

Sound Insulation

According to
ISO 140/3

A5

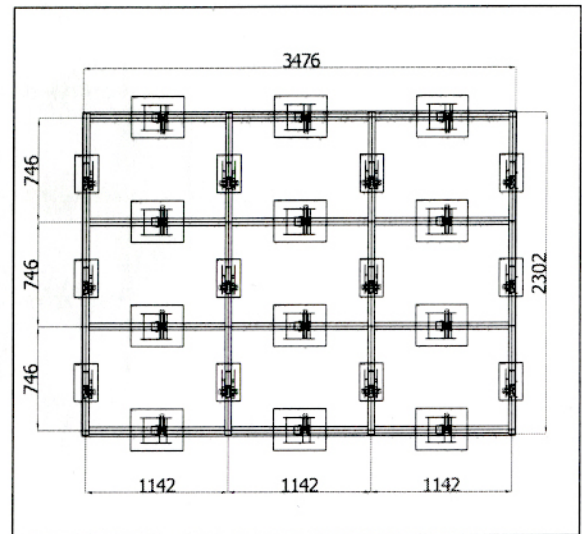
Authorizing Company: ETEM S.A.

Dimensions in mm

Specimen description:

*Alouminium glass curtain wall system E-85 series.**Area : 8,15 m²**Total glazing thickness: 31 mm*

Layers:

*Thermal insulating glazing
6-16-4+4 mm**Rubber seals between glazing and
cross bars - columns*

Test rooms:

Volumes:

 $V_{source} = 50.8 \text{ m}^3$ $V_{receiving} = 43.0 \text{ m}^3$

Type of room : Laboratory test room

Room condition: Empty

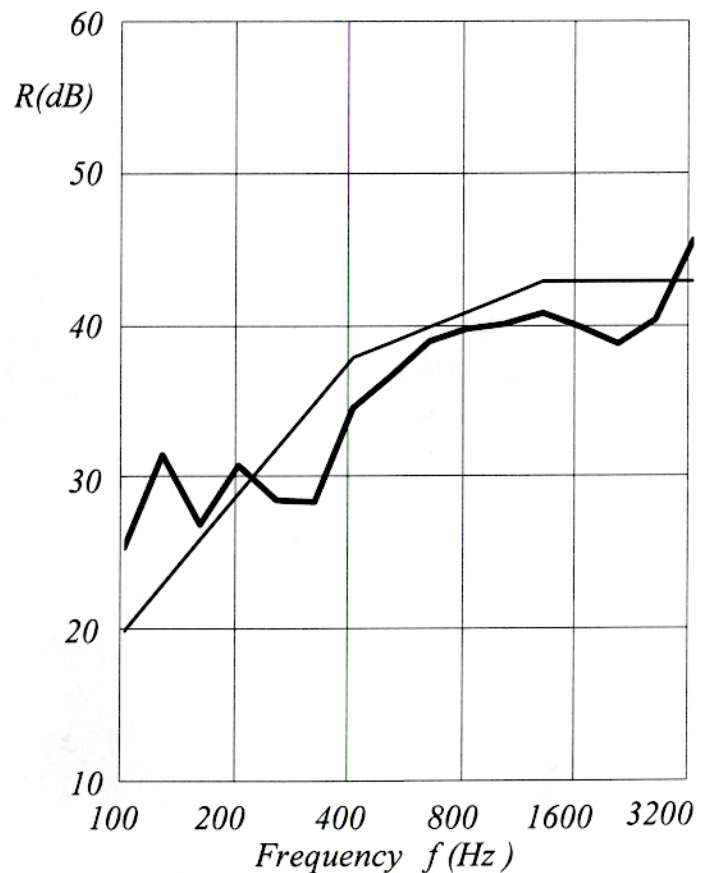
Excitation : White noise

Filter : 1/3 octave

Evaluation according to ISO 717/1

Weighted Sound Reduction Index

$$R_w = 39 \text{ dB}$$



f(Hz): 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150
 R(dB): 25,5 31,6 27,0 30,9 28,6 28,5 34,7 36,8 39,1 39,9 40,2 40,9 40,0 38,9 40,5 45,7

Test number: **A5.402.06**Date of test: **23.06.2006 Π**

School of Architecture - Faculty of Technology - A.U.T.

Architectural Technology Laboratory

Director: E. Tzekakis

Signature