

# WAVASORB® VX

*Advanced Broadband Truncated Pyramidal Absorber*

WITH RESPECT FOR THE ENVIRONMENT: REACH & RoHS COMPLIANT



- ✓ WAVASORB® VX is a series of solid, truncated, pyramidal shaped, carbon-loaded urethane foam absorbers.
- ✓ Premium performance in the operating frequency range from 80 MHz to 40 GHz, obtained by optimization of the geometry of each individual absorber.
- ✓ Certified to fire-retardancy and environmental specifications through containing an advanced chemical composition.
- ✓ Excellent power-handling capability assured under continuous wave exposure.
- ✓ Designed and quality controlled using commercial and original test techniques.

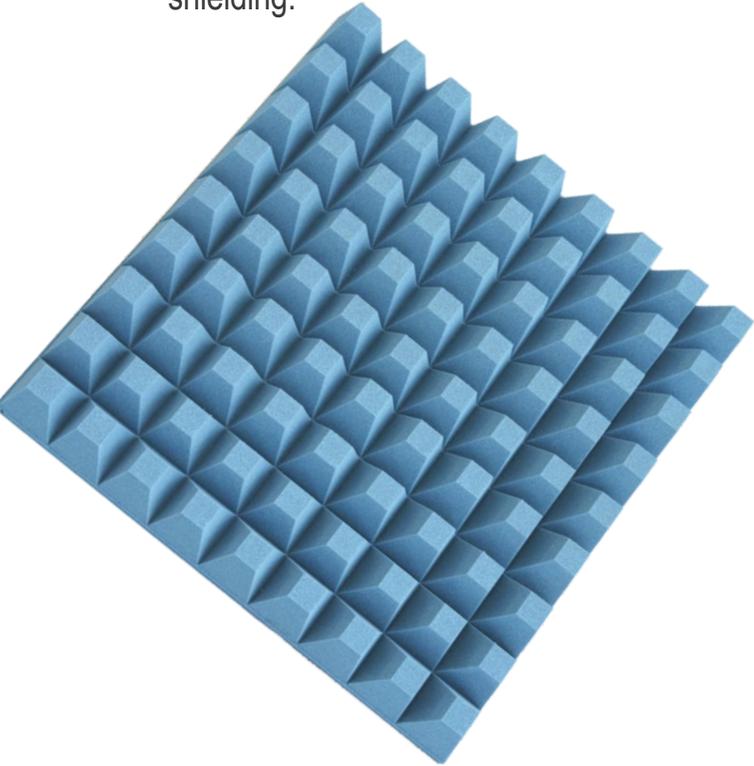
# WAVASORB® VX



## Installation Methods

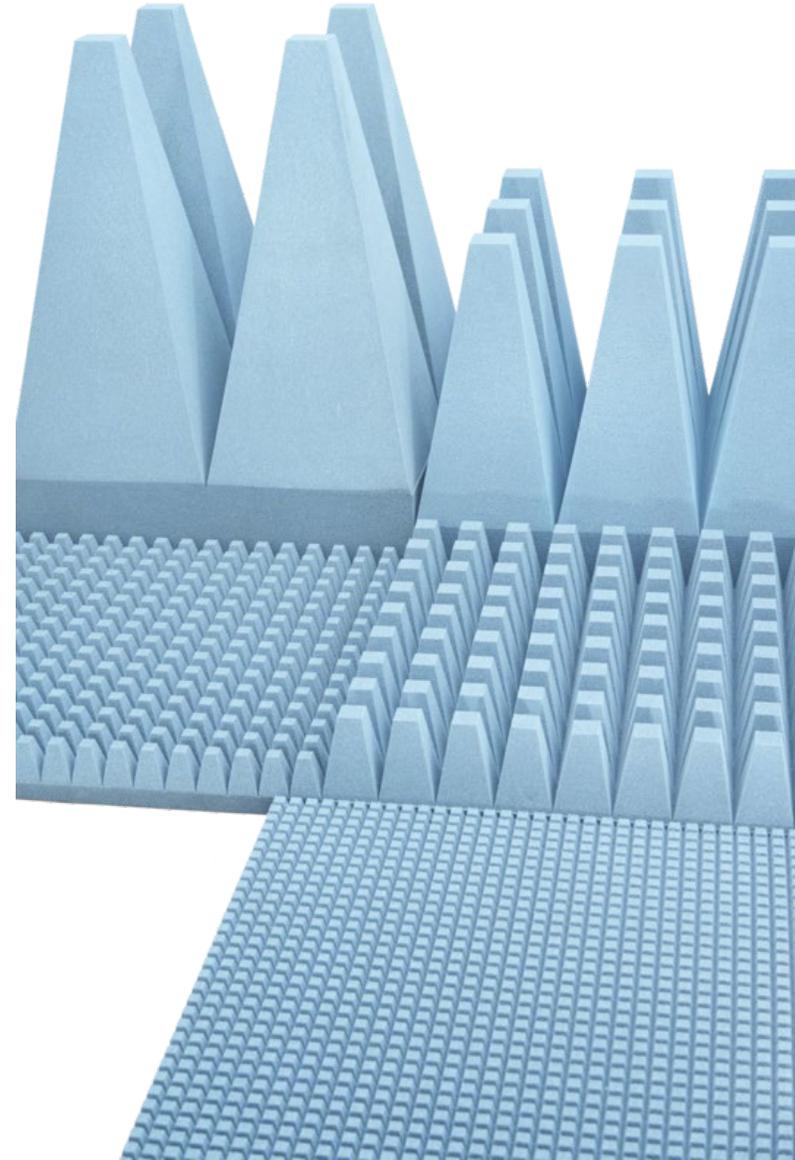
WAVASORB® VX is typically bonded to metallic surfaces using E&C Adhesive 13111.

