

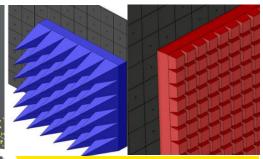
SIEPEL ELECTROMAGNETIC ABSORBER **HYBRID PYRAMIDAL & TRUNCATED**

SEA-HY are premium hybrid pyramidal or truncated absorbers aimed to be combined with ferrite absorbers.

Purpose: lining of EMC anechoic chambers used for industrial (CISPR16-1-4, CISPR25), and defense testing (DO-160 & MIL-STD-461).

They are also used to perform radio tests (ETSI standards).

SEA-HY can be installed to upgrade or refurbish existing chambers.



CUSTOMER'S BENEFITS

- Long-lasting investment
- High performance at optimal cost
- Fast delivery, commercially available off-the-shelves
- Modular installation with a smart rail system
- Simple dismantling during a relocation or upgrade
- Personalisation with a wide range ofcolours

CHARACTERISTICS

- Broadband frequency range 30 MHz 40 GHz
- Pyramidal foam absorbers are installed on ferrite panels (optional)
- 3 categories: regular pyramidal absorbers (HY) and 2 types of truncated tips: HYT, equivalent to HY with cut tips to save space & HYT+ with an adapted carbon load for better performances in high frequencies
- Maximum power handling: 2 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 trafic 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 for the combination of ferrites and pyramidal hybrid and truncated absorbers
- These reflectivity performances are guaranteed for 25 years
- They are the result of an extensive experience in the manufacturing of electromagnetic absorbers.

	ТҮРЕ	30 MHz	50 MHz	80 MHz	100 MHz	200 MHz	300 MHz	500 MHz	1 GHz	2 GHz	4 GHz	8 GHz	12 GHz	18 GHz	40 GHz
HYBRID	HY 30	-19	-20	-20	-18	-16	-14	-13	-13	-11	-11	-14	-15	-20	-24
	HY 45	-19	-20	-20	-19	-16	-15	-15	-15	-13	-16	-18	-19	-22	-24
HYBRID TRUNCATED	HYT 20	-19	-20	-21	-20	-16	-14	-10	-10	-9	-8	-9	-9	-11	-15
	HYT 30	-19	-20	-20	-18	-16	-14	-13	-11	-10	-10	-12	-12	-20	-20
	HYT 45	-19	-20	-17	-17	-16	-15	-15	-15	-13	-15	-17	-19	-24	-22
	HYT 60	-18	-20	-19	-18	-16	-17	-16	-16	-14	-17	-20	-23	-25	-25
	HYT 20+	-18	-19	-20	-19	-15	-14	-11	-11	-10	-10	-10	-10	-12	-16
	HYT 30+	-18	-19	-20	-18	-16	-15	-14	-13	-13	-14	-15	-15	-24	-25
	HYT 45+	-18	-18	-17	-17	-15	-15	-15	-16	-15	-20	-23	-24	-27	-27
	HYT 60+	-16	-15	-15	-15	-15	-17	-17	-20	-20	-25	-28	-28	-35	-35

SIEPEL ELECTROMAGNETIC ABSORBER HYBRID PYRAMIDAL & TRUNCATED

DIMENSIONAL PROPERTIES

	TYPE	OVERALL HEIGHT		ABSORBER HEIGHT		PYRAMIC	HEIGHT	BASE H	HEIGHT	WEIGHT		
		mm*	In*	mm	In	mm	In	mm*	In*	kg*	lb	
HYBRID	HY 30	313	12.3"	305	12"	245	9.7"	68	2.7''	17.5	38.6	
	HY 45	463	18.2"	455	18''	380	15''	83	3.3"	19	41.9	
HYBRID TRUNCATED	HYT 20/+	108	4.3"	100	3.9"	45	1.8"	63	2.5"	17	37.5	
	HYT 30/+	208	8.2"	200	7.9''	140	5.5"	68	2.7"	17.5	38.6	
	HYT 45/+	358	14.1"	350	13.8''	275	10.8"	83	3.3"	18.4	40.6	
	HYT 60/+	508	20"	500	19.7''	400	15.8"	108	4.3''	19.5	43	

*including ferrite tiles

Base size 605 x 605 mm - 23.8" x 23.8" - Typical dimensions and weights



MODULAR INSTALLATION

- Siepel offers a smart rail system made of horizontal and vertical struts attached onto the shielded room
 - No drilling to be done in the shielding panels guaranteeing high shielding effectiveness performances
 - Easy dismantling without loss of material
 - Reliable fixation ensuring no risk of ferrite detachment
 - Hybrid absorbers are glued over the ferrite panels

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

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



Microwave **SEA-PM & TM**



Weatherproof SEA-WP



SEA-WW



High power SEA-HP



Elastomeric **SEA-ELS & ELP**

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These data are the result of tests performed in our laboratory. They are considered to be the best of our knowledge ial and the specification of the performances are should ensure themselves that the material is suitable for their purpo