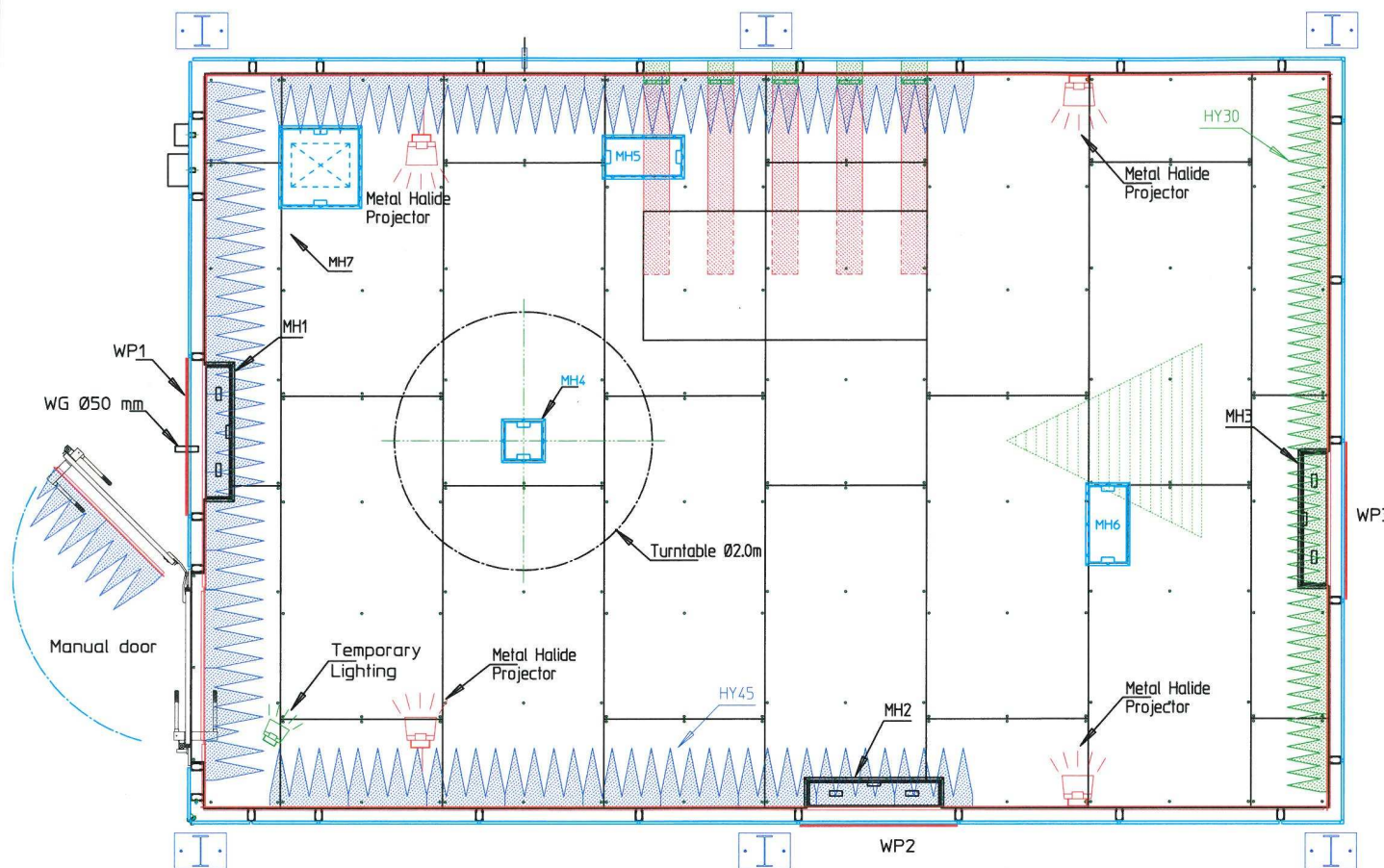
