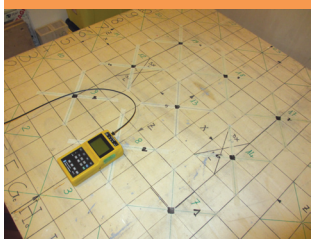
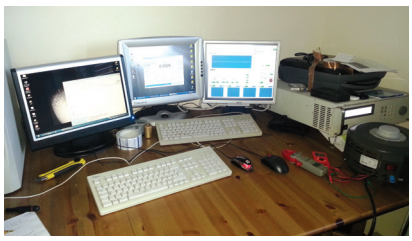
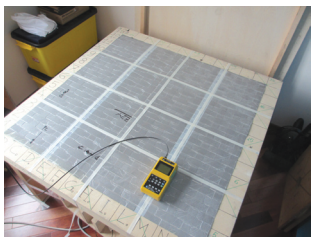
G-iron

LOW FREQUENCY MAGNETIC SHIELD

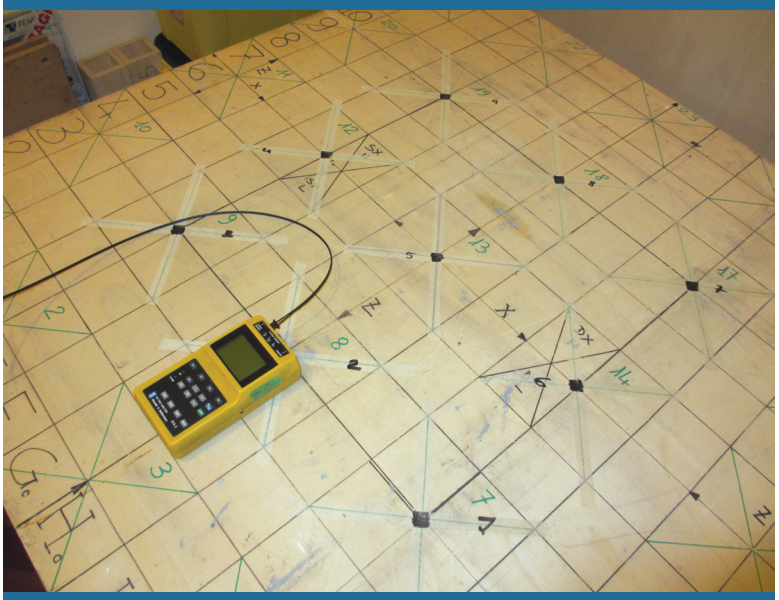



Measurement SET

Picture 1

La misura viene effettuata su di un piano in legno di forma quadrata con lato di 1400 mm. Si identificano N°9 referenze di misura, Mark, per ognuno dei quali vengono misurati i valori di induzione senza schermatura (in campo libero)



To make measurements we use a wooden square plane, with the side of 1400 mm. 9 different measurement points (Marks) are identified on the table before laying the shielding system. Several induction values will be measured for each Mark (non shielded Induction)

Per generare l'induzione si utilizza una bobina in materiale plastico DIN 250 con avvolto N°220 spire in rame smaltato di diametro 2,7 mm posizionata sotto il piano di misura, perfettamente al centro, ad una distanza di 210 mm

Picture 2

To generate the induction levels, we use a 220-turn, 2.7 mm-diameter, copper wire coil located 210 mm underneath the exact center of the measuring table.

Si caratterizzano i Mark selezionati in campo libero generando l'opportuna tensione mediante un "programmable AC source mod. 61061", prodotto da Chroma, con incrementi di 0.5 V.

Picture 3

For each Mark, we generated the appropriate induction level by adjusting the supply voltage with a "programmable AC source mod. 61601" manufactured by Chroma, with increments of 0.5 volts.

Si ripete la misura in contatto della schermatura opportunamente configurata (campo schermato) in corrispondenza dei punti determinati precedentemente

Picture 4

Then we put the right configuration of the shielding system on top of the table and measure the shielded induction at the different pre-determined points

Picture 5

Picture 7

Picture 6

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I VALORI SONO RIFERITI ALLA MISURAZIONE IN MARK 5, SITUATO AL CENTRO DEL TAVOLO DI MISURA, CON STRUMENTO IN CONTATTO CON IL TAVOLO IN CAMPO LIBERO (NON SHIELDED INDUCTION) E CON LO SCHERMO IN CAMPO SCHERMATO (SHIELDED INDUCTION).

