

# WAVASORB<sup>®</sup> HHP

Advanced Broadband Hollow Pyramidal Absorber

#### WITH RESPECT FOR THE ENVIRONMENT: REACH & RoHS COMPLIANT



- ✓ WAVASORB<sup>®</sup> HHP-60 is lightweight carbon-loaded polyurethane foam absorber because of its hollow, pyramidal shape
- The thick walls of the pyramid together with their tapered design, provides impedance matching over a wide frequency band
- Premium performance in the operating frequency range, starting at low frequencies, as of 60 MHz to 40 GHz, obtained by optimization of the geometry of the individual absorber
- Excellent power-handling capability assured under continuous wave exposure
- Certified to fire-retardancy and environmental specifications through containing an advanced chemical composition
- Designed and quality controlled using commercial and original simulating test techniques

## WAVASORB® HHP

#### Installation Methods and Chamber Validation

WAVASORB® HHP-60 is typically bonded using a modular installation technique called 'plate & rail mounting' to achieve a perfect geometry and alignment, compatible with any type of shielding.

E&C Anechoic Chambers has developed VSWR Field-Probe measurement techniques for anechoic chamber validation, verifying the chamber performance at the system level.



### Applications

WAVASORB® HHP is the preferred solution for the anechoic chamber lining of:

- ✓ 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.



Multiple variables go with our WAVASORB® HHP-60 absorber, e.g. plastic coating, painting/coating colours, ... For more information on variables, contact your sales representative

## WAVASORB® HHP



### Characteristics

Handling Temperature(1)+5°C to +35°CHumidity Range30% to 70%Frequency Range60 MHz up to 40 GHzMaximum Incident Power Density(2)1.5 kW/m², 0,98 W/in², 750 V/mFire Retardancy TestsAccording to: - UL-94-HBF - ISO 4589-2 - ISO 11925-2 Class E - DIN 4102-1 Class B2 - NRL 8093 Tests 1, 2 and 3Environmental TestingCompliant with: - IEC 60068-2-1 Test Ab
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- 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 the application, the absorber can withstand temperatures of +90°C, for more information, contact your sales representative

<sup>(2)</sup> Depending on duration & frequency, for more information, contact your sales representative

## Physical properties

WAVASORB® HHP-60	Standard Color <sup>(1)</sup> Light blue with black tip	Standard footprint <sup>(2)</sup> 61 cm x 61 cm	
<ul> <li><sup>(1)</sup> Contrast colours available on request</li> <li><sup>(2)</sup> Without backing plate; the above-mer</li> </ul>		of +/- 6 mm	
	Total height <sup>(1)</sup> (cm)	Average weight <sup>(2)</sup> (kg)	Number of pyramids per piece
WAVASORB® HHP-60	152,4	15,0	1
		1344	

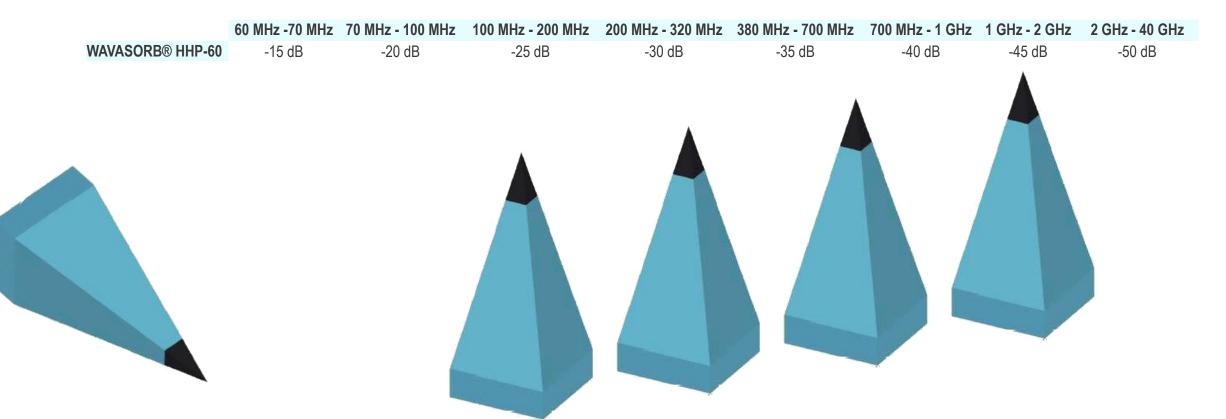
## WAVASORB® HHP



#### Typical Reflectivity Performance at Normal Incidence & Measurement Techniques

WAVASORB® HHP-60 is manufactured in well-defined batches and their reflectivity and fire-retardant properties are continuously monitored following internal ISO 9001 procedure.

WAVASORB® HHP-60 is tested routinely in-house in the frequency range from 60 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. Furthermore, WAVASORB® HHP-60 offers favourable reflectivity properties at off normal angles of incidence with almost no reflectivity degradation up to 45 degrees.





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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.