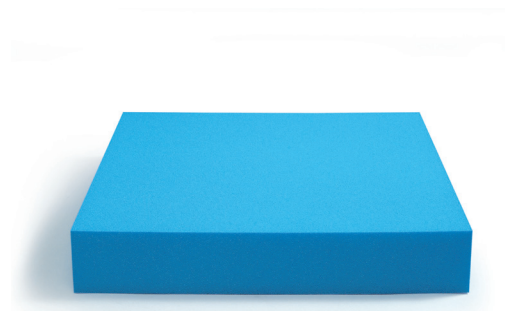


WAVASORB[®] FS

Advanced Flat Absorber



- WAVASORB FS is a series of flat, carbon-loaded, urethane-foam absorbers.
- Yielding sufficient performance in the operating frequency range from 100 MHz to 110 GHz for lining corners of anechoic chambers.
- Certified to all fire-retardancy and environmental specifications by containing an advanced chemical composition.
- Excellent power handling capability is assured.
- REACH- and RoHS-compliant, maintaining a healthy environment for operation.
- Designed and quality controlled using commercial and original simulating and test techniques.

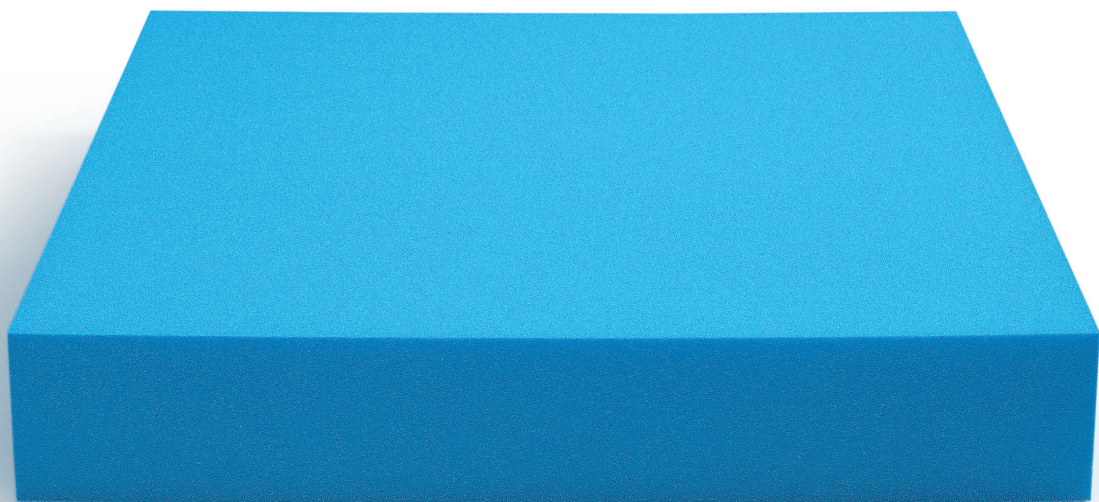
WAVASORB® FS

E&C Anechoic Chambers has a fully automated manufacturing facility with CNC-controlled foam-cutting machines, computer-controlled impregnation, drying processes, and robotized painting to ensure stability of RF and fire-retardant performances.

Seventy years experience with absorber-manufacturing techniques provides consistency in chemical compositions, electrical and fire-retardant properties with uniform distribution.

E&C Anechoic Chambers can provide customized solutions to accommodate cleanroom requirements, flexible coatings and paintings to improve durability, and engineered pre-cuts and custom parts fit for equipment linings.

Perfectionism is our goal, with special attention to the dimensions and geometry of the individual absorber panels that enhance performance as well as optical appearance of the entire test facility.



Measurement Techniques

WAVASORB FS is manufactured in well-defined batches, and their reflectivity and fire-retardant properties are continuously monitored following internal ISO 9001 procedures.

Installation Methods and Chamber Validation

WAVASORB FS is bonded to metallic surfaces using WAVASORB Adhesive 13111. For easy exchange, modular installation techniques are available using Velcro fasteners or Plate & Rail mounting to achieve perfect geometry and alignment compatibility with any type of shielding.

Contrast colors are available in various types of paint and coating.

E&C Anechoic Chambers has developed VSWR Field-Probe measurement techniques for anechoic chamber validation, verifying the chamber performance at the system level.

Applications

WAVASORB FS is the preferred solution for the lining of corners and complex areas in Far-field, Near-field and Compact Antenna Test Ranges, Radar Cross Section (RCS) facilities, Electronic Warfare (EW) test ranges and wireless Over-The-Air (OTA) measurement systems. Sizes can easily be customized to fit any specific project area.

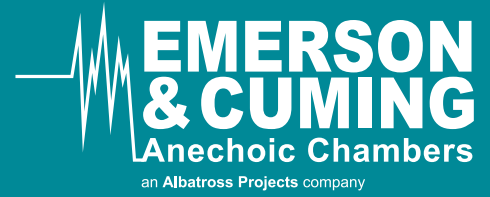
Characteristics

Standard Color	Blue (contrast colors available on request)
Operation Temperature	+5°C to +35°C
Humidity Range	30% to 70%
Frequency Range	100 MHz- 40 GHz
Fire-retardancy	NRL 8093 Tests 1, 2 and 3 DIN 4102-1 Class B2 ISO 11925-2 Class E UL-94/HBF ISO 4589-2
RoHS Compliant	According to 2011/65/EU
Reach Compliant	According to EC 1907/2006
Environmental AATCC 30-IV (2004)	IEC 60068-2-1 Test Ab
Quality Control	IEEE Standard 1128 ISO 9001
Product Life	20+ Years

Physical Properties

	Thickness (cm)	Nominal Weight (kg)
WAVASORB FS-50	5	1.5
WAVASORB FS-100	10	2.5
WAVASORB FS-150	15	4
WAVASORB FS-200	20	5

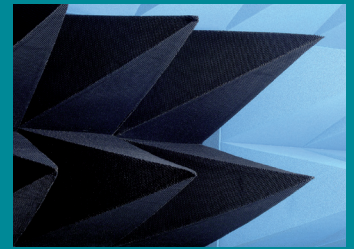
Standard Footprint: 61 x 61 cm



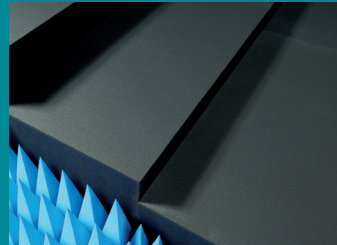
Related WAVASORB® Series



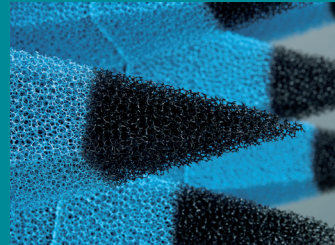
WAVASORB® VHP CO:
Coated Absorber



WAVASORB® HFX/HFS:
High Power Absorber



WAVASORB® VHP FL:
Walkable Floorabsorber



WAVASORB® VHP VE:
Ventilation Absorber



WAVASORB® VHP OD:
Outdoor Absorber

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