

FERRITE ABSORBER LINING HYFRAL FE

HYFRAL FE is a range of ferrite panels consisting in both tiles and steel sheets.

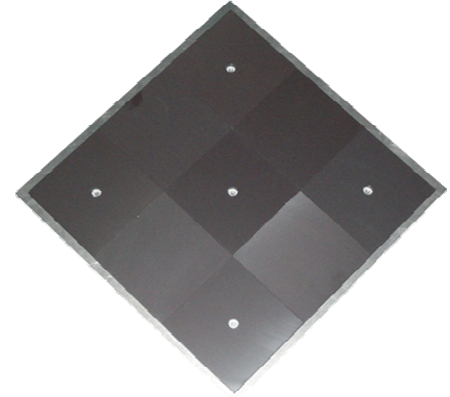
METHOD OF USE

HYFRAL FE are installed in anechoic chambers (5 or 6 walls) thanks to horizontal metallic profiles, screwed on vertical rails assembled together with the steel framing of the chamber.

In full anechoic chambers, floor tiles are directly put on the ground plane and covered with a radio transparent protective layer.

Remark: This technical solution enables to:

- easily dismantle one or several panels anywhere,
- easily dismantle the entire chamber,
- installation cables between the ferrite panels and the wall.



MAIN CHARACTERISTICS

A hole, 10 mm diameter, can be made in the centre of the tile upon request.

Type	Thickness (mm)	Length (mm)	Width (mm)	Nb of tiles	Weight (kg)
FE10 N	6	100	100	1	0.30
FE10 Z	6,7	100	100	1	0.34
FE 30 Z	8	300	300	9	3.1

PERFORMANCES

MINIMUM REFLECTIVITY OF FERRITES in dB												
for incidence angles close to the normal												
Type	Thickness (mm)	30 MHz	50 MHz	80 MHz	100 MHz	150 MHz	300 MHz	500 MHz	1000 MHz	2000 MHz	4000 MHz	6000 MHz
FE 10 N	6	-10	-14	-18	-20	-26	-22	-16	-8	-7	-4	-3
FE 10 Z	6,7											
FE 30 Z	8 to 19	-17	-19	-21	-23	-25	-23	-16	-10	-7	-4	-3

Chambers lined with ferrite tiles can meet the performances requested by the most common international EMC standards from 26 MHz up to 1 or 2 GHz depending on the size of the enclosure.

In order to extend the performances up to 18 GHz (or more), hybrid foam absorbers must be added on top of the ferrite tiles. We recommend the use of HYFRAL hybrids, designed for use in SIEPEL chambers. Partial or total coverage is possible according to the standard to be met (see our data sheet Hybrid Pyramidal Absorber Hyfral HY).

SIEPEL will help you to define the proper lining according to your requirements.



These data are the result of tests performed in our laboratory. They are considered to be the best of our knowledge. The use of the material and the specification of the performances are made under the whole responsibility of users who should ensure themselves that the material is suitable for their purposes.