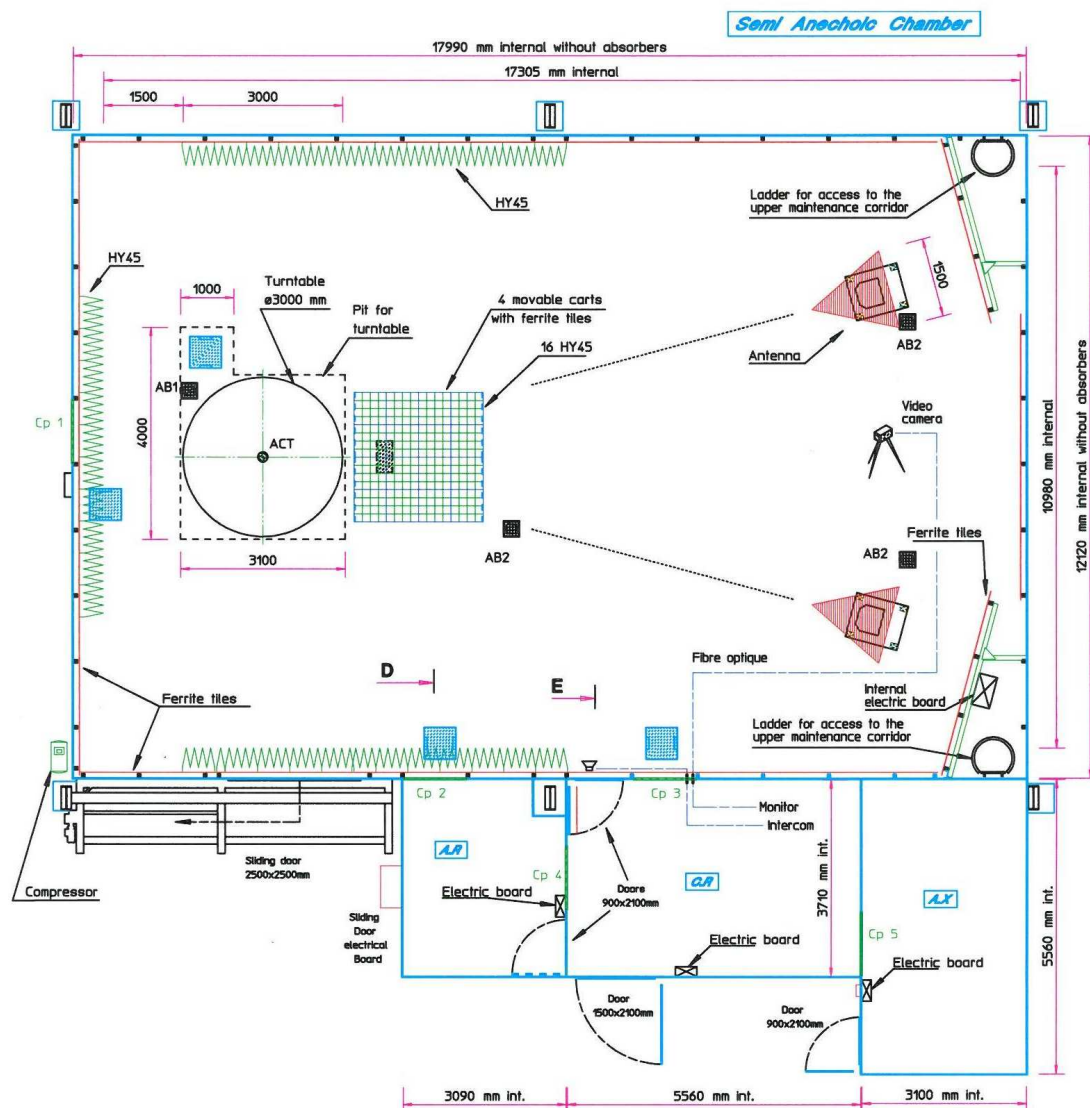


