

WAVASORB® CV

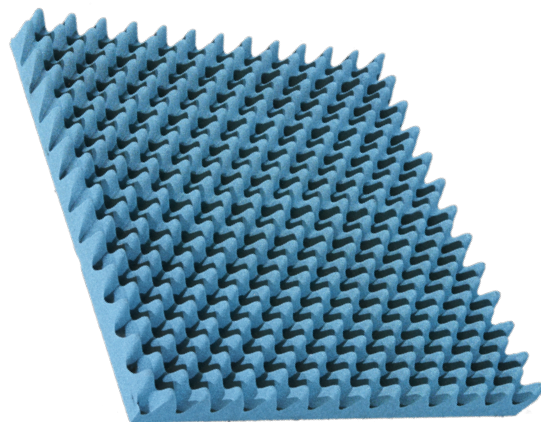
Convolute Broadband Foam Absorber

- WAVASORB® CV is a series of 3D-shaped light-weight foam absorber.
- The front side has a convoluted shape which improves mono-static back-scattering performance, especially at higher frequencies.
- Due to its specific shape, the reflectivity level will degrade less compared to pyramidal absorbers for higher angles of incidence of the signal.
- REACH and RoHS-compliant, maintaining a healthy environment for operation.
- Designed and quality controlled using commercial and original simulating test techniques.

Installation Methods

WAVASORB® CV is typically bonded to metallic surfaces using WAVASORB® Adhesive.

For easy exchange, modular installation techniques are available using velcro-fasteners to achieve perfect geometry and alignment, compatible with any type of shielding.



Applications

WAVASORB® CV can be applied to:

- mount on removable walls in test areas;
- facilitate installation in application-specific areas;
- line areas nearby RF-systems to suppress reflections;
- refurbish absorber collars (shrouds) around the edges of high performance antennas;
- install in anechoic test boxes;
- cover metal structures in anechoic test environments;
- be used in small test boxes;
- be used for millimeter-wave applications.

Multiple variables go with our WAVASORB® CV-absorbers, e.g. plastic coating, painting/coating colours, self-adhesive tape factory-installed, ...

For more information on variables, contact your sales representative.



With respect for the environment



Characteristics

Handling temperature⁽¹⁾	+5°C to +35°C
Humidity range	30% to 70%
Frequency range	Typically above 2 GHz up to 40 GHz
Maximum incident power density⁽²⁾	1,5 kW/m ²
Fire retardancy tests	Compliant with: <ul style="list-style-type: none"> - UL-94 HBF & V-0 & HF-1 - EN13501-1: ISO 11925-2 Class E - ISO 4589-2 - DIN 4102-1 Class B2 - NRL 8093 Tests 1, 2 and 3
Environmental testing	According to: <ul style="list-style-type: none"> - IEC 60068-2-1 Test Ab - IEC 60068-2-78 - AATCC 30-IV (2004)
REACH compliant	According to EC 1907/2006
RoHS compliant	According to 2015/863/EU
Quality control	IEEE Standard 1128 ISO 9001
Product life	+25 years under controlled environment

⁽¹⁾ Depending on the application, the absorber can withstand temperatures of +90°C; for more information, contact your sales representative

⁽²⁾ High-power testing: 1,5 kW/m² for a continuous illumination with a duration of 20 minutes or less and better than 800 W/m² for a continuous (CW) illumination with a duration longer than 20 minutes. For more information, contact your sales representative

Physical properties

	Standard color ⁽¹⁾	Standard footprint ⁽²⁾
WAVASORB® CV	Light blue	61 cm x 61 cm

⁽¹⁾ Contrast colours available on request

⁽²⁾ The above-mentioned dimensions have a tolerance of +/-6 mm

	Total height ⁽¹⁾ (cm)	Nominal weight ⁽²⁾ (kg)
WAVASORB® CV-3	6,7	1,2
WAVASORB® CV-4	10,0	1,6
WAVASORB® CV-6	15,2	2,5

⁽¹⁾ The above-mentioned dimensions have a tolerance of +/-6 mm

⁽²⁾ Weight values are subject to changes

Typical reflectivity performance at normal incidence

WAVASORB® CV is measured in the set-ups made according to the IEEE Standard 1128.

	TYPICAL REFLECTIVITY (dB)			
	2 GHz	4 GHz	6 GHz	8 GHz
WAVASORB® CV-3	-13 dB	-24 dB	-26 dB	-38 dB
WAVASORB® CV-4	-17 dB	-28 dB	-38 dB	-40 dB
WAVASORB® CV-6	-23 dB	-55 dB	-56 dB	-52 dB

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Specifications subject to change without notice. ECAC 04/2024

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Safety Considerations: It is recommended to consult the E&C ANECHOIC CHAMBERS product literature, including material safety data sheets, prior to use E&C ANECHOIC CHAMBERS products. These may be obtained from your local sales office.

Warranty: Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use. We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.