

SOUND INSULATION

according to
ISO 140/3-78

A5

Authorizing company: EPAL ABEE

Dimensions in mm

Specimen description :

14200

Window from aluminium, double glazing and triple rubber sealant to the perimeter

Area : 1.9m^2
Total glass thickness: 21 mm

Layers:

Aluminium frame 97.8 mm
Aluminium sash 72.8 mm
Glass 5 mm
Airspace 12 mm
Glass 4 mm
Triple rubber sealing to the perimeter
Expanded polysterene, silicon and rubber sealing between wall and window frame

Test rooms:

Volumes:

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

Receiving room: Empty

Type of room: Laboratory test room

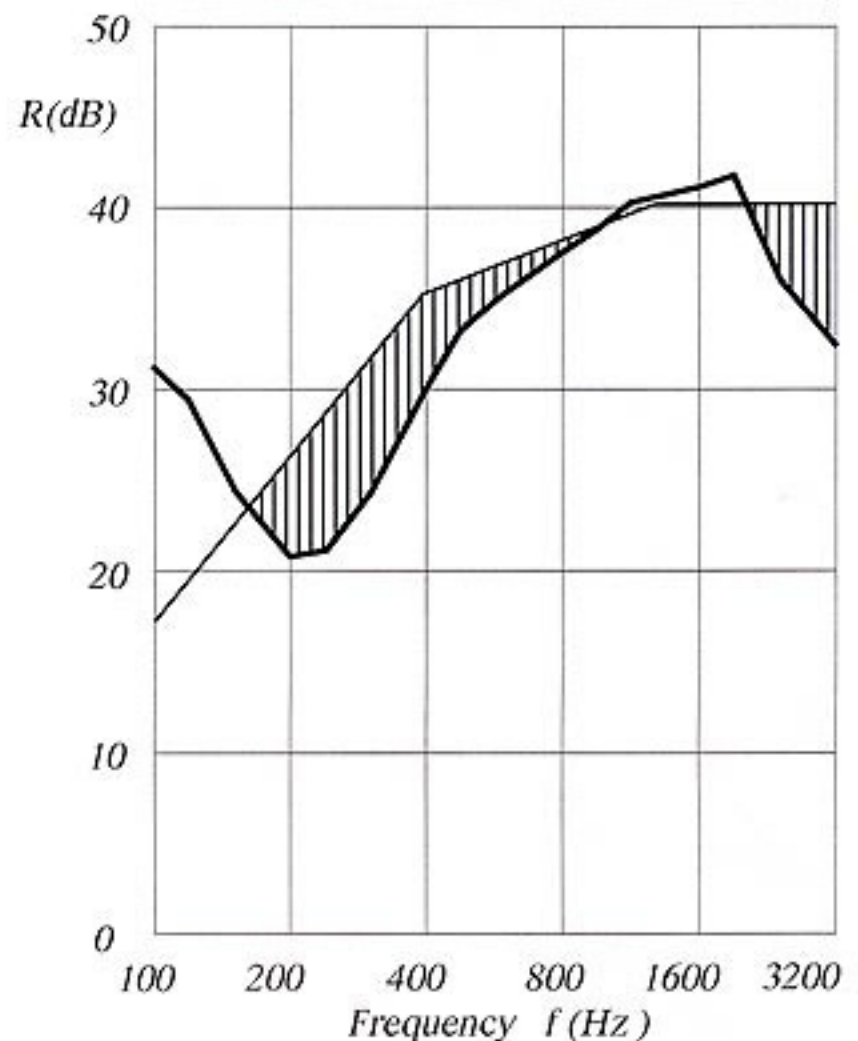
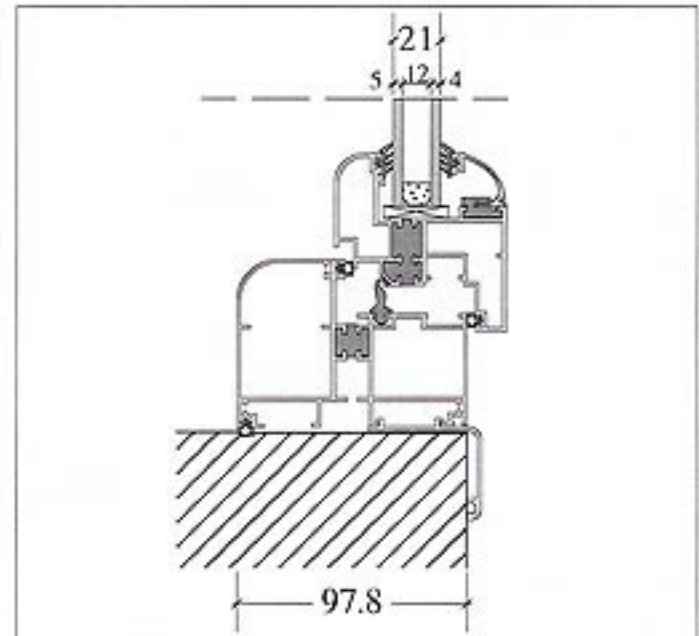
Type of noise: White noise

Type of 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): 31.1 29.6 24.3 20.8 21.1 29.4 30.0 33.2 35.2 37.4 38.8 40.2 41.1 41.7 36.0 32.4

Test number: **A6.121.96**Date: **02.10.1996**School of Architecture - Faculty of Technology - A.U.T.
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Signature

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