HOW TO CHOOSE AN EMC ANECHOIC CHAMBER ?



Shielded rooms • Anechoic chambers • Reverberation chambers • Electromagnetic absorbers

SIEPEL SAS - 56470 LA TRINITE-SUR-MER - FRANCE
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EMC ANECHOIC CHAMBERS

SIEPEL propose standard EMC chambers corresponding to the following international standards or their equivalent:

- CISPR 22 (EN 55022):** Information technology equipment - Radio disturbance characteristics.
- IEC 61000-4-3 (EN 61000-4-3):** Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test.
- CISPR 25:** Vehicles, boats and internal combustion engines - Radio disturbance characteristics for the protection of on-board receivers.
- ISO11451:** Road vehicles - Vehicle test methods for electrical disturbances.
- DO160F:** Environmental conditions and test procedures for Airborne equipments.
- MIL STD 461F:** Military Standard - Requirements for the control of electromagnetic interference characteristics of subsystems and equipment.

We can also offer custom designs and dimensions according to your needs. Please contact us for any particular request.

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RESIDENTIAL AND COMMERCIAL USE PRODUCTS														
APPLICABLE STANDARDS										SIEPEL SOLUTIONS				
MEASUREMENT DISTANCE in m	EMI Compliant CISPR 22						EMS Compliant IEC 61000-4-3			CHAMBERS REFERENCES	TYPE OF ABSORBERS	INTERNAL DIMENSIONS BETWEEN ABSORBERS L x W x H in m	EXTERNAL DIMENSIONS INCLUDING SUPPORT FRAME L x W x H in m	
	Test Volume		NSA (30 MHz - 1 GHz)		Svswr (1 - 18 GHz)		MEASUREMENT DISTANCE in m	FREQUENCY RANGE	FIELD UNIFORMITY					
	DIAMETER in m	HEIGHT in m	FREQUENCY RANGE	NSA MAXIMUM DEVIATION	MEASUREMENT DISTANCE in m	Svswr LEVEL								
PRE COMPLIANCE	1	1.2	1.5	30 MHz - 1 GHz	+/-4 dB	1	<6 dB	1	80 MHz - 18 GHz	0.5 x 0.5 m (100%)	HERA 1F	Ferrites + Hybrids + Foam Pyramidal	4.45 x 2.30 x 2.10	5.00 x 3.15 x 2.65
	3	1.2	2	200 MHz - 1GHz	+/-4 dB	3	<6 dB	3	80 MHz - 18 GHz	1.5 x 1.5 m (75%)	HERA 3P	Foam Pyramidal	7.00 x 3.00 x 2.20	8.15 x 4.35 x 3.00
	3	1.2	2	30 MHz - 200 MHz 200 MHz - 1 GHz	+/-6 dB +/-4 dB	1	<6 dB	3	80 MHz - 18 GHz	1.5 x 1.5 m (75%)	HERA 3F	Ferrites + Hybrids + Foam Pyramidal	7.20 x 2.50 x 2.70	7.90 x 3.40 x 3.25
	3	1.2	2	30 MHz - 1 GHz	+/-4 dB	3	<6 dB	3	80 MHz - 18 GHz	1.5 x 1.5 m (75%)	HESTIA 3F	Ferrites + Hybrids + Foam Pyramidal	7.70 x 3.85 x 4.15	8.55 x 5.20 x 4.95
FULL COMPLIANCE	3	2	2	30 MHz - 1 GHz	+/-4 dB	3	<6 dB	3	26 MHz - 18 GHz	1.5 x 1.5 m (75%)	HERMES 3	Ferrites + Hybrids + Foam Pyramidal	8.25 x 4.80 x 4.80	8.95 x 6.60 x 6.00
	3	1.5	2	30 MHz - 1 GHz	+/-4 dB	3	<6 dB	3	26 MHz - 18 GHz	1.5 x 1.5 m (75%)	HERMES 3	Ferrites + Hybrids + Foam Pyramidal	7.75 x 4.80 x 4.80	8.45 x 6.60 x 5.85
	5	3	3	30 MHz - 1 GHz	+/-4 dB	3	<6 dB	3	26 MHz - 18 GHz	1.5 x 1.5 m (75%)	HERMES 5	Ferrites + Hybrids + Foam Pyramidal	12.00 x 6.30 x 5.75	12.70 x 8.30 x 6.90
	10	4	3	30 MHz - 1 GHz	+/-4 dB	3	<6 dB	3	26 MHz - 18 GHz	1.5 x 1.5 m (75%)	HERMES 10	Ferrites + Hybrids + Foam Pyramidal	18.45 x 11.80 x 7.90	19.15 x 13.50 x 9.20
	3	1.2	1	30 MHz - 1 GHz	+/-4 dB	3	<6 dB	3	80 MHz - 18 GHz	1.5 x 1.5 m (75%)	ATHENA 3 (Fully anechoic)	Ferrites + Hybrids + Foam Pyramidal	7.50 x 4.65 x 4.40	8.20 x 6.20 x 5.40

