

# Sound Insulation

According to  
ISO 140/3

# A5

Authorizing Company: ETEM S.A

Dimensions in mm

## Specimen description:

Sliding aluminium window  
E-19 series

Area : 1,9 m<sup>2</sup>  
Total glazing thickness: 22 mm

## Layers:

Thermal insulating glazing  
6+12+4 mm  
Two rubber seals between  
sash frame and glazing  
Three brushes between  
sash and frame

## Test rooms:

### Volumes:

$V_{source} = 29,7 \text{ m}^3$

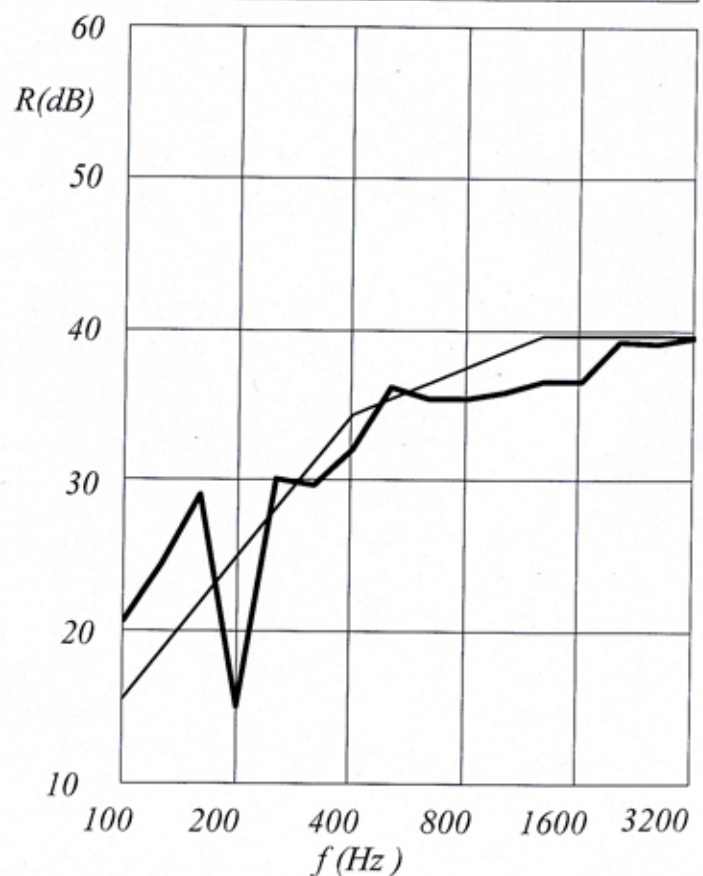
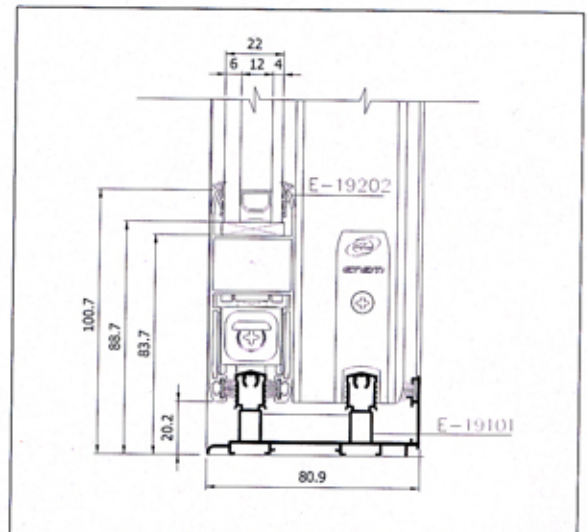
$V_{receiving} = 43,8 \text{ m}^3$

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

$R_w = 36 \text{ dB}$

f(Hz): 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150  
R(dB): 21,9 25,5 29,9 16,5 30,9 30,5 32,8 36,7 36,0 36,0 36,4 37,1 37,1 39,6 39,5 39,9

Test number

**A5.376.05**

Date of test: 16.05.2005 C

School of Architecture - Faculty of Technology - A.U.TH  
Architectural Technology Laboratory  
Director: E.Tzekakis

Signature