

# WAVASORB® VHP-FL

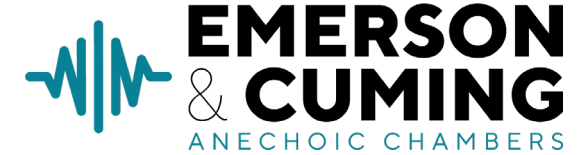
*Advanced Broadband Walkable Absorber*

WITH RESPECT FOR THE ENVIRONMENT: REACH & RoHS COMPLIANT



- ✓ WAVASORB® VHP FL is a series of walkable, rectangular-shaped, carbon-loaded, urethane-foam absorbers.
- ✓ High load-bearing capacity of 200 kg/m<sup>2</sup> by encapsulating a WAVASORB® VHP-absorber in a solid, low-density polyurethane counterpart.
- ✓ Special coating on top for electrostatic discharge (avoiding damage to Network Analyzers, ...).
- ✓ Mechanically stable construction for 'safe' walking on the walkway.
- ✓ Designed and quality controlled using commercial and original simulating and test techniques.

# WAVASORB® VHP-FL



## Manufacturing & Installation Methods

WAVASORB® VHP-FL is:

- ✓ made from a rigid low-density polyurethane counterpart, transforming WAVASORB® VHP into a robust walkable version, available in different grades to provide ample access to the equipment.
- ✓ placed on the floor without additional fixations, whilst ensuring stability.
- ✓ manufactured in well-defined batches and their reflectivity and fire-retardant properties are monitored following internal ISO 9001 procedure.

To improve the wear characteristics, there is an additional laminate of polyethylene on top and all sides.



## Applications

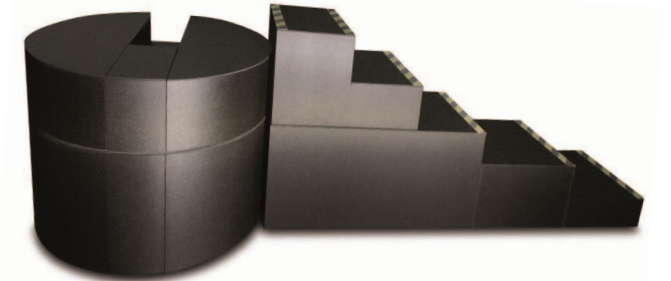
WAVASORB® VHP-FL is the preferred solution

\* to provide easy access to antennas and equipment under test in:

- ✓ Far-Field & Near-Field facilities;
- ✓ Compact Antenna test ranges;
- ✓ Radar Cross Section (RCS) facilities;
- ✓ Electronic Warfare (EW) test ranges;
- ✓ Wireless Over-The-Air (OTA) measurement systems.

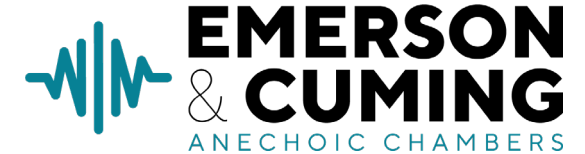
\* for use in specific areas of the floor in anechoic chambers in order to minimize their impact on the quiet-zone performance.

\* for various floor configurations.



*Customized designs in different sizes and shapes go with our WAVASORB® VHP-FL absorbers, e.g. stairs and circular pieces to cover turntables.  
For more information on variables, contact your local sales representative.*

# WAVASORB® VHP-FL



## Characteristics

<b>Handling Temperature</b>	+5°C to +35°C
<b>Humidity Range</b>	30% to 70%
<b>Load-bearing Capacity</b>	200 kg/m <sup>2</sup>
<b>Frequency range<sup>(1)</sup></b>	1,35 GHz to 9 GHz
<b>Fire Retardancy Tests</b>	According to: - DIN 4102-1 Class B2
<b>Environmental Testing</b>	Compliant with: - IEC 60068-2-1 Test Ab - AATCC 30-IV (2004)
<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>	+10 years under controlled environment

<sup>(1)</sup> Higher frequencies possible; contact your local sales representative for more info

## Physical properties

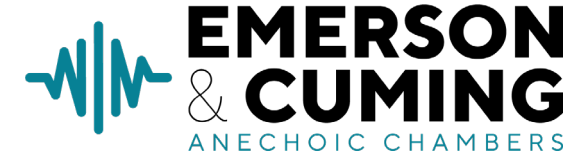
	Standard Color	Standard footprint
<b>WAVASORB® VHP-FL</b>	Black	122 cm x 61 cm

	Total height <sup>(1)</sup> (cm)	Nominal weight <sup>(2)</sup> (kg)
<b>WAVASORB® VHP-FL 2</b>	15	8
<b>WAVASORB® VHP-FL 4</b>	18	10
<b>WAVASORB® VHP-FL 8</b>	26	12
<b>WAVASORB® VHP-FL 12</b>	37	17
<b>WAVASORB® VHP-FL 18</b>	54	24
<b>WAVASORB® VHP-FL 26</b>	74	30
<b>WAVASORB® VHP-FL 36</b>	99	39