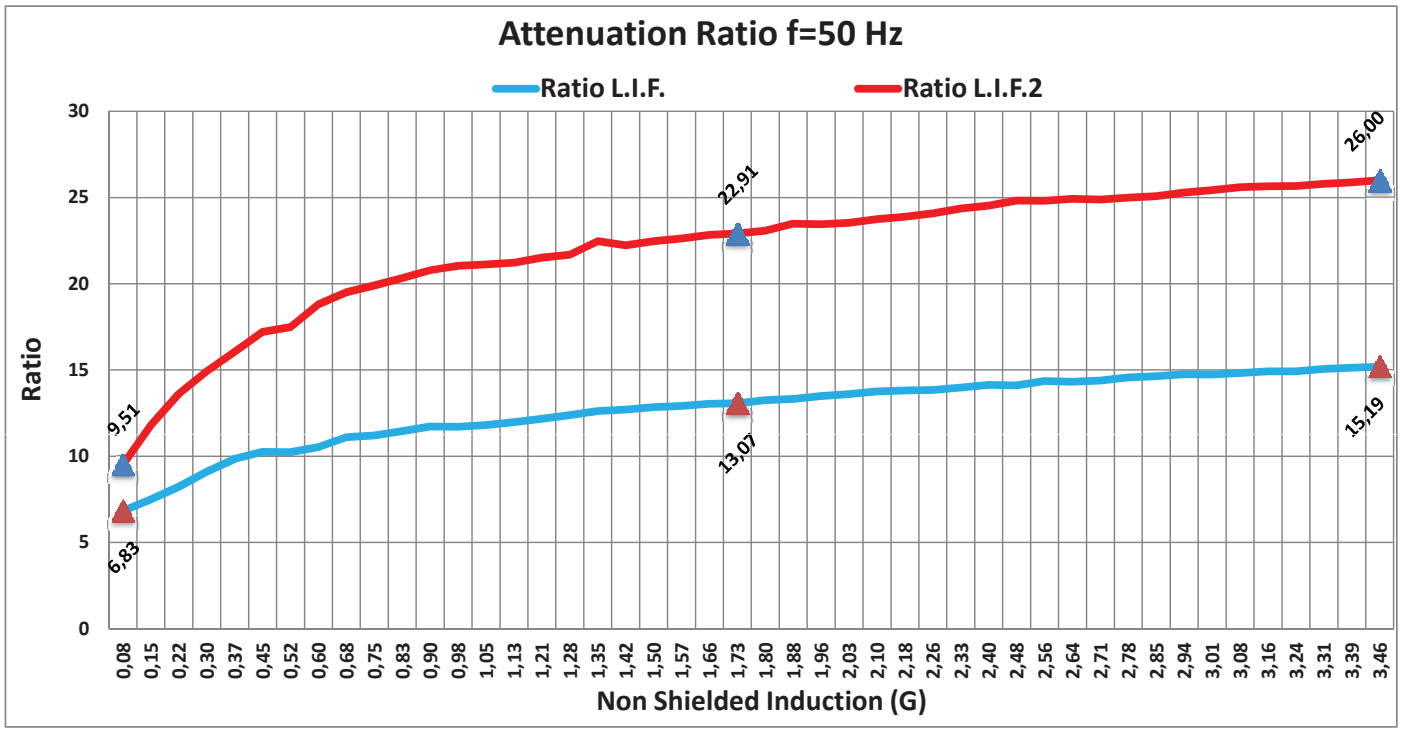
VALUES ARE RELATED TO THE MEASUREMENT IN MARK 5, LOCATED AT THE CENTER OF THE PLANE, WITH TOOL IN CONTACT WITH THE TABLE, WITHOUT (NOT SHIELDED INDUCTION) AND WITH (SHIELDED INDUCTION)THE MAGNETIC SHIELDING.

