

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

Laboratory measurements of airborne sound insulation of building elements

Client: **PILKINGTON-IGP Sp. z o.o.**

ul. Portowa 24, 27-600 Sandomierz

Test specimen mounted by: **ITBUD, 02-656 Warszawa, ul. Ksawerów 21**

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

Insulating glass unit Pilkington Insulight™

Dimensions: 1230 mm x 1480 mm

Structure: 10.8 mm (55.2) Optiphon™ - 12 mm Argon 90% - 6 mm Optifloat™ - 12 mm Argon 90% - 6 mm Optifloat™

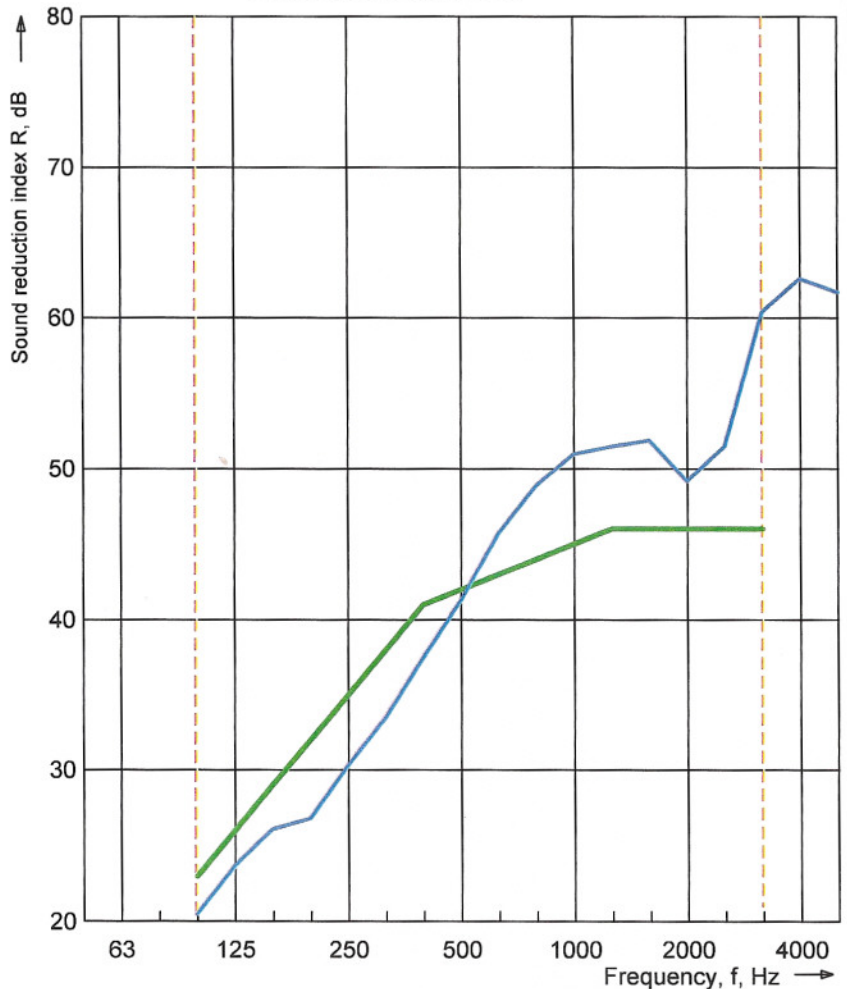
Area of test specimen: **1,88 m²**
 Air permeability coefficient: **--- m³/(m²·h·daPa^{2/3})**

Test room: source receive

Volume, m³: **100,0 93,0**
 Air temperature, °C: **22,7 20,6**
 Air humidity, %: **22,1 24,2**

Frequency f [Hz]	R 1/3 octave [dB]
50	---
63	---
80	---
100	20,5
125	23,7
160	26,1
200	26,8
250	30,3
315	33,5
400	37,5
500	41,3
630	45,7
800	48,9
1000	51,0
1250	51,5
1600	51,9
2000	49,2
2500	51,5
3150	60,4
4000	62,6
5000	61,7

--- 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}) = 42 (-1; -7) dB

C₅₀₋₃₁₅₀ = --- dB C₅₀₋₅₀₀₀ = --- dB C₁₀₀₋₅₀₀₀ = 0 dB

C_{tr,50-3150} = --- dB C_{tr,50-5000} = --- dB C_{tr,100-5000} = -7 dB

Evaluation based on laboratory measurement results obtained by engineering method

Building Research Institute Group of the Testing Laboratories
 Acoustic Laboratory

Test No.: 133.12

Date of analysis: 2012-02-14

Signature: N. Bombala