AUTOMOTIVE COMPONENTS							
APPLICABLE STANDARDS				SIEPEL SOLUTIONS			
MEASUREMENT DISTANCE in m	EMI Compliant CISPR 25	EMS Compliant ISO11451		CHAMBERS REFERENCES	TYPE OF ABSORBERS	INTERNAL DIMENSIONS BETWEEN ABSORBERS L x W x H in m	EXTERNAL DIMENSIONS INCLUDING SUPPORT FRAME L x W x H in m
1	70 MHz - 18 GHz	200 MHz - 18 GHz	➔	CHRONOS 1P	Foam Pyramidal	4.90 x 3.65 x 2.75	6.45 x 5.20 x 3.65
1	(30) 70 MHz - 18 GHz	200 MHz - 18 GHz	➔	CHRONOS 1F	Ferrites + Hybrid	4.95 x 3.65 x 2.75	5.65 x 4.35 x 3.20

Please contact us for measurements on civilian or military vehicles, or other ISO and CISPR standards applications.

AERONAUTIC AND MILITARY DEVICES								
APPLICABLE STANDARDS				SIEPEL SOLUTIONS				
MEASUREMENT DISTANCE in m	Compliant DO160F & MIL STD 461F			CHAMBERS REFERENCES	TYPE OF ABSORBERS	INTERNAL DIMENSIONS BETWEEN ABSORBERS L x W x H in m	EXTERNAL DIMENSIONS INCLUDING SUPPORT FRAME L x W x H in m	
1	80 MHz - 40 GHz - Reflectivity better than: - 6 dB from 80 to 250 MHz - 10 dB above 250 MHz			➔	ARES 1 P	Foam Pyramidal	3.65 x 2.80 x 2.20	5.00 x 4.15 x 3.00
1	(30) 80 MHz - 40 GHz - Reflectivity better than: - 6 dB from 80 to 250 MHz - 10 dB above 250 MHz			➔	ARES 1 F	Ferrites + Hybrid	3.80 x 2.80 x 2.10	4.70 x 3.70 x 2.65

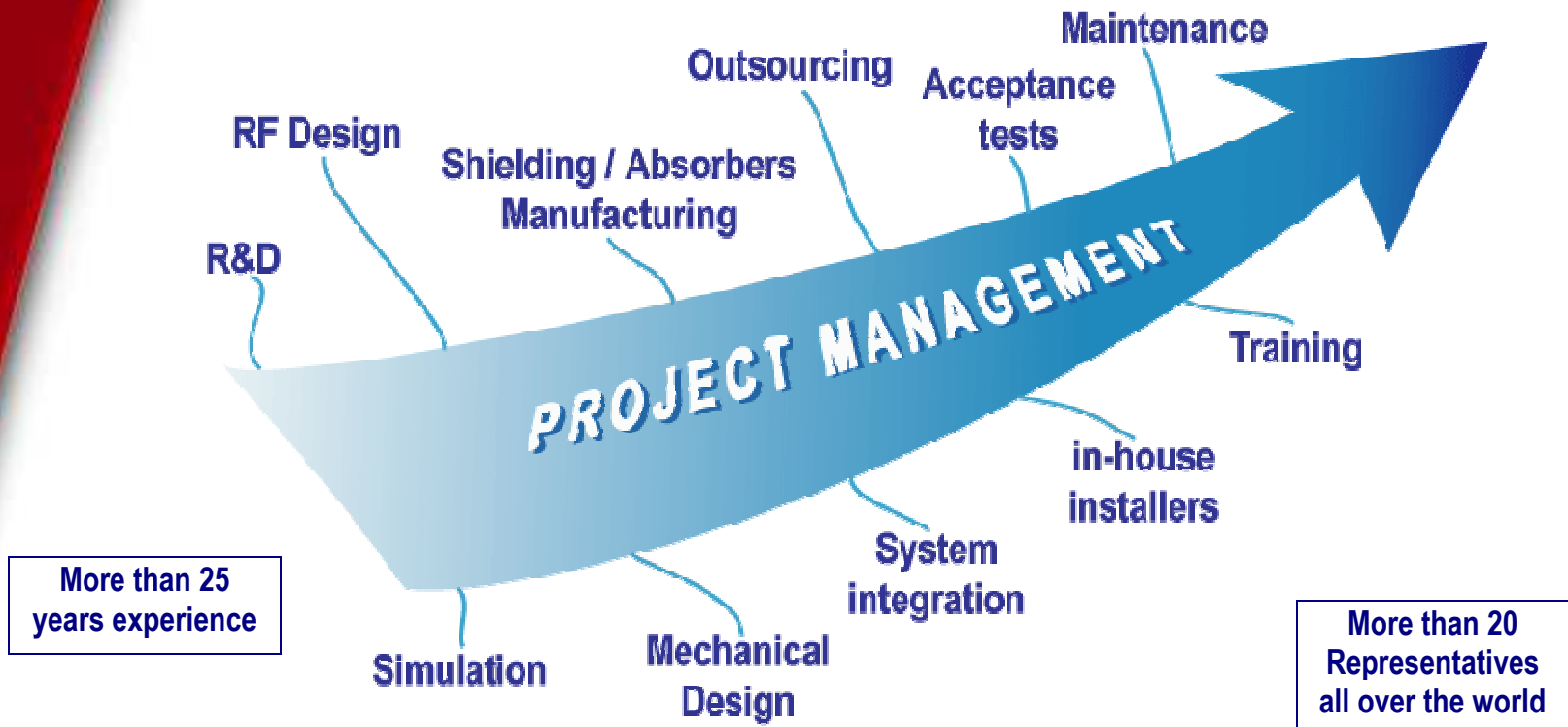
Please contact us for measurements on military devices or other military applications.

