EMERSON & CUMING
ANECHOIC CHAMBERS

WAVASORB® VHP-FL

Advanced Broadband Walkable Absorber

- ✓ WAVASORB® VHP FL is a series of walkable, rectangular-shaped, carbon-loaded, urethane-foam absorbers.
- ✓ High load-bearing capacity of 200 kg/m² 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.

WITH RESPECT FOR THE ENVIRONMENT: REACH & RoHS COMPLIANT

REACH COMPLIANCE

RoHS

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

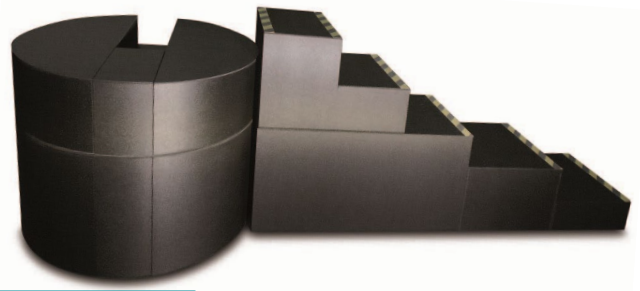
WAVASORB® VHP-FL is the preferred solution

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

- ✓ Far-Field & Near-Field facilities;
- ✓ Compact Antenna test ranges;
- ✓ Rader 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

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Characteristics

Handling Temperature	+5°C to +35°C
Humidity Range	30% to 70%
Load-bearing Capacity	200 kg/m²
Frequency range(1)	1,35 GHz to 9 GHz
Fire Retardancy Tests	According to: - DIN 4102-1 Class B2
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	+10 years under controlled environment

(1) Higher frequencies possible; contact your local sales representative for more info

Physical properties

	Standard Color	Standard footprint
WAVASORB® VHP-FL	Black	122 cm x 61 cm

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

(1) The above-mentioned dimensions have a tolerance of +/- 6 mm
(2) Weight values are subject to changes

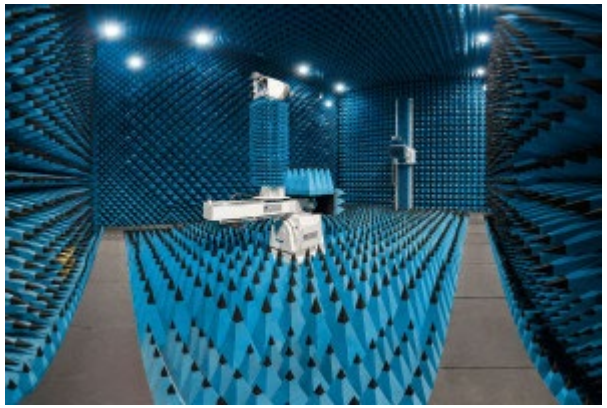
WAVASORB® VHP-FL

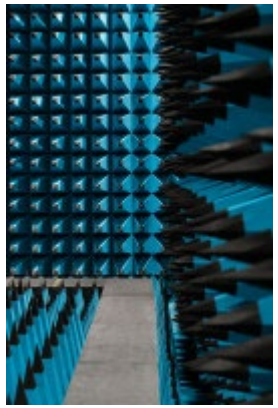
Typical Reflectivity Performance at Normal & Off Normal Angle of Incidence & Measurement Techniques

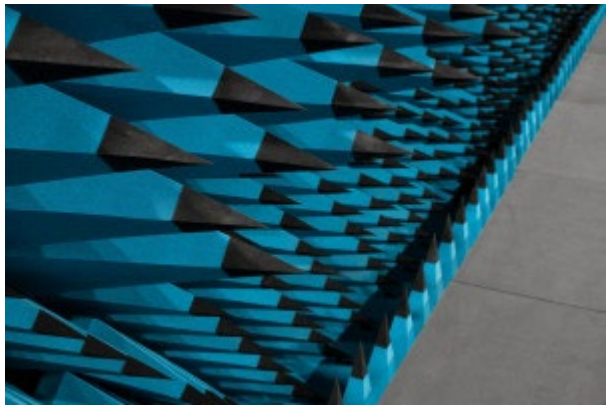
WAVASORB® VHP-FL is tested routinely in-house in the frequency range from 1,35 GHz to 9 GHz using an NRL Arch in accordance with the practice recommended in IEEE Standard 1128.

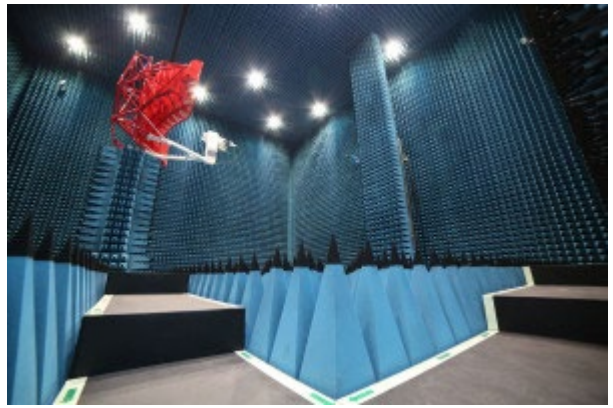
The reflectivity of a particular grade of WAVASORB® VHP-FL corresponds to that of the initial WAVASORB® VHP, in such a way where the performance will vary by typically 10-15 dB in the range 1-3 GHz and 20-25 dB in the range 3-9 GHz. For different grades, the high frequency reflectivity is limited to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

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