

Specific sound insulation as determined by PN-EN ISO 10140-2

Laboratory measurement of airborne sound insulation for building components

Principal: Fluffo sp. z o.o., ul. Poprzeczna 15A, 05-083 Wierzbina, Poland
 Producer: Fluffo Sp. z o.o., ul. Poprzeczna 15A, 05-083 Wierzbina, Poland
 Research Laboratory: CTO S.A. Zespół Laboratoriów Badań Środowiskowych. Laboratorium Badań Wibroakustycznych

Sample mounted by: Fluffo sp. z o.o., ul. Poprzeczna 15A, 05-083 Wierzbina, Poland
 Sample determination: LA 2175

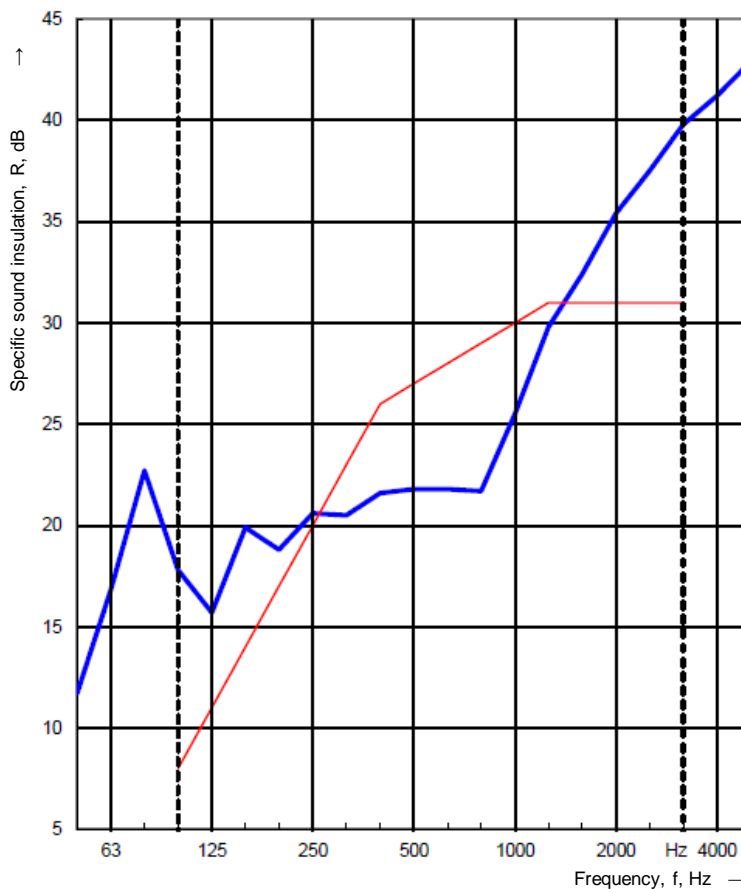
Sample description: Fluffo IZO panel 1000 mm x 2000 mm Description of the layers:
 - 30 mm thick Fluffo Soft Edge panel - a decorative acoustic panel made of open-cell polyurethane foam covered with polyamide flock. Material density: 24-27 kg/m³
 - 2 mm thick layer of solid rubber - thermoplastic rubber film, manufactured on the basis of unvulcanised synthetic rubber. Material density: 2000 kg/m³
 - 30mm-thick layer of open-cell, re-foamed polyurethane foam. Material density: 140 kg/m³

Sample surface area: 2,00 m²
 Surface mass: - kg/m²

Reverberation chamber:	Broadcasting:	Receiving:
Volume, m ³ :	212,0	191,0
Temperature, °C:	17,3 ± 0,3	17,0 ± 0,2
Relative humidity, %:	31,9 ± 3	32,9 ± 2
Static pressure, kPa:	101,0 ± 0,1	101,0 ± 0,1

--- Frequency range in accordance with
 — reference value curve (PN_EN ISO 717-1)
 — Measured characteristics

Frequency f [Hz]	R 1/3 octave [dB]
50	11,7
63	16,8
80	22,7
100	17,8
125	15,7
160	19,9
200	18,8
250	20,6
315	20,5
400	21,6
500	21,8
630	21,8
800	21,7
1000	25,5
1250	29,8
1600	32,4
2000	35,4
2500	37,5
3150	39,8
4000	41,2
5000	42,9



Indicators according to PN-EN ISO 717-1

$R_w(C;C_{tr}) = 27 (-1; -3)$ dB

Evaluation based on the result of laboratory measurements obtained by the engineering method

$C_{50-3150} = -1$ dB $C_{50-5000} = 0$ dB $C_{100-5000} = 0$ dB
 $C_{tr,50-3150} = -4$ dB $C_{tr,50-5000} = -4$ dB $C_{tr,100-5000} = -3$ dB

Test no: B217501

Indicators according to PN_EN ISO 717-1 (with accuracy to 0,1 dB): $R_w(C;C_{tr}) = 27,1 (-1,2; -3,5)$ dB

Date of test: 2024-02-16

Signed by: Piotr Jakubowski

KIEROWNIK
 Laboratorium Środków Wibroakustycznych
 - Specjalista ds. wtężeń i wibracji -
 dr inż. Piotr Jakubowski

Signed by /
 Podpisano przez:

Piotr Jakubowski

Date / Data:
 2024-03-12 11:32