

## SIEPEL ELECTROMAGNETIC ABSORBER HIGH POWER



### CUSTOMER'S BENEFITS

SEA-HP absorbers are designed to line specific areas subject to high power densities, in applications such as Telecom / Wireless, Satellite, Automotive, Military, etc...

Thanks to their specific open structure, they can withstand high temperatures due to the high field strengths.

- Guarantee of 25 years for the RF performances of our absorbers
- Long-lasting investment
- Control of performances during the manufacturing process

### CHARACTERISTICS

- Maximum service temperatures: -65°C to +200°C
- Maximum power handling: 15kW/m<sup>2</sup>, can be increased with forced ventilation
- Colours: black (unpainted)
- Installation method: can be glued on any flat and clean surface or fixed on rails
- Matrix: hollow-based honeycomb

### COMPLIANCE TO STANDARDS & DIRECTIVES

- Fire retardancy : compliant to DIN 4102-B2, ISO 11925-2 Euroclass E, UL-94/HBF
- Environmental : RoHS compliant according to 2011/65/EU/ REACH compliant according to EC 1907/2006 : environmental tests compliant to standards (ISO/EN60068-2-78)

### REFLECTIVITY PERFORMANCES

- Values in dB at normal incidence
- These reflectivity performances are guaranteed for 25 years
- They are the result of an extensive experience in the manufacturing of electromagnetic absorbers

TYPE	300 MHz	500 MHz	1 GHz	2 GHz	4 GHz	8 GHz	12 GHz	18 GHz	40 GHz
SEA-HP 9			- 15	- 17	- 27	- 30	- 32	- 37	- 25
SEA-HP 12			- 15	- 25	- 30	- 40	- 40	- 40	- 36
SEA-HP 20			- 25	- 30	- 35	- 40	- 40	- 43	- 36
SEA-HP 30			- 30	- 35	- 40	- 40	- 40	- 43	- 36
SEA-HP 45		- 27	- 33	- 36	- 45	- 40	- 40	- 43	- 36
SEA-HP 60	- 20	- 35	- 36	- 43	- 46	- 42	- 45	- 48	- 36
SEA-HP 90	- 25	- 30	- 45	- 45	- 46	- 50	- 50	- 49	- 40

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## ■ DIMENSIONAL PROPERTIES

TYPE	TOTAL HEIGHT		PYRAMIDS HEIGHT		BASE HEIGHT		PYRAMIDS/ ABSORBER	WEIGHT	
	mm	in	mm	in	mm	in		kg	Lb
SEA-HP 9*	<b>89</b>	3.50	<b>69</b>	2.72	<b>20</b>	0.79	16x16	<b>1</b>	2.20
SEA-HP 12*	<b>115</b>	4.53	<b>90</b>	3.54	<b>25</b>	0.98	16x16	<b>1.3</b>	2.87
SEA-HP 20*	<b>210</b>	8.27	<b>180</b>	7.08	<b>30</b>	1.18	9x9	<b>2.2</b>	4.85
SEA-HP 30*	<b>290</b>	11.42	<b>260</b>	10.23	<b>30</b>	1.18	6x6	<b>3.2</b>	7.06
SEA-HP 45*	<b>439</b>	17.28	<b>397</b>	15.63	<b>42</b>	1.65	4x4	<b>4.2</b>	9.27
SEA-HP 60**	<b>600</b>	23.62	<b>555</b>	21.85	<b>45</b>	1.77	1x1	<b>0.9</b>	2
SEA-HP 90**	<b>900</b>	35.43	<b>855</b>	33.66	<b>45</b>	1.77	1x1	<b>1.6</b>	3.53

\*Base size 610 x 610 mm (24" x 24") \*\*Base size 305 x 305 mm (12" x 12") – Typical dimensions and weights

## ■ SIEPEL BY YOUR SIDE

- Your project under control : managed by our in-house design & manufacturing business units
- Engineering capabilities for the standard or custom design of anechoic chambers according to your request
- Commitment on outstanding finishes
- Installation performed by our highly qualified supervisors
- Significant number of unique projects for demanding and prestigious customers worldwide
- Project management capabilities and customer proximity during the product's lifetime



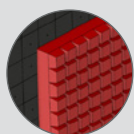
## QUALITY

- Siepel aims to deliver to its customers a high-level of quality for all products and services
- Thanks to an ISO 9001/ISO 17025 quality management system, our company continuously focuses on customer satisfaction and excellence
- Siepel fulfills environmental obligations as REACH and RoHS directives, as well as other current regulations

## IN-HOUSE TESTING

- Reflectivity performances factory-controlled as per IEEE standard 1128
- Factory Acceptance Tests (FAT): Reflectivity measurements from 30 MHz to 50 GHz

## AN EXTENSIVE RANGE OF EMC &amp; MICROWAVE ABSORBERS



Hybrids  
SEA-HY & HYT



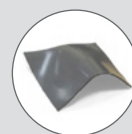
Weatherproof  
SEA-WP



Walkway  
SEA-WW



Microwave  
SEA-PM & TM



Elastomeric  
SEA-ELS & ELP