

**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: 1230mmx1480mm**

**Structure: 8.8 mm (44.2) Optilam™ - 12 mm Argon 90% - 4 mm Optifloat™ - 12 mm Argon 90% - 4 mm Optifloat™**

Area of test specimen: **1,88 m<sup>2</sup>**  
 Air permeability coefficient: **--- m<sup>3</sup>/(m<sup>2</sup>·h·daPa<sup>2/3</sup>)**

Test room: source receive

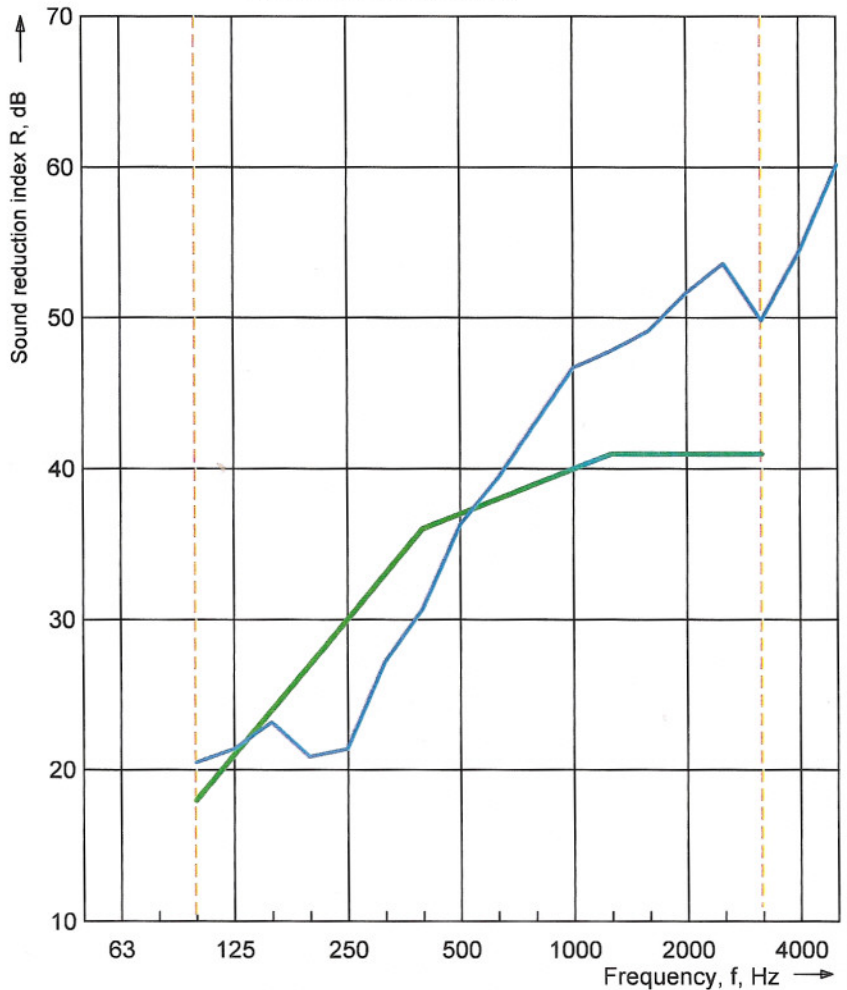
Volume, m<sup>3</sup>: **100,0 93,0**

Air temperature, °C: **22,0 19,3**

Air humidity, %: **29,1 28,4**

Frequency f [Hz]	R 1/3 octave [dB]
50	---
63	---
80	---
100	20,5
125	21,4
160	23,2
200	20,9
250	21,4
315	27,2
400	30,7
500	36,3
630	39,4
800	43,1
1000	46,7
1250	47,8
1600	49,1
2000	51,6
2500	53,6
3150	49,8
4000	54,4
5000	60,2

--- 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<sub>w</sub>(C;C<sub>tr</sub>) = 37 (-2; -6) dB**

C<sub>50-3150</sub> = --- dB

C<sub>50-5000</sub> = --- dB

C<sub>100-5000</sub> = -1 dB

C<sub>tr,50-3150</sub> = --- dB

C<sub>tr,50-5000</sub> = --- dB

C<sub>tr,100-5000</sub> = -6 dB

Evaluation based on laboratory measurement results obtained by engineering method

Building Research Institute Group of the Testing Laboratories  
 Acoustic Laboratory

Test No.: 155.12

Date of analysis: 2012-02-16

Signature: N.Bombała