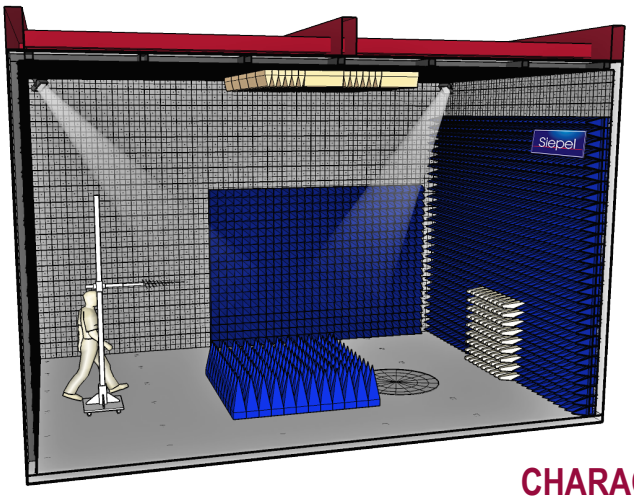
HERMES 3

EMC COMPLIANCE CHAMBER FOR CISPR 16-1-4 & IEC/EN 61000-4-3



The Hermes 3 is designed to perform full-compliance emission and immunity tests at 3m distance on commercial equipment. The design of the structure is optimised for maximum performances, in minimum space. The shielding and its pyramidal absorbers are manufactured by SIEPEL.

CHARACTERISTICS

➢ *Compliance & Performances*

	Normalised site attenuation (NSA) CISPR 16-1-4	Site VSWR CISPR 16-1-4	Field uniformity IEC/EN 61000-4-3
Measurement distance	3 m	3 m	3 m
Frequency range	30 MHz - 1 GHz	1 GHz - 18 GHz	80 MHz - 18 GHz
Guaranteed performances	± 4 dB	< 6 dB	0 / +6 dB
Compliance	**Full-compliant**	**Full-compliant**	**Full-compliant**

SHIELDING EFFECTIVENESS COMPLIES WITH EN 50147-1 (10 kHz - 18 GHz)

Radiated emission (EMI) testing: Fully compliant with the following standards from 30 MHz to 18 (40) GHz:

- CISPR 11,
- CISPR 16-1-4,
- CISPR 22 / EN 55022,
- CISPR 32,
- EN 50147-2,
- EN 55011,
- ANSI C63.4

Radiated immunity (EMS) testing: Fully compliant with EN/IEC 61000-4-3.
Radio standards: All ETSI standards referring to CISPR 16 and EN/IEC 61000-4-3.

➢ *Dimensions (L x W x H)*

Total overall with steel stiffeners	Internal usable dimensions
8.7 x 7.1 x 5.9 m 28 x 23 x 19 ft	7.8 x 5.2 x 4.8 m 26 x 17 x 16 ft

➢ *Quality*

- All absorbers batches are tested by SIEPEL for reflectivity performances between 30 MHz – 1000 MHz.
- Our raw materials are compliant to RoHS / REACH and free of substances in the current list of Substances of Very High Concern (SVHC) published by the European Chemicals Agency (ECHA).

➢ *About our absorbers*

- HY absorbers power handling: 2 kW/m² (CW).
- Both absorbers coated with either aqueous or plastic paint are classified ISO class 4 (ISO 14644-1:2015) clean room conditions.

