

Sound Insulation

According to
ISO 140/3

A5

Authorizing Company: ETEM S.A.

Dimensions in mm

Specimen description:

Single sash side/bottom hung aluminium
window E-40 series

Area : 1,9 m²

Total glazing thickness: 22 mm

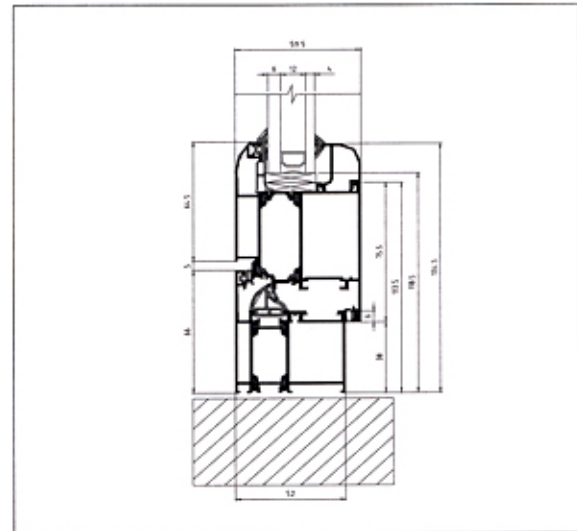
Layers:

Thermal insulating glazing

6+12+4 mm

Rubber seals between sash frame and
glazing

Three rubber seals between sash and
frame



Test rooms:

Volumes:

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

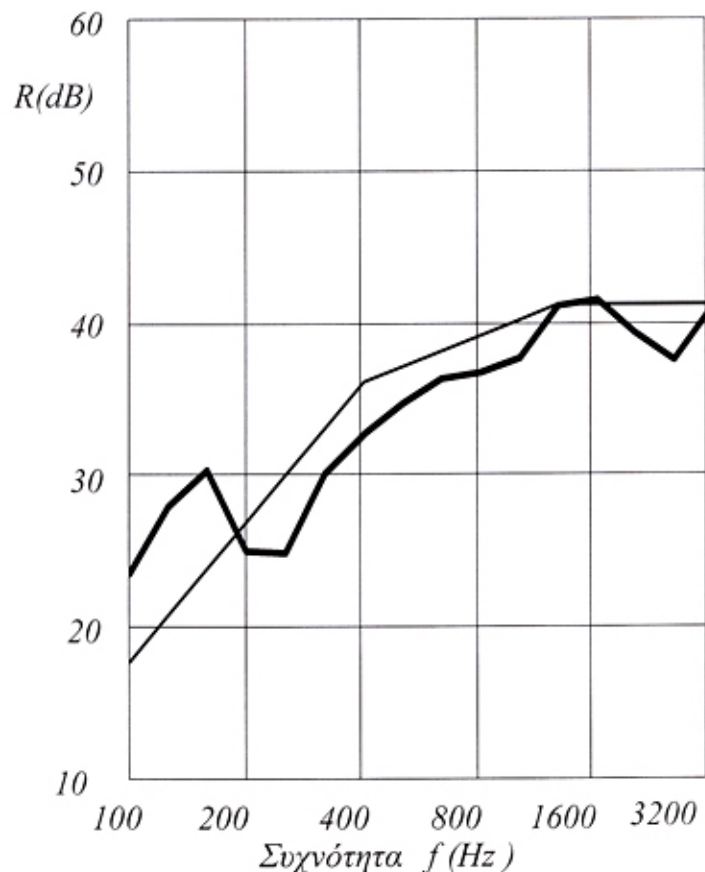
$V_{receiving} = 43,8 \text{ m}^3$

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

$R_w = 37 \text{ dB}$

f(Hz): 100 **125** 160 200 **250** 315 400 **500** 630 800 **1000** 1250 1600 **2000** 2500 3150

R(dB): 23.7 28.0 30.3 25.1 25.0 30.1 32.6 34.6 36.2 36.6 37.5 40.9 41.3 39.1 37.4 40.8

Test number: **A5.333.03**

Date of test: **30.06.2003 C**

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