- We are at your disposal for advise on electromagnetic absorbers suitable to your needs (for existing chambers, for example) -

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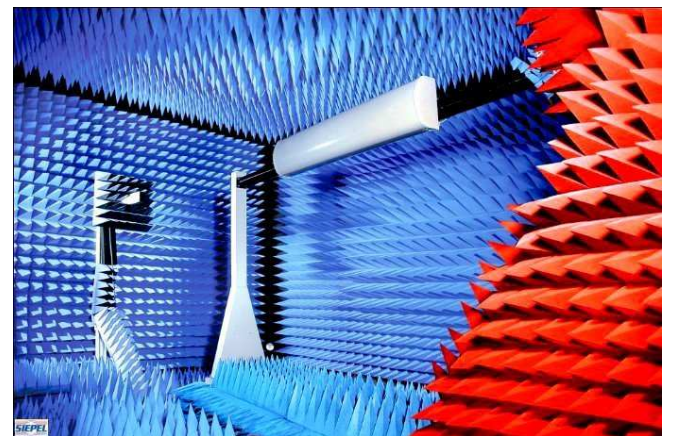
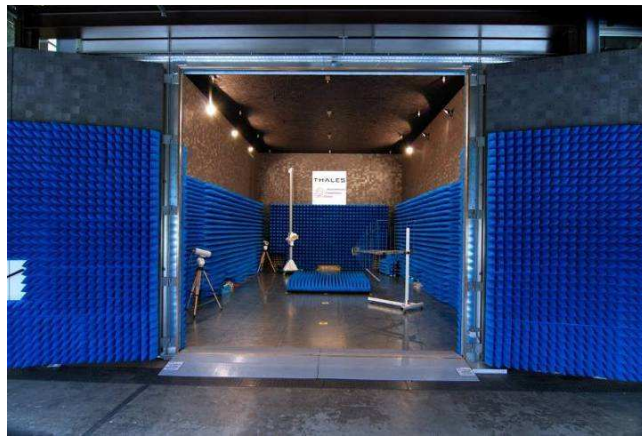
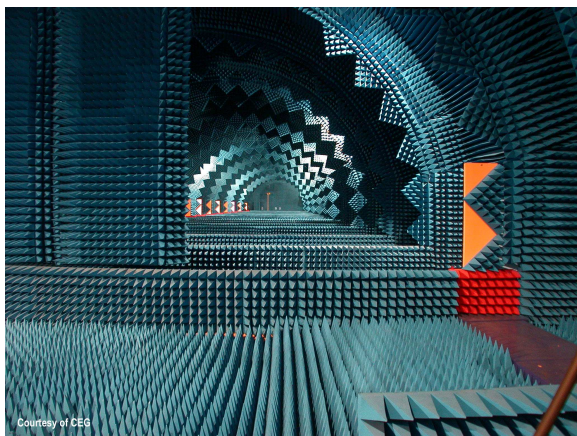
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SIEPEL SCOPE OF WORK



Please contact us for other EMC and non EMC applications:

- Reverb chambers,
- Antenna radiation pattern measurements,
- Telecom applications,
- RCS, PIM, Near Field measurements
- Other MILSTD standards applications.



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