OUR STRENGTHS

- High-quality components & parts
- Guarantee of 20 years for the RF performances of our absorbers
- Guaranteed performances
- Control of performances before shipment
- Measurement departement accredited ISO/IEC 17025:2005 (accreditation n° 1-6220, scope available on www.cofrac.fr)
- Fast delivery: permanent stock available off the shelves
- Setting-up of the chambers by our dedicated installation team

DESIGNED & MADE IN FRANCE SINCE 1986

cofrac ACCREDITATION N° 1-6220
ESSAIS SCOPE AVAILABLE ON WWW.COFRAC.FR

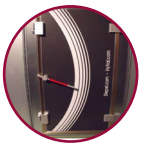
SIEPEL - www.siepel.com
Ph.+33(0)2 97 55 74 95 - Email: sales@siepel.com

HERMES 3

EMC COMPLIANCE CHAMBER FOR CISPR 16-1-4 & IEC/EN 61000-4-3

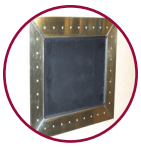
CONFIGURATION

MODULAR SHIELDING
Self-standing structure up to 18 (40) GHz:
Metallic frame



DOOR
Manual single leaf swing doors
Clearance 1.5 x 2.1 m & removable ramp
Clearance 0.9 x 2.1 m

CONNECTY PANELS
Penetration panel on frame including coaxial feedthroughs and waveguides



VENTILATION
Honeycomb air vents
300 x 300 mm / 1 ft x 1 ft up to 18 (40) GHz

POWER DISTRIBUTION
Power filter single phase 32 A - 50/60 Hz
Power filter three-phase 64 A - 50/60 Hz
Electrical package: power distribution, lighting

OPTIMISED ABSORBER LINING
Ferrite absorbers (walls and ceiling)
Hybrid pyramidal absorbers (partial lining walls and ceiling)
Removable pyramidal absorbers for immunity (floor)

RAISED FLOOR
With ground plane

POSITIONERS
Turntable diameter 1.5 m - Max payload 1 ton
Electrical antenna mast - 1 to 4 m

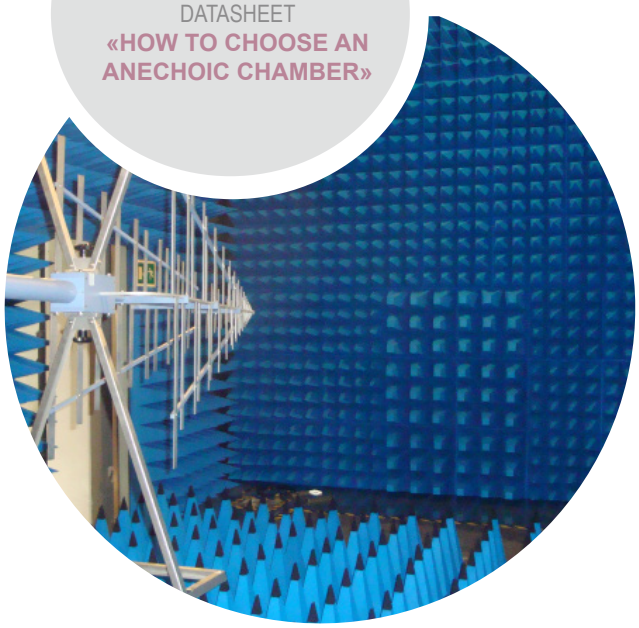
PROJECT REALISATION
Project management
Technical design & study
On-site installation

PERFORMANCE VERIFICATION
Shielding effectiveness at 900 MHz at critical locations

AVAILABLE OPTIONS

- Extended shielding performances up to 40 GHz
- Shielded control and amplifier rooms
- Plastic paint for pyramidal absorbers with wide range of colors
- Other types and dimensions of doors
- Electrically-assisted door latching/unlatching
- Floor hatches with connection points
- Additional power filters, data filters and special feedthroughs
- CCTV / Audio monitoring systems
- Fire detection systems
- On request, some measurements can be accredited ISO 17025 (accreditation number 1-6220, scope available on www.cofrac.fr).
- Military / Automotive / RadioCom standards compliance
- Many other options on demand

FOR OTHER EMC CHAMBERS PLEASE REFER TO OUR DATASHEET
«HOW TO CHOOSE AN ANECHOIC CHAMBER»



SIEPEL - www.siepel.com
Ph.+33(0)2 97 55 74 95 - Email: sales@siepel.com