For easy exchange, modular installation techniques are available using Plate & Rail mounting to achieve perfect geometry and alignment compatibility with any type of shielding.



## Applications & Chamber Validation

WAVASORB® VX offers excellent performance starting from 80 MHz and is optimal for use in chambers which have to comply with MIL-STD-462 standard.



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## Characteristics

Handling Temperature	+5°C to +35°C
Humidity Range	30% to 70%
Frequency Range	80 MHz up to 40 GHz
Maximum Incident Power Density <sup>(1)</sup>	1,5 kW/m <sup>2</sup> , 0,98 W/in <sup>2</sup> , 750 V/m
Fire Retardancy Tests	According to: - UL-94-HBF - EN 13501-1 Class E; ISO 11925-2 - ISO 4589-2 - DIN 4102-1 Class B2 - NRL 8093 Tests 1, 2 and 3
Environmental Testing	Compliant with: - IEC 60068-2-1 Test Ab - 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

<sup>(1)</sup> Depending on duration & frequency; for more information, contact your sales representative

## Physical properties

	Standard Color <sup>(1)</sup>	Standard footprint
WAVASORB® VX	Light blue	61 cm x 61 cm

<sup>(1)</sup> Contrast colours available on request

	Total height <sup>(1)</sup> (cm)	Average weight (kg)	Number of pyramids per piece
WAVASORB® VX-1	3,3	1,0	1.024
WAVASORB® VX-3	7,6	1,9	256
WAVASORB® VX-5	12,7	2,6	81
WAVASORB® VX-20	50,8	6,1	9
WAVASORB® VX-30	76,2	8,7	4

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

Multiple variables go with our WAVASORB® VX-absorbers, e.g. plastic coating, painting/coating colours, ...  
For more information, contact your sales representative.

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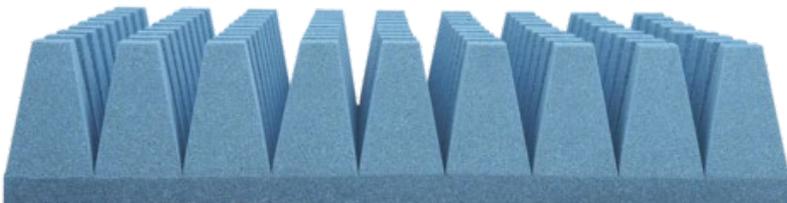
## Typical Reflectivity Performance at Normal Incidence & Measurement Techniques

WAVASORB® VX is manufactured in well-defined batches and their reflectivity and fire-retardant properties are continuously monitored following internal ISO 9001 procedures. The intrinsic material parameters are measured with state-of-the-art test set ups and optimized using software.

WAVASORB® VX is tested routinely in-house in the frequency range from 30 MHz to 9 GHz using a set of coaxial lines, waveguides and NRL Arch in accordance with the practice recommended in IEEE Standard 1128. In the high-frequency range, measurements are performed in the frequency range of 9 GHz up to 40 GHz inside a compact range facility of an external test house.

Furthermore, WAVASORB® VX offers favourable reflectivity properties at off normal angles of incidence with almost no reflectivity degradation up to 45 degrees.

	TYPICAL REFLECTIVITY (dB)											
	80 MHz	100 MHz	200 MHz	300 MHz	500 MHz	800 MHz	1 GHz	3 GHz	6 GHz	12 GHz	18 GHz	40 GHz
WAVASORB® VX-1								- 10 dB	- 15 dB	- 20 dB	- 20 dB	- 20 dB
WAVASORB® VX-3							- 13 dB	- 20 dB	- 22 dB	- 22 dB	- 22 dB	- 22 dB
WAVASORB® VX-5				- 5 dB	- 10 dB	- 15 dB	- 18 dB	- 20 dB	- 25 dB	- 25 dB	- 25 dB	- 25 dB
WAVASORB® VX-20	- 6 dB	- 10 dB	- 20 dB	- 20 dB	- 25 dB	- 28 dB	- 30 dB	- 30 dB	- 40 dB	- 40 dB	- 40 dB	- 40 dB
WAVASORB® VX-30	- 10 dB	- 13 dB	- 20 dB	- 25 dB	- 30 dB	- 32 dB	- 35 dB	- 40 dB				



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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.

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