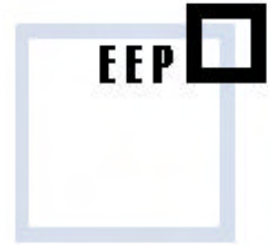


RADIO FREQUENCY SHIELDED WINDOWS



European EMC Products Ltd



Example of secondary RF shielded window in laboratory

Radio frequency shielded windows are manufactured from a fine metal mesh laminated between 2 sheets of glass or acrylic.

The shielding attenuation achieved will not only depend on the mesh but the method of connecting the mesh to the surrounding frame. EEP Ltd can advise on the best solution for each individual application.

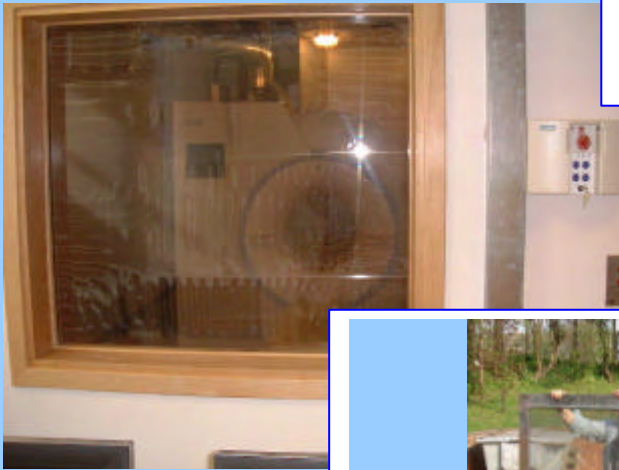
Detailed below is the attenuation achieved using 100 OPI (openings per inch) stainless steel mesh with wire diameter 0.050mm. Light transmission using 0.050 mm diameter mesh is approximately 60%.

RF performance

Electric Field : 60dB from 10 kHz to 100 MHz

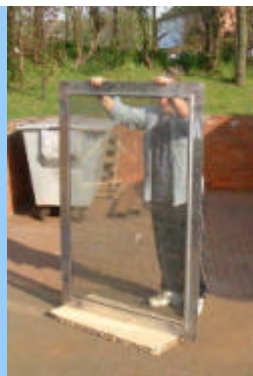
Planewave: 50dB from 400 MHz to 1GHz

RF viewing window in MRI scanner room



EEP Ltd can also supply the mesh to allow you to make your own windows.

For applications requiring a higher level of attenuation it is possible to have a double unit with 2 sheets of glass separated by a spacer, or 2 layers of mesh laminated between the glass. In this case each mesh layer must be angled to prevent optical interference.



Large RF window for bolting into modular RF room, showing window clarity

European EMC Products Limited

Unit 8 : Saffron Business Centre : Elizabeth Way : Saffron Walden : Essex : CB10 2NL

Registered in England Number 3209118 : VAT Number 676 5479 78

Tel + 44 1799 523073 : Fax + 44 1799 521191 Email : info@euro-emc.co.uk : Web : <http://www.euro-emc.co.uk>