

Sound reduction index according to PN-EN 20140-3:1999

Laboratory measurements of airborne sound insulation of building elements

Client: **Sokolka Okna i Drzwi Spółka Akcyjna**
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Test specimen mounted by: **Client**

Description of the test facility, test specimen and test arrangement:

Sliding wood-aluminum doors ECO SLIDE

- dimensions w x h: 1900 x 2120 mm

- glazing: 44.1LE / 12Ar / 4 / 12Ar / 44.1LE

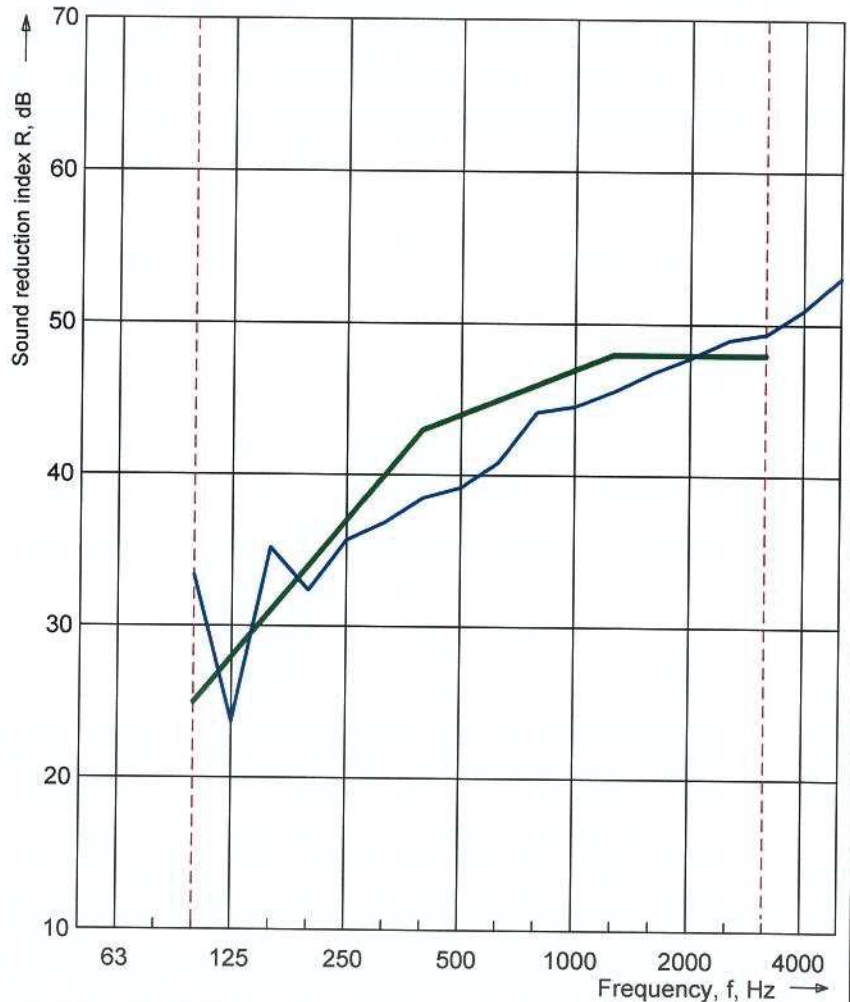
Sample no. 2/LA00 - 6016/15/R09NA

Area of test specimen: **4,13 m²**
 Air permeability coefficient: **--- m³/(m²·h·daPa^{2/3})**

Test room: source receive
 Volume, m³: **87,5 51,6**
 Air temperature, °C: **22,6 22,6**
 Air humidity, %: **48,5 47,0**

Frequency f [Hz]	R 1/3 octave [dB]
50	---
63	---
80	---
100	33,4
125	23,7
160	35,2
200	32,4
250	35,7
315	36,9
400	38,5
500	39,2
630	40,9
800	44,2
1000	44,6
1250	45,6
1600	46,8
2000	47,8
2500	49,0
3150	49,4
4000	51,0
5000	53,1

--- Frequency range according to the curve reference values (PN-EN ISO 717-1:1999)
 — Characteristics measured



Rating according to PN-EN ISO 717-1:1999

R_w(C;C_{tr}) = 44 (-2; -5) dB

C₅₀₋₃₁₅₀ = --- dB C₅₀₋₅₀₀₀ = --- dB C₁₀₀₋₅₀₀₀ = -1 dB

C_{tr,50-3150} = --- dB C_{tr,50-5000} = --- dB C_{tr,100-5000} = -5 dB

Evaluation based on laboratory measurement results obtained by engineering method

Building Research Institute Group of the Testing Laboratories
 Acoustic Laboratory

Test No.: 291.15

Date of analysis: 2015-04-13

Signature: N. Bombala