MULTI-LAYER FLAT ABSORBER AH

AH is a range of flat absorbers consisting of five layers of polyether polyurethane foam with 90% open cells impregnated with a dielectric carbon solution, a binder and a fire retardant.

AH absorbers are used to cover all metal surfaces, masts and antenna bases, and also contribute to coupling reduction between antennas. The high absorption characteristics of AH are obtained with small thicknesses.

MAIN CHARACTERISTICS

- **Matrix:** polyether polyurethane foam with 90% open cells.
- **Impregnating agents:** carbon, binder, fire retardant.
- **Colors:** black, blue, white, green, red (other colors on request).
- **Paint:** plastic coated for clean room.
- **Maximum service temperatures**: - 65° C to 160° C.
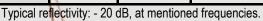- **Power handling:** 1600 W/m² max CW.

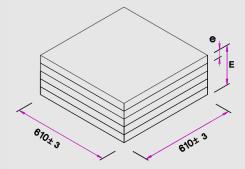## COMPLIANCE TO STANDARDS & DIRECTIVES

Fire resistance: NRL 8093 (Test 1, 2, 3), ISO 11925-2-Euroclass E, DIN 4102 (class B2).
Our raw materials are compliant to **RoHS / REACH** and free of substances in the current list of Substances of Very High Concern (SVHC) published by the European Chemicals Agency (ECHA)

Both aqueous and plastic paint coating were developed to enable work in ISO 4 (ISO14644-1 2015) clean room conditions.

DIMENSIONS

Type	e Thickness of one layer	E Total thickness	Frequency in GHz	Weight in kg
AH 25	5 mm	25 mm	9 to 100	0.56
AH 30	6 mm	30 mm	5 to 100	0.67
AH 40	8 mm	40 mm	2.4 to 100	0.89
AH 60	12 mm	60 mm	1.2 to 100	1.02
AH 75	15 mm	75 mm	1 to 100	1.65
AH100	20 mm	100 mm	0.8 to 100	2.22
AH 125	25 mm	125 mm	0.7 to 100	2.78
AH 250	50 mm	250 mm	0.5 to 100	5.55

Typical reflectivity: - 20 dB, at mentioned frequencies.

METHOD OF USE

AH are very flexible and easy to cut. They can be installed thanks to Neoprene glue to be applied with a brush or a pneumatic spray gun to both faces to be glued.

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.