

DC MAGNETIC FIELD SHIELDING SYSTEM**DC SHIELD APPLICATIONS**

The applications for DC shield are limited to MRI magnets, the Earth's DC field and other special applications.

Often the safe 5g MRI footprint line encroached on public/work spaces and so the DC field in that area requires attenuating.

DC shielding works on the permeability of the shield medium, this causes 'magnetic reluctance' that is: the ability of a shield to cause the DC field to flow easier in the shield than in free air.

Exotic materials such as Mu metals have ultra-high permeability but are cost prohibitive and require re-annealing if worked.

It is proven that several thinner layers of shielding (faraday cage within a faraday cage) is more effective than a single thicker layer.

GLOBAL EMC SYSTEM

The Global EMC system is a multi-layer utilizing:

- » An outer sacrificial layer of high permeability steel
- » Inner layers of high permeability electrical steel separated by insulator layers