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

<sup>(2)</sup> Weight values are subject to changes

# WAVASORB® VHP-FL

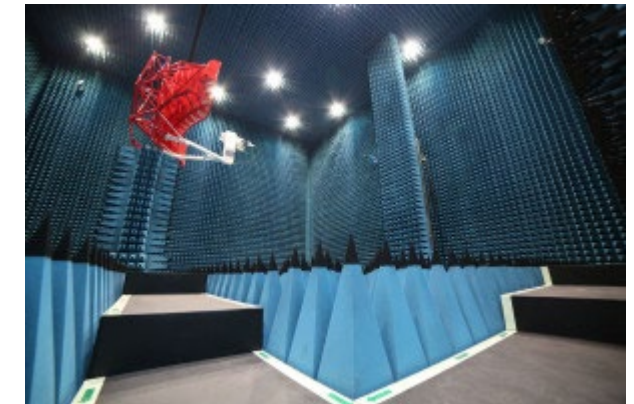
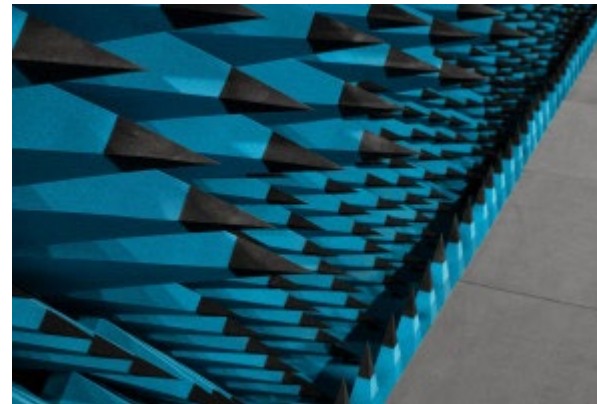


## Typical Reflectivity Performance at Normal & Off Normal Angle of Incidence & Measurement Techniques

WAVASORB® VHP-FL is tested routinely in-house in the frequency range from 1,35 GHz to 9 GHz using an NRL Arch in accordance with the practice recommended in IEEE Standard 1128.

The reflectivity of a particular grade of WAVASORB® VHP-FL corresponds to that of the initial WAVASORB® VHP, in such a way where the performance will vary by typically 10-15 dB in the range 1-3 GHz and 20-25 dB in the range 3-9 GHz. For different grades, the high frequency reflectivity is limited to approximately - 25 dB.

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



*Picture was taken from TÜBITAK GEBZE FACILITIES*

■  
E&C Anechoic Chambers nv  
Nijverheidsstraat 7A  
B-2260 Westerlo  
Belgium

Tel.: +32 14 59 58 00

[sales@ecac.be](mailto:sales@ecac.be)  
[www.ecac.be](http://www.ecac.be)

■  
Albatross Projects RF Technology  
India Pvt. Ltd  
312, Siddhraj Zori, Near Sargasan Cross, KH-0,  
Off S.G. Highway  
Gandhinagar, 382421  
India

Tel.: +91 97 3737 9537  
Fax: +91 79 2975 0780

[info@albatross-projects.in](mailto:info@albatross-projects.in)  
[www.albatross-projects.in](http://www.albatross-projects.in)

■  
E&C Anechoic Chambers Asia Ltd.  
7K King Palace Plaza,  
55 King Yip Street, Kwun Tong  
Kowloon, Hong Kong

Tel.: +852 3975 9871

[asia-sales@ecac.be](mailto:asia-sales@ecac.be)  
[www.ecac.be](http://www.ecac.be)

■  
Albatross Projects RF Technology  
(Shanghai) Co., Ltd.  
Block 35, No. 100 Baise Road  
Inside Grand Skylight Gardens Hotel  
200231 Shanghai  
P.R. China

Tel.: +86 21 6434 1110  
Fax: +86 21 6434 7800

[info@albatross-projects.com.cn](mailto:info@albatross-projects.com.cn)  
[www.albatross-projects.com.cn](http://www.albatross-projects.com.cn)

■  
Albatross Projects GmbH  
Daimlerstrasse 17  
89564 Nattheim  
Germany

Tel.: +49 7321 730 500  
Fax: +49 7321 730 590

[info@albatross-projects.com](mailto:info@albatross-projects.com)  
[www.albatross-projects.com](http://www.albatross-projects.com)

■  
AP Americas Inc.  
3101 Skyway Circle N.  
75038 Irving, Texas  
USA

Tel.: +1 972 295 9100  
Fax: +1 972 810 3223

[info@apamericas.com](mailto:info@apamericas.com)  
[www.apamericas.com](http://www.apamericas.com)

Shaping  
  
the future



[www.ecac.be](http://www.ecac.be)

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.