

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: 8.8 mm (44.2) Optilam™ - 12 mm Argon 90% - 6 mm Optifloat™ - 12 mm Argon 90% - 6 mm Optifloat™

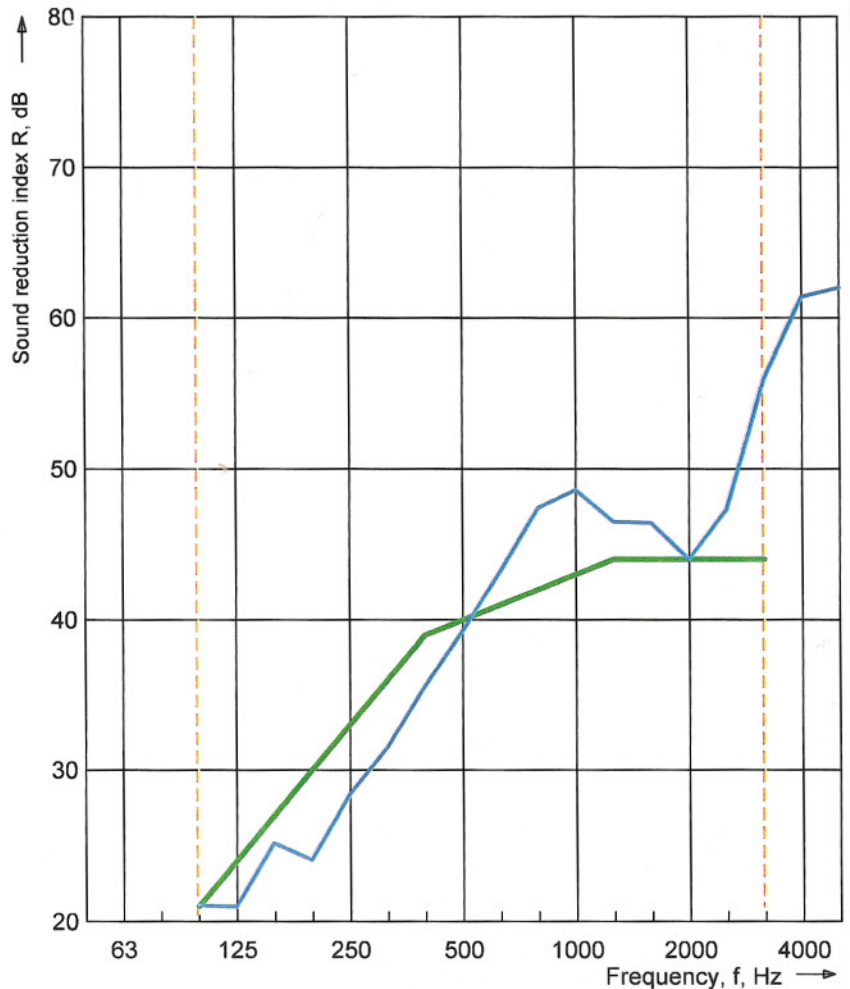
Area of test specimen: **1,88 m²**
 Air permeability coefficient: **--- m³/(m²·h·daPa^{2/3})**

Test room: source receive

Volume, m³: **100,0** **93,0**
 Air temperature, °C: **22,6** **20,8**
 Air humidity, %: **28,3** **26,1**

Frequency f [Hz]	R 1/3 octave [dB]
50	---
63	---
80	---
100	21,1
125	21,0
160	25,2
200	24,1
250	28,4
315	31,5
400	35,6
500	39,3
630	43,2
800	47,4
1000	48,6
1250	46,5
1600	46,4
2000	44,0
2500	47,3
3150	56,0
4000	61,4
5000	62,0

--- 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}) = 40 (-1; -6) 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} = -6 dB

Evaluation based on laboratory measurement results obtained by engineering method

Building Research Institute Group of the Testing Laboratories
 Acoustic Laboratory

Test No.: **152.12**

Date of analysis: **2012-02-16**

Signature: **N.Bombala**