

# WAVASORB® VHP-OD

Advanced Broadband Pyramidal Outdoor Absorber

- WAVASORB® VHP-OD is a series of solid, pyramidal-shaped, outdoor absorbers.
- WAVASORB® VHP-OD is designed from our standard pyramidal polyurethane foam absorber as the base product.
- A low loss unloaded polyurethane foam is matched to the absorber, producing a rectangular shape after which the mating absorber 'block' is wrapped with a PVC cover and sealed.
- These materials can withstand UV and very harsh weather conditions.
- Excellent power-handling capability assured under continuous wave exposure.
- REACH-and RoHS-compliant, maintaining a healthy environment for operation.
- Designed and quality controlled using commercial and original simulating test techniques.

## Installation & storage methods

WAVASORB® VHP-OD is typically bonded to metallic surfaces using WAVASORB® Adhesive.

For easy exchange, modular installation techniques are available using velcro-fasteners or plate & rail mounting to achieve perfect geometry and alignment.

For flat ground applications, the absorber can be foreseen either with 5 polyethylene jars, in order to have the absorber stand a little bit from the ground or with 4 ball transfer units for quick and easy removal.

Storing the material in a covered area when not in use can increase life expectancy.

## Applications

**WAVASORB® VHP-OD is the preferred solution for outdoor applications.**

Each WAVASORB® VHP-OD absorber has a special high-quality quick-drying batch material to protect the absorber from all kinds of weather conditions., wheter it is rain or sunshine.

**For more information, contact your sales representative.**



With respect for the environment





## Characteristics

<b>Handling temperature</b>	-20°C to +70°C
<b>Power handling<sup>(1)</sup></b>	800 kW/m²
<b>REACH compliant</b>	According to EC 1907/2006
<b>RoHS compliant</b>	According to 2015/863/EU
<b>Quality control</b>	IEEE Standard 1128 ISO 9001
<b>Product life</b>	+5 years depending on the local environmental conditions

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

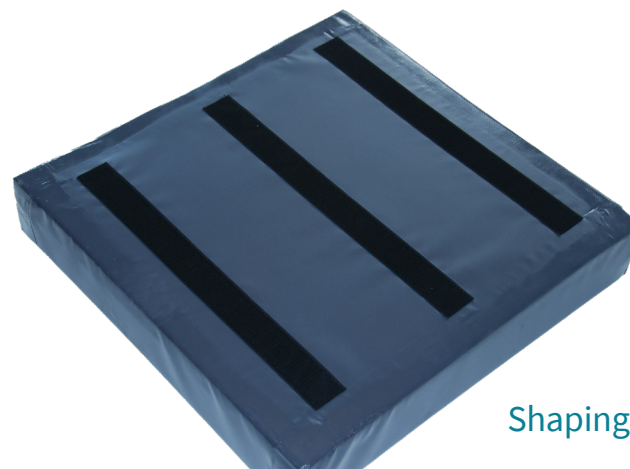
## Physical properties

	Standard color	Standard footprint <sup>(1)</sup>
<b>WAVASORB® VHP-OD</b>	Dark grey	61 cm x 61 cm

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

	Total height <sup>(1)</sup> (cm)	Number of pyramids per piece
<b>WAVASORB® VHP-4 OD</b>	19,3	256
<b>WAVASORB® VHP-8 OD</b>	29,4	81
<b>WAVASORB® VHP-12 OD</b>	39,6	36
<b>WAVASORB® VHP-18 OD</b>	54,8	16
<b>WAVASORB® VHP-26 OD</b>	75,2	9
<b>WAVASORB® VHP-36 OD</b>	100,5	4

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



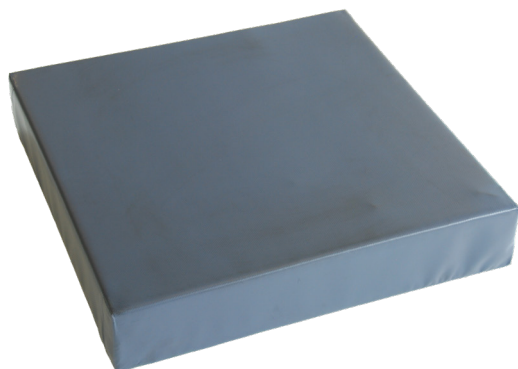
## Typical reflectivity performance at normal incidence & measurement techniques

WAVASORB® VHP-OD is manufactured in well-defined batches and their reflectivity and fire-retardant properties are continuously monitored following internal ISO 9001 procedure.

WAVASORB® VHP-OD is tested routinely in-house in the frequency range from 10 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 110 GHz inside a compact range facility of an external test house.

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

	TYPICAL REFLECTIVITY (dB)							
	200 MHz	3000 MHz	450 MHz	1 GHz	3 GHz	5 GHz	9 GHz	> 10 GHz
<b>WAVASORB® VHP-4 OD</b>					-30 dB	-30 dB	-35 dB	-40 dB
<b>WAVASORB® VHP-8 OD</b>				-30 dB	-40 dB	-40 dB	-40 dB	-45 dB
<b>WAVASORB® VHP-12 OD</b>			-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB
<b>WAVASORB® VHP-18 OD</b>			-30 dB	-40 dB	-45 dB	-45 dB	-45 dB	-45 dB
<b>WAVASORB® VHP-26 OD</b>		-25 dB	-35 dB	-40 dB	-45 dB	-45 dB	-45 dB	-45 dB
<b>WAVASORB® VHP-36 OD</b>	-20 dB	-30 dB	-35 dB	-45 dB	-45 dB	-45 dB	-45 dB	-45 dB





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Specifications subject to change without notice. ECAC 04/2024

**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.