

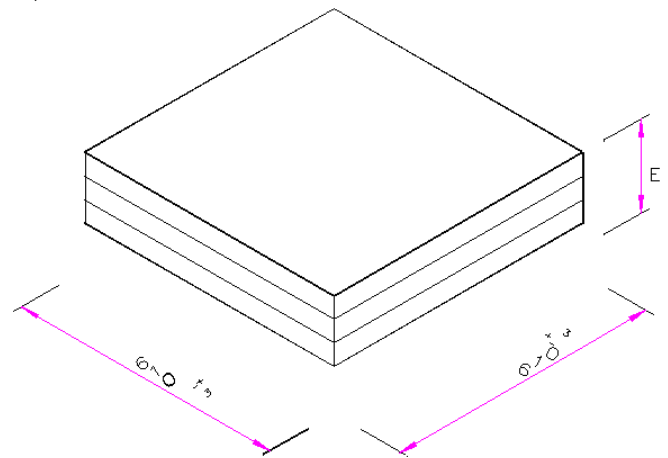
THREE LAYER FLAT ABSORBER

HYFRAL AT

HYFRAL AT consisting in three layers of polyether polyurethane foam with 90% open cells impregnated with a dielectric carbon solution, a binder and a fire retardant.

FIELD OF APPLICATION

HYFRAL AT are used to cover all metallic surfaces, walls in shielded rooms, masts and antenna bases. They also contribute to the reduction of coupling between antennas. Their high absorption characteristics are obtained with small thicknesses.



METHOD OF USE

HYFRAL AT absorbers are flexible and can be cut easily. They are installed thanks to HYFRAL 135 glue or Velcro fastening system or auto adhesive tape. HYFRAL 135 glue is applied with a brush or a pneumatic pistol to both faces to be glued.

Type	E Total thickness	Weight kg
AT 60	60 mm	1.16
AT 350	350 mm	7.5

Standard size: 610 x 610 mm
(Length: 1220 mm upon request)

REFLECTIVITY OF HYFRAL AT IN dB (typical values)

For incidence angles close of the normal

Type	Thickness (mm)	100 MHz	150 MHz	200 MHz	300 MHz	500 MHz	1 GHz	2 GHz	4 GHz	8 GHz	12 GHz	18 GHz	26 GHz	40 GHz
AT60	60				- 3	- 5	- 8	- 12	- 18	- 18	- 20	- 20	- 20	- 20
AT350	350	- 8	- 12	- 15	- 16	- 17	- 20	- 22	- 23	- 23	- 23	- 23	- 23	- 23

MAIN CHARACTERISTICS

Matrix:

polyether polyurethane foam with 90% open cells.

Impregnating agents:

carbon, binder, fire retardant.

Colors:

black, blue, white, green, red (other colours upon request).

Paint:

plastic coated paint for class 100, 000 clean room.

Maximum service temperatures:

[- 70 ; +160]°C

Power handling:

0.16 W/cm² max CW.

Fire resistance:

NRL 8093 (Test 1, 2, 3), ISO 11925-2, DIN 4102 (class B2).

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.