Sound Insulation

Authorizing Company: ETEM S.A.

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 m³
V receiving = 43.8 m³

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

\[ R_w = 37 \text{ dB} \]

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

\( R(\text{dB}) \): 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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