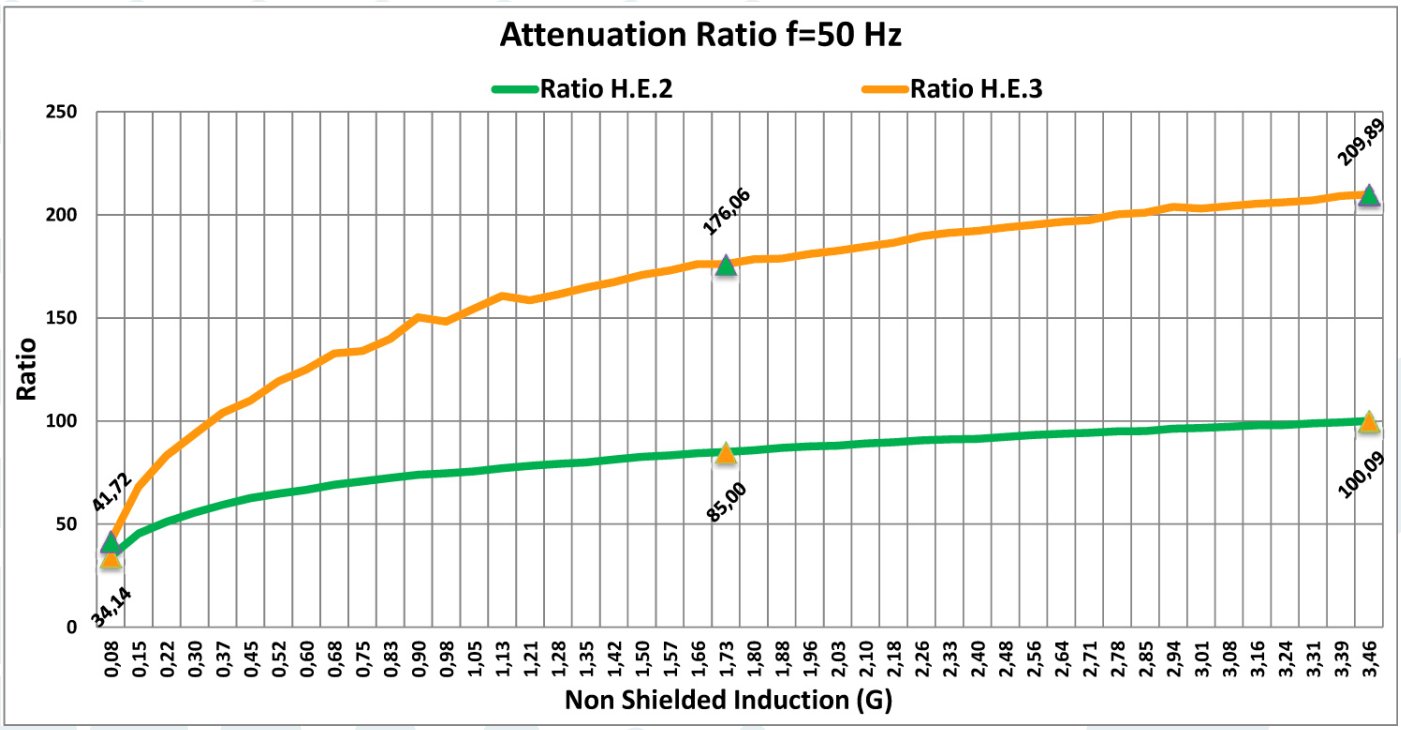
Picture 5, 6, 7: Se necessario si può procedere a valutazioni con distanze variabili dallo schermo, utilizzando ulteriori supporti in legno, in modo da ottenere maggiori dettagli riguardo gli effetti della schermatura

Picture 5, 6, 7: We are able to measure and compare values at different distances from the source by using additional wooden supports, in order to understand the shield's effects in greater details.

GRAFICI 50 Hz

G-iron L.I.F. (Low Intensity Field) = One layer of G-iron Flex
G-iron L.I.F.2 (Low Intensity Field)= Two layer of G-iron Flex crossed 90°
G-iron H.E.2 (High efficiency) = One layer G-iron Flex+ 3 mm Aluminum alloy
G-iron H.E.3 (High efficiency)= Two layer G-iron Flex + 3 mm Aluminum alloy





