



Reverberant cabin

The CTTM cabin allows the measurement of:

- Acoustic absorption (« Alpha Cabin type »)
- Transmission loss
- Acoustic power

Acoustic absorption measurement

The CTTM cabin is compliant with the template (reverberation time empty) specified in the Renault D49 1998 test procedure.

The cabin is delivered with its adaptation coefficient: measurements weighted the adaptation coefficient are similar to the ones performed according to ISO 354 (large reverberation room), with a frequency validity range extended towards low frequencies. A spreadsheet for the calculation of the weighted acoustic absorption (including uncertainty) is also provided.

Transmission loss measurement

The access door features a window where samples can be mounted. The standard method consists in using the cabin as the emission room and measuring the acoustic power transmitted through the sample by means of intensimetry, holography or other techniques (coupled reverberant room).

Technical specifications

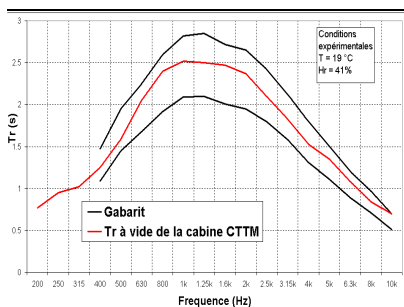
- Double enclosure
- Bulk (p x l x h): 2,7 m x 2,5 m x 2,6 m
- Inner volume: 6,44 m³
- Window dimensions (l x h) : 1 m x 1 m
- Weight : around 2 t
- Frequency range (with adaptation coefficient) : 200 Hz – 10 kHz
- Transmission loss measurement limit : \cong 60 dB at 1000 Hz

Equipment

- Acoustical: 3 sources
- Electrical: 220V sockets (1 inside, 4 outside)

Modularity

The cabin can be suited to given customer specifications (dimensions, form factor, functionalities,...).



Empty reverberation time and the D49-1998 template