

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

Laboratory measurements of airborne sound insulation of building elements

Client: **Sokółka Okna i Drzwi Spółka Akcyjna**
ul. Lotników Lewoniewskich 1, 16-100 Sokółka
 Test specimen mounted by: **ITBUD, 02-656 Warszawa, ul. Ksawerów 21**
 Description of the test facility, test specimen and test arrangement:
Wooden window in system IV 80 (THERMO 80)
single frame, single leaf, tilting - casement

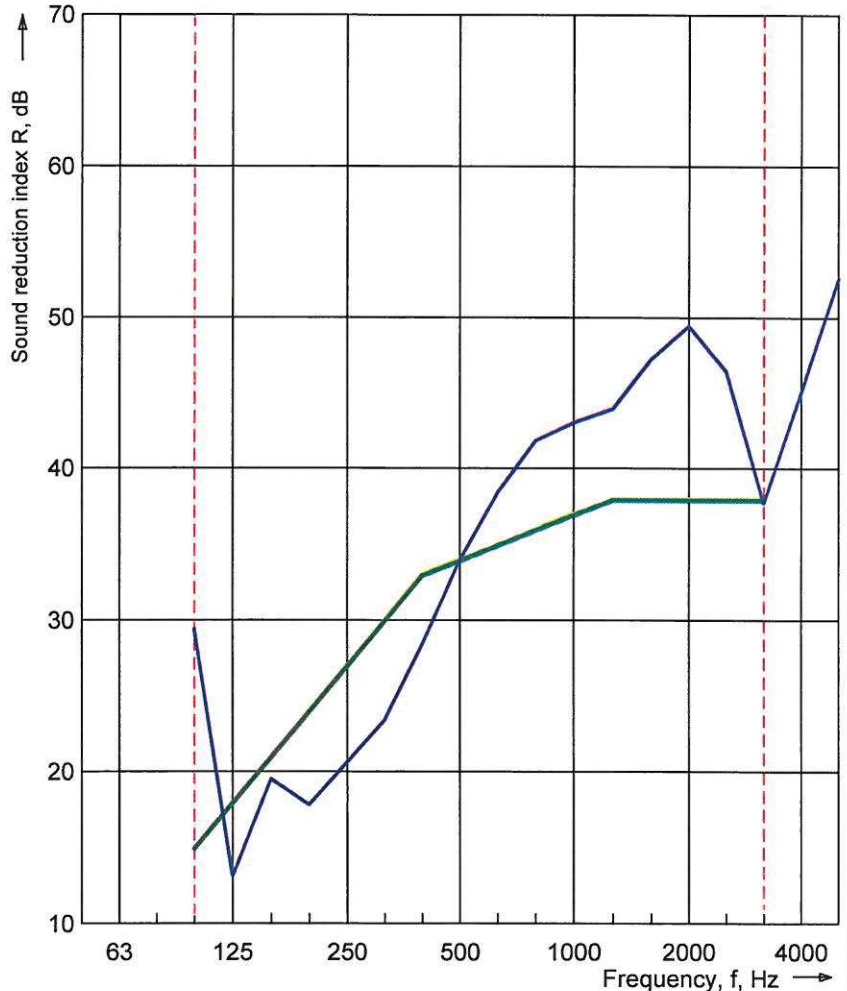
- dimensions w x h: 1470 mm x 1450 mm
- glazing: 4TP/14Ar/4/14Ar/4TP

Sample no. 2/LA00 - 6016/14/R07NA

Area of test specimen: **2,20 m²**
 Air permeability coefficient: **--- m³/(m²·h·daPa^{2/3})**
 Test room: source receive
 Volume, m³: **87,5 51,6**
 Air temperature, °C: **19,7 20,9**
 Air humidity, %: **75,2 73,9**

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

Frequency f [Hz]	R 1/3 octave [dB]
50	---
63	---
80	---
100	29,5
125	13,2
160	19,6
200	17,9
250	20,7
315	23,5
400	28,5
500	34,1
630	38,5
800	41,9
1000	43,1
1250	44,0
1600	47,3
2000	49,5
2500	46,5
3150	37,8
4000	45,1
5000	52,7



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

R_w(C;C_{tr}) = 34 (-2; -6) 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} = -6 dB

Evaluation based on laboratory measurement results obtained by engineering method

Building Research Institute Group of the Testing Laboratories
 Acoustic Laboratory

Test No.: 606.14

Date of analysis: 2014-06-06

Signature: N.Bombała