

Sound reduction according to EN ISO 10140-2

Laboratory measurement of airborne sound insulation of building elements

Reg. No.:
173/13

Customer:
PRESS GLASS SA
Nowa Wieś, ul. Kopalniana 9
42-262 Poczesna, Poland

Product: Insulating glass unit

Sample description: insulating glass unit Float 8 mm /20 Argon/ VSG 44.2, dimensions 1200 mm x 1500 mm. Structure:

- Float 8 mm,
- aluminium spacer 20 mm, argon,
- laminated glass 44.2.

Weight of the sample: 72,3 kg, mass per unit area: 40,2 kg/m².

Sample No.: 99/A/13.

Conditions of the test

Area of test element: 1,8 m²
Source room volume: 90 m³
Receiving room volume: 70 m³

Test date: 22.08.2013

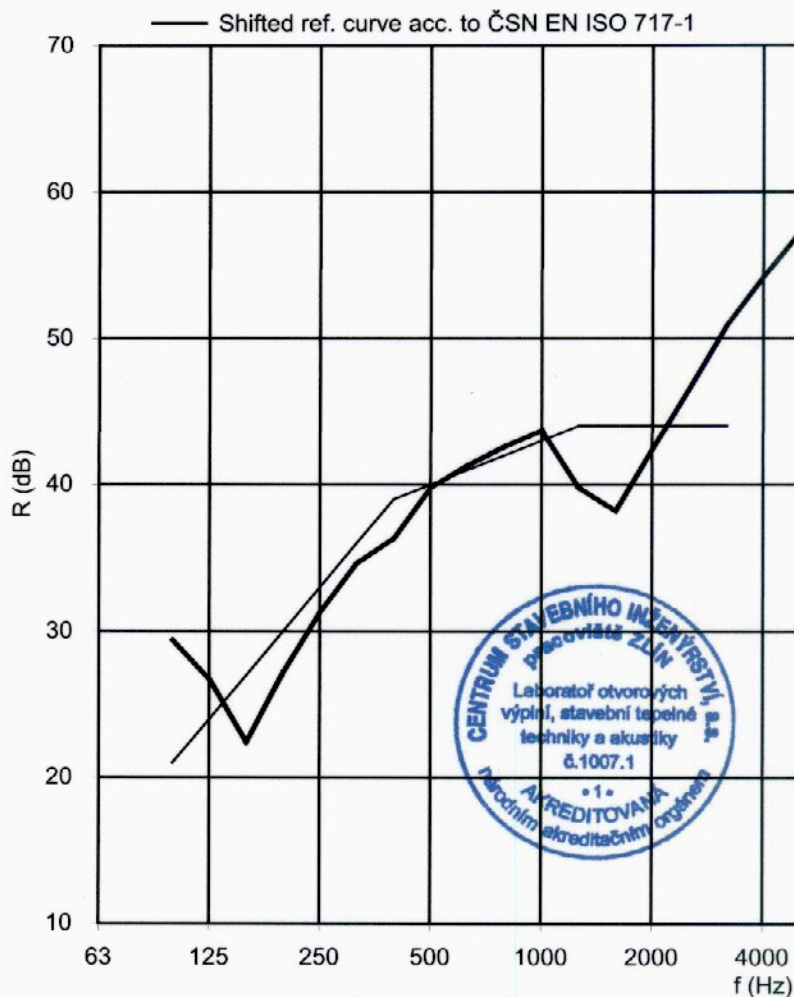
Air temperature: 22 °C

Relative humidity: 77 %


Static pressure: 994 hPa

| Freq. (Hz) | R 1/3 okt. (dB) |
|------------|-----------------------|
| 100 | 29,4 |
| 125 | 26,7 |
| 160 | 22,4 |
| 200 | 27,2 |
| 250 | 31,3 |
| 315 | 34,6 |
| 400 | 36,3 |
| 500 | 39,8 |
| 630 | 41,3 |
| 800 | 42,6 |
| 1000 | 43,7 |
| 1250 | 39,8 |
| 1600 | 38,2 |
| 2000 | 42,4 |
| 2500 | 46,6 |
| 3150 | 50,9 |
| 4000 | 54,2 |
| 5000 | 57,3 |

Rating according EN ISO 717-1

 $R_w (C; C_{tr}) = 40 (-1; -4) \text{ dB}$ $C_{100-5000} = 0 \text{ dB}, C_{tr100-5000} = -4 \text{ dB}$ Centrum stavebního inženýrství a.s.
pracoviště Zlín

Date: 24.09.2013


Ing. Miroslav Figalla
Head of laboratory