

THERMAL-NOISE INSULATION PANEL WITH RECYCLED EXPANDED GLASS

TECHNICAL DATA SHEET

Product: Thermal-noise insulation panel with recycled expanded glass (WA-TN-PO03), 53 x 35 x 2 cm.

Fire resistance class: B - s2, d0 according to EN 13501-1 : 2018 (assessment method according to EN ISO 11925-2:2020, EN 13823+A1 : 2022).

Thermal conductivity (lambda), W/m*K: lambda D value according to EN ISO 10456:2008 - 0.044

Level of sound absorption: Mounting method A, Sound absorption according to EN ISO 354:2003.

Class D, Alpha-w 0.5 (MH) (α_w) according to EN ISO 11654:1997. NRC = 0.65 calculated according ASTM C 423- 01.

Test date: 07.03.2024
Chamber Volume: 300.1 m²
Mounting method: A

Test room:
Air Temperature:
Air Humidity:
Air Pressure:
Sample Area: 11.80 m²

Empty
16.8°C
56% RH
1015 mbar

With Sample
16.1°C
57% RH
1014 mbar

Frequency Hz	T1, empty room reverberation time, sec	T2, room reverber. time with sample, sec	Sound Absorption Coefficient α_s	Practical Sound Absorption Coefficient α_p
100	6.50	6.19	0.03	
125	6.40	6.03	0.04	0.05
160	5.80	5.53	0.04	
200	6.23	5.41	0.10	
250	6.36	5.00	0.18	0.20
315	6.65	4.49	0.30	
400	6.51	3.92	0.42	
500	5.70	3.06	0.63	0.60
630	5.11	2.61	0.78	
800	5.20	2.44	0.90	
1000	5.60	2.55	0.88	0.90
1250	5.53	2.43	0.96	
1600	5.21	2.28	1.02	
2000	4.73	2.21	0.99	1.00
2500	4.17	2.07	1.00	
3150	3.35	1.86	0.98	
4000	2.74	1.61	1.04	1.00
5000	2.13	1.39	1.01	

α_s Level of sound absorption according to ISO 354

α_p Level of sound absorption according to ISO 11654