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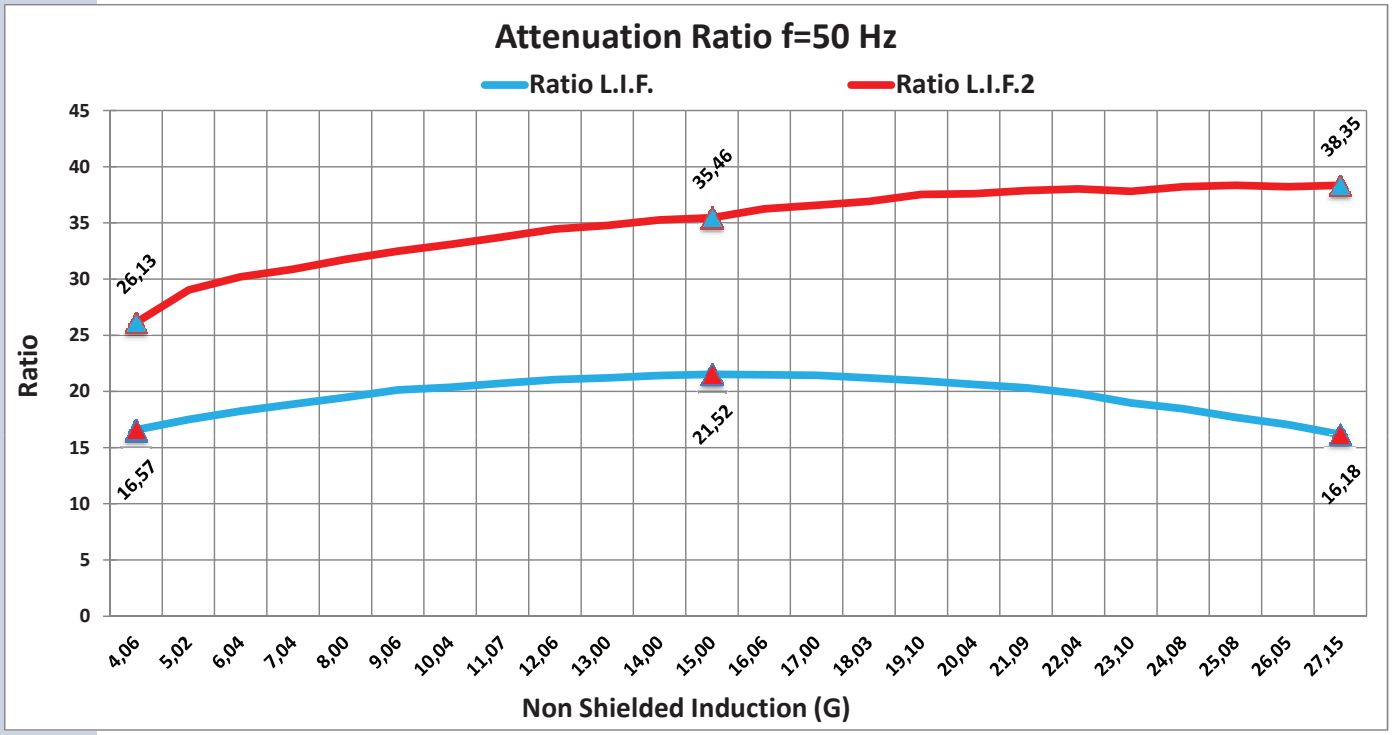

