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: 20 mm

Layers:

Thermal insulating glazing
4 + 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

\[ R_W = 34 \text{ dB} \]

f(Hz): 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150
R(dB): 22.9 26.1 29.7 23.9 20.6 24.0 28.8 31.9 33.2 35.0 36.6 39.4 41.7 40.6 38.6 32.6

Test number: A5.332.03

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Date of test: 30.06.2003 C

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