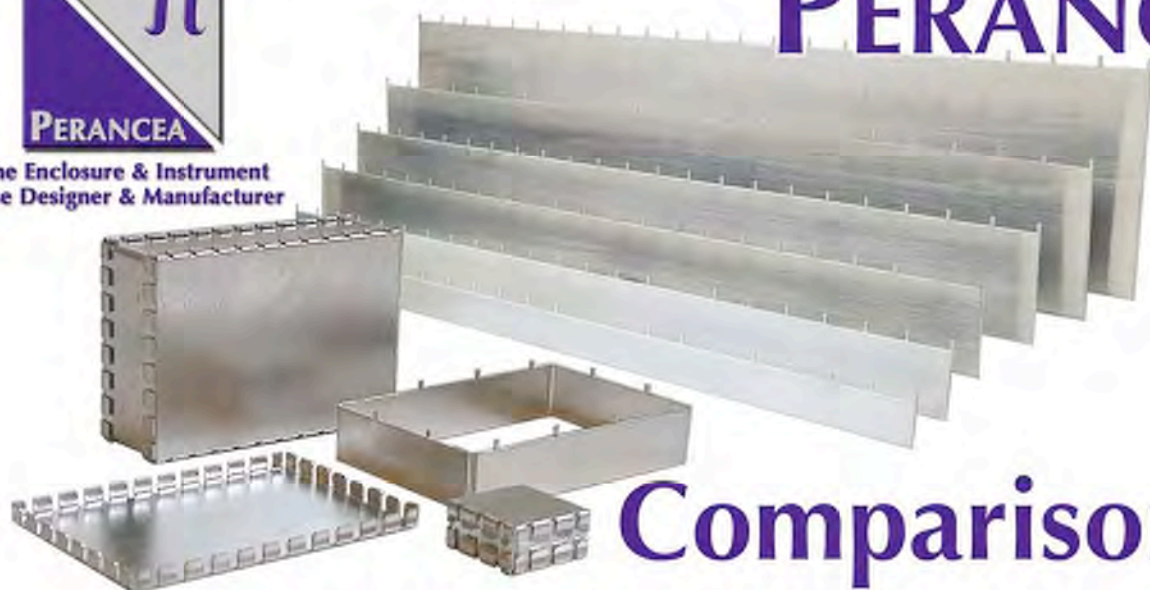




The Enclosure & Instrument  
Case Designer & Manufacturer

# PERANCEA



## A Comparison of Materials for Screening

Perancea has extensive experience and expertise in RFI/EMI screening, particularly at board level, providing a whole gamut of solutions to control EMC.

Screening performance is dependent on other factors as well as the choice of enclosure and thus the level of screening can only be ascertained by testing the final product. However, the following provides an indication of the attenuation efficiency rating over a range of materials:

Material	Attenuation	Surface Resistivity ( $\Omega/\text{sq}$ )	Conductivity (Mho)	Cost Ratio
Steel	Best	$20 \times 10^{-6}$	$5 \times 10^4$	1
Bright acid tinned steel	As Above	Lower than above	Higher than above	3
Nickel	2nd	$11.8 \times 10^{-6}$	$8.5 \times 10^4$	20
Copper	3rd	$1.78 \times 10^{-6}$	$5.6 \times 10^5$	8
Brass	4th	$9 \times 10^{-6}$	$1.11 \times 10^5$	8
Aluminium	5th	$3.21 \times 10^{-6}$	$3.1 \times 10^5$	2

The above figures are provided only as a guide and should not be taken as binding upon the manufacturer

- 1: No detailed figures for attenuation are available
- 2: Surface resistivity - the lower the figure, the better the conductivity
- 3: Conductivity - the higher the figure, the better the conductor

If you need screened enclosure solutions to protect your applications against RFI and EMI, call Perancea now and see what we can do for you.

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