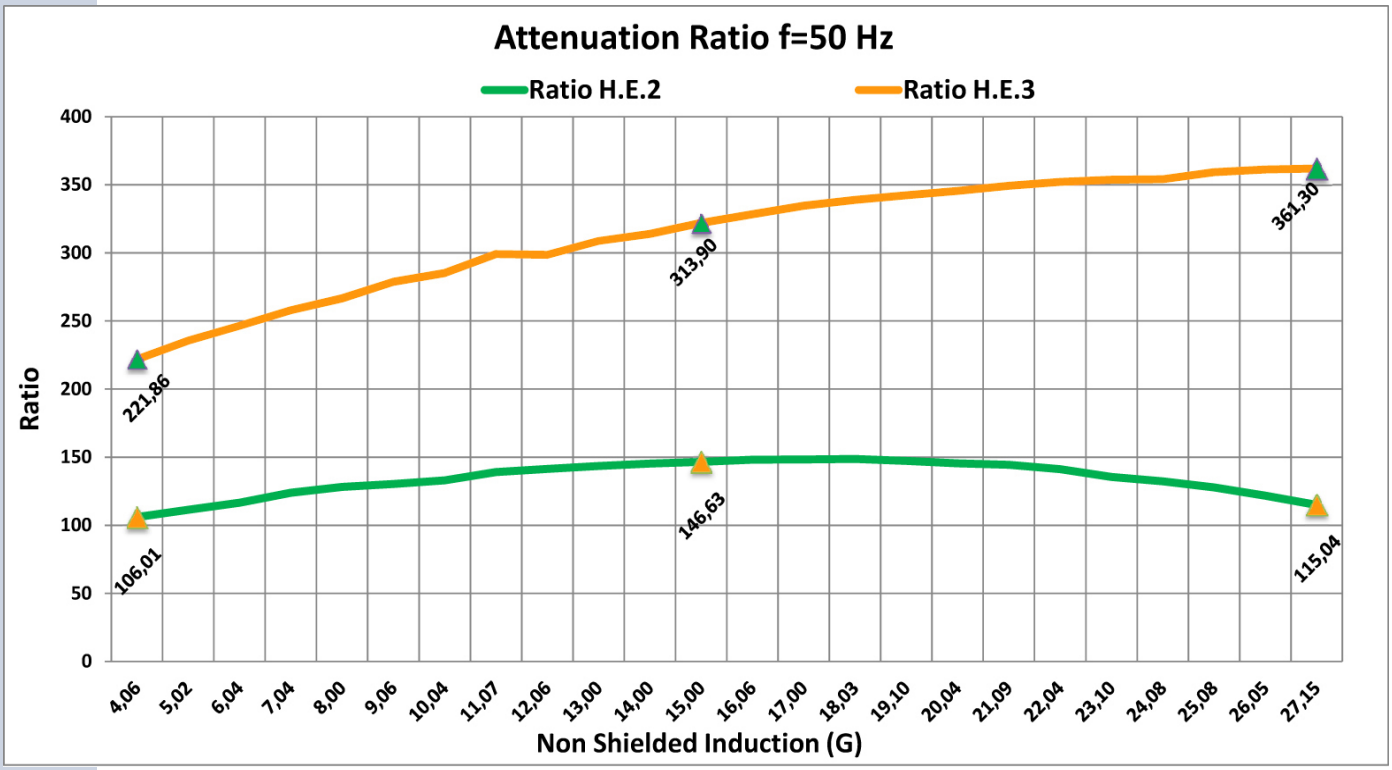

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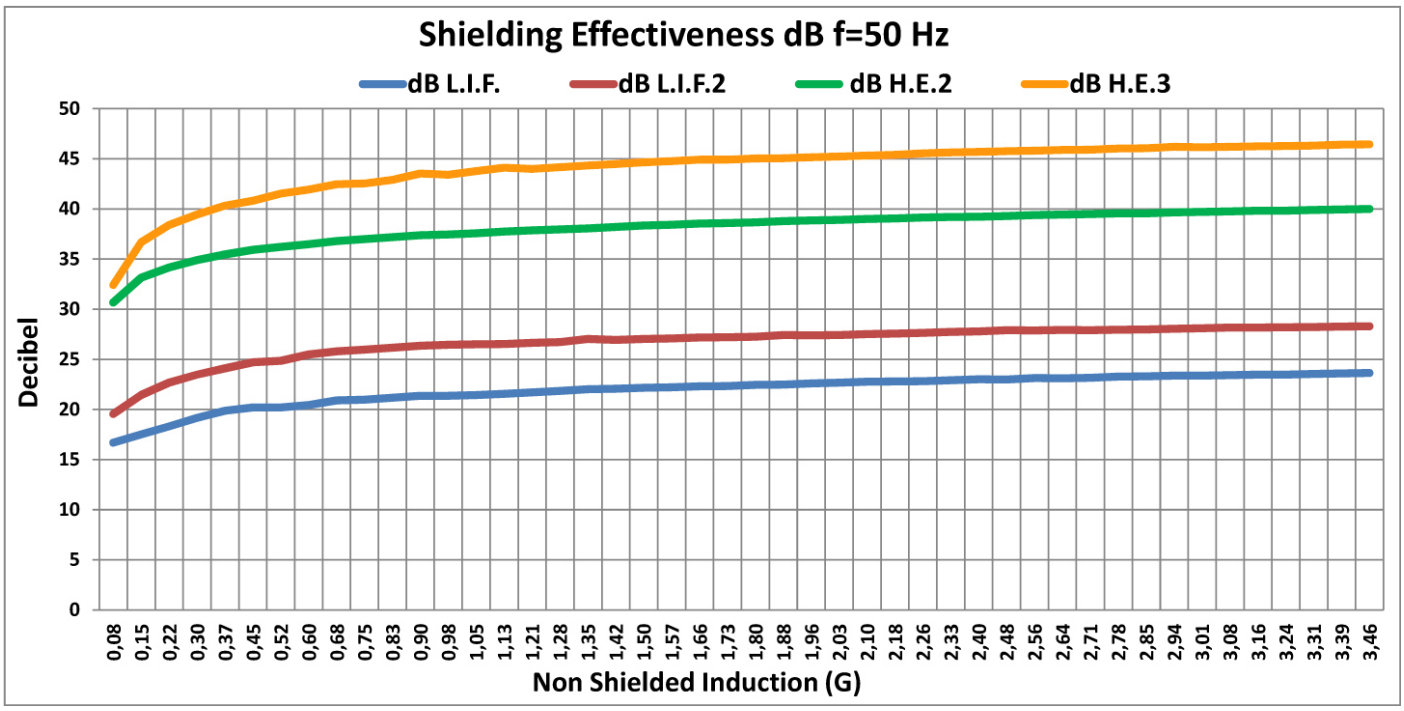

