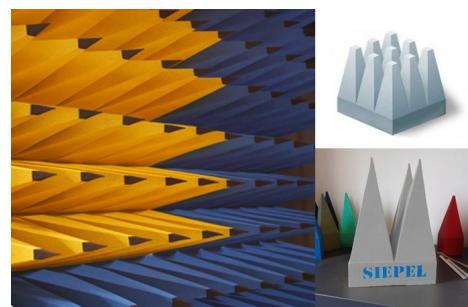




SEA-PM & TM

SIEPEL ELECTROMAGNETIC ABSORBER
PYRAMIDAL & TRUNCATED MICROWAVE



CUSTOMER'S BENEFITS

SEA-PM / TM is a premium series of broadband high-end pyramidal absorbers.

This new generation is used for the lining of anechoic chambers for EMC & antenna measurements (compact ranges, Radar Cross Section (RCS), Over-The-Air (OTA), IoT, 5G...)

- Long-lasting investment
- High performance at optimal cost
- Easy personalisation with a wide range of colours
- Fast delivery, commercially available off-the-shelves

CHARACTERISTICS

- Extended reflectivity values up to 110 GHz
- High-quality foam
- Maximum power handling :
 - SEA-PM : 2 kW/m² CW
 - SEA-TM : 1.7 kW/m² CW
- Maximum temperature: +160°C / 320°F
- Indoor use

LIV COATING ADVANTAGES

- **This technological breakthrough in absorbers coating provides**
 - Softness and memory shape: no need to replace your absorbers on high traffic areas
 - Sturdiness: improved mechanical strength, no premature breakdown
 - Aesthetic: brighter working environment
- A wide range of colours is available for a customized design

COMPLIANCE TO STANDARDS & DIRECTIVES

- Fire retardancy: compliant to NRL 8093 (tests 1, 2, 3), 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/EN60068-2-1 & ISO/EN60068-2-78)
- Cleanroom conditions: Class ISO 4 according to ISO 14644-1; test methodology according to ISO 14644-14



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	80 MHz	200 MHz	300 MHz	500 MHz	800 MHz	900 MHz	1 GHz	2 GHz	4 GHz	8 GHz	12 GHz	18 GHz	40 GHz	75 GHz	110 GHz
SEA-PM 3									-20	-20	-22	25	-30	-36	-45
SEA-PM 5								-20	-21	-25	-31	-37	-38	-50	-50
SEA-PM 12							-19	-25	-33	-40	-43	-50	-50	-50	-50
SEA-PM 20			-8	-13	-21	-23	-25	-36	-45	-46	-50	-51	-50	-50	-50
SEA-PM 30			-12	-25	-31	-33	-36	-40	-48	-52	-52	-51	-50	-50	-50
SEA-PM 45			-22	-27	-35	-37	-40	-42	-50	-52	-52	-51	-50	-50	-50
SEA-TM 50	-6	-20	-21	-25	-25	-25	-26	-27	-27	-27	-27	-30	-30	N/A	N/A
SEA-PM 66	-6	-21	-24	-37	-41	-43	-45	-46	-52	-52	-52	-51	-50	-50	-50
SEA-PM 85	-10	-25	-28	-42	-46	-47	-49	-50	-52	-52	-52	-51	-50	-50	-50
SEA-PM 100	-11	-26	-36	-45	-48	-49	-50	-52	-52	-52	-52	-51	-50	-50	-50
SEA-PM 115	-13	-26	-36	-45	-48	-49	-50	-52	-52	-52	-52	-51	-50	-50	-50

SIEPEL ELECTROMAGNETIC ABSORBER PYRAMIDAL & TRUNCATED MICROWAVE

DIMENSIONAL PROPERTIES

TYPE	OVERALL HEIGHT		PYRAMIDS PER ABSORBERS	WEIGHT		TIPS (for LIV coating only)
	mm	in		kg	lb	
SEA-PM 3*	28	1.1"	33x33	0.3	0.66	N/A
SEA-PM 5*	55	2.2"	33x33	0.6	1.32	N/A
SEA-PM 12*	115	4.5"	16x16	1.2	2.65	Painted
SEA-PM 20*	210	8.3"	9x9	2.0	4.41	Painted
SEA-PM 30*	305	12"	6x6	2.6	5.73	Painted
SEA-PM 45*	455	18"	4x4	3.6	7.94	Painted
SEA-TM 50*	500	20"	3x3	4.3	9.48	N/A
SEA-PM 66*	660	26"	3x3	5.1	11.24	Black
SEA-PM 85**	850	33.5"	1	1.6	3.53	Black
SEA-PM 100**	1000	39.4"	1	1.8	3.97	Black
SEA-PM 115**	1150	43.3"	1	2.1	4.63	Black

* Base size 610 x 610 mm - 24" x 24"

** Base size 305 x 305 mm - 12" x 12"

Typical dimensions and weights

N/A : LIV coating not applicable for these references

SIEPEL BY YOUR SIDE

- Your project under control: managed by our in-house design & manufacturing business units
- 50 employees allocated to value-added business units: R&D, design, scheduling, drawing, manufacturing, testing, crating, logistics, installation, service ...
- 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



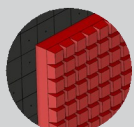
QUALITY

- 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

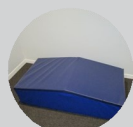
IN-HOUSE TESTING

- Quality controls performed as per IEEE standard 1128
- SEA absorbers are tested in Siepel's internal fire test lab as well as in independent test laboratories
- Reflectivity performances factory controlled, using cutting edge broadband equipment
- Factory Acceptance Tests (FAT): Reflectivity measurements from 30 MHz to 50 GHz

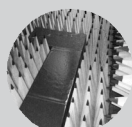
AN EXTENSIVE RANGE OF EMC & MICROWAVE ABSORBERS



Hybrids
SEA-HY & HYT



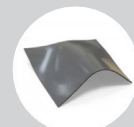
Weatherproof
SEA-WP



Walkway
SEA-WW



High power
SEA-HP



Elastomeric
SEA-ELS & ELP