

THERMAL-NOISE INSULATION PANEL WITH SAND  
**TECHNICAL DATA SHEET**

**Product:** Thermal-noise insulation panel with sand (WA-TN-SA80), 53 x 35 x 2 cm.

**Fire resistance class:** A2 - s1, d0 according to EN 13501-1 : 2018 (assessment method according to EN ISO 1716:2018, EN 13823+A1 : 2022). Product Calorific Value 1.79 MJ/kg.

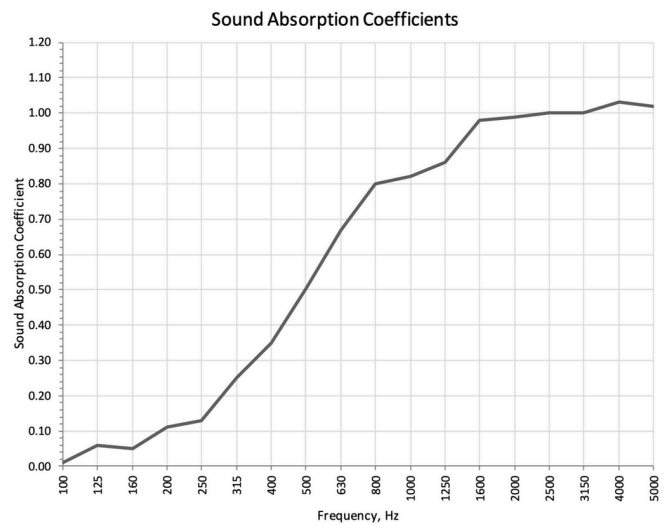
**Thermal conductivity (lambda), W/m\*K:** lambda D value according to EN ISO 10456:2008 - 0.049

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

Class D, Alpha-w 0.45 (MH) ( $\alpha_w$ ) according to EN ISO 11654:1997. NRC = 0.60 calculated according ASTM C 423- 01.

Test date: 07.03.2024	Test room:	Empty	With Sample
Chamber Volume: 300.1 m <sup>2</sup>	Air Temperature:	16.8°C	16.2°C
Mounting method: A	Air Humidity:	56% RH	57% RH
	Air Pressure:	1015 mbar	1014 mbar
	Sample Area: 11.39 m <sup>2</sup>		

Frequency Hz	T1, empty room reverberation time, sec	T2, room reverber. time with sample, sec	Sound Absorption Coefficient $\alpha_s$	Practical Sound Absorption Coefficient $\alpha_p$
100	6.50	6.39	0.01	
125	6.40	5.91	0.06	0.05
160	5.80	5.41	0.05	
200	6.23	5.38	0.11	
250	6.36	5.30	0.13	0.15
315	6.65	4.81	0.25	
400	6.51	4.25	0.35	
500	5.70	3.42	0.50	0.50
630	5.11	2.84	0.67	
800	5.20	2.64	0.80	
1000	5.60	2.70	0.82	0.85
1250	5.53	2.63	0.86	
1600	5.21	2.37	0.98	
2000	4.73	2.26	0.99	1.00
2500	4.17	2.11	1.00	
3150	3.35	1.87	1.00	
4000	2.74	1.65	1.03	1.00
5000	2.13	1.41	1.02	



$\alpha_s$  Level of sound absorption according to ISO 354

$\alpha_p$  Level of sound absorption according to ISO 11654

**Sound Reduction** index of various partitions in accordance with BS EN ISO 10140-2: 2021

ENHANCEMENT (receive side)	Tested Sound Insulation, $R_w$ (C;Ctr) dB	Improvement on Basic Wall, $R_w$ dB
None*	35 (-2;-7) dB	N/A
WAYNERR® WA-TN-SA80	38 (-2;-7) dB	<b>3 dB</b>

**\*Basic wall construction:** 1x12.5 mm Wallboard, 70 mm C-Stud standard @ 600 mm Centres, 1x12.5 mm Wallboard