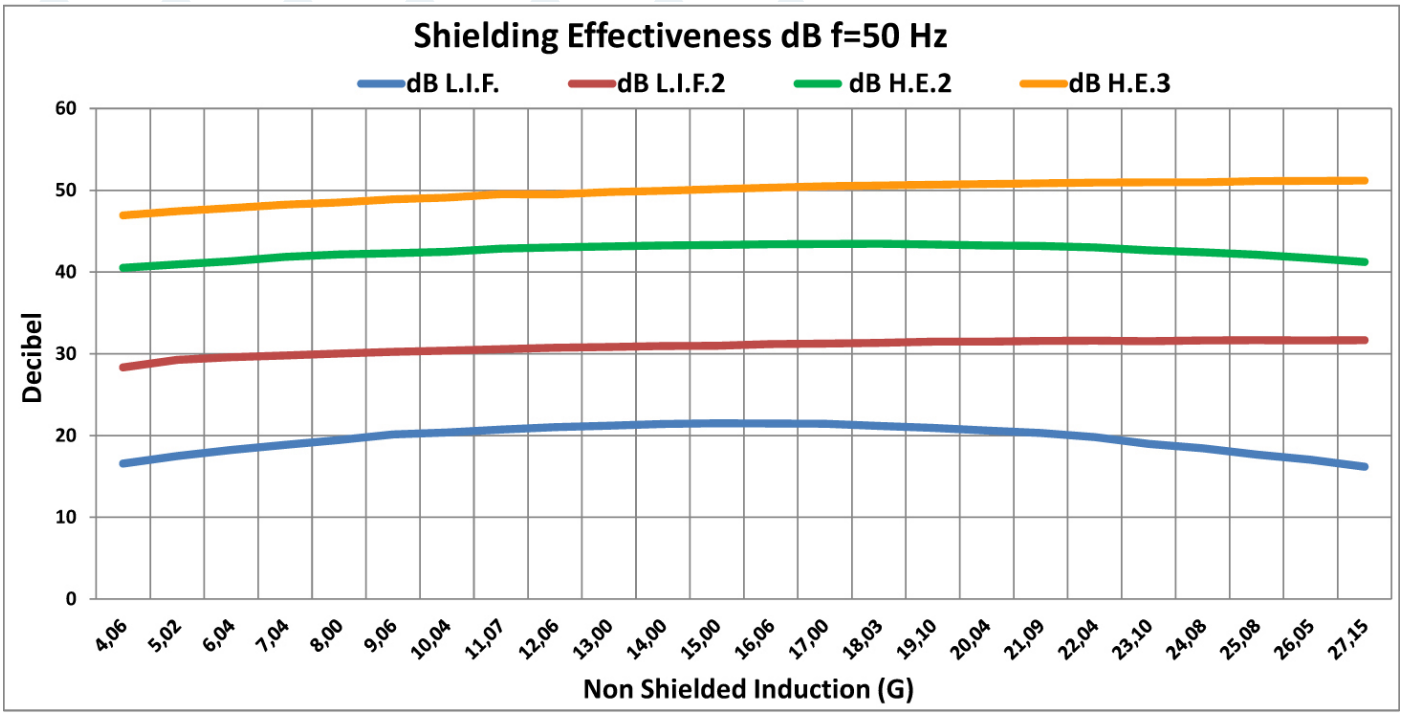

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Arezzo - ITALY
Tel. +39 (0) 575-381893
Fax. +39 (0) 575-984593
www.g-iron.it
info@g-iron.it