycomb ventilation panels. Especially for the Amucor Faraday cages we can deliver optimized honeycomb vent panels for this type of cage.

For other honeycomb ventilation panels, like rigid aluminium Framed Honeycombs, see our Honeycomb ventilation webpage.



AMUCOR WITH A REINFORCEMENT NET

Amucor foil can also be produced with a strengthening reinforcement net. Because the material with the reinforcement net is so strong, it can be produced in a very large width of 3100 mm. This material is designed to cover walls and floor for protection against unwanted radio frequencies (RF).

We fabricate self adhesive Amucor foil up to 1100 mm width for quickly covering complete rooms. We also have a 3100 mm (10ft) width version is available.

MODIFIED RF SHIELDED DOOR

When a lower performance of e.g. 40-60 dB is acceptable, we can retrofit your existing door. The door is then equipped with gaskets at the top and sides, and with a conductive copper brush and doorstep at the bottom. Both swinging and sliding doors are suitable for being shielded this way. For heavy duty applications we can supply Faraday cage doors that offer up to 140 dB reduction. For more information see our Faraday cage doors webpage.

Swinging-doors



EMI/RFI-shielded sliding doors



Wooden-modified-doors



COMPONENTS

In addition to EM shielded doors and windows, the screened rooms can be equipped with the foil.

- Shielded doors
- Shielded windows
- Shielded ventilation panels
- Power and signal line filters
- We also offer shielding solutions for water pipes, medical gases, and ventilation when needed.

