



DeFelt®

Acoustic PET Felt Panel

Panels Specification

Catalogue of Acoustic PET Felt Panel Specification

260204



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Felt Type	Thickness [mm]	Size [mm]	Density [g/m ²]	Weight [kg/sheet]
Regular	9	1220 × 2440	1500	4,5
Regular	9	1220 × 2440	1900	5,7
Regular	12	1220 × 2440	2400	7,1
Regular	24	1220 × 2440	4000	11,9
Fire - Rated	9	1220 × 2440	1900	5,7
Fire - Rated	12	1220 × 2440	2400	7,1
Fire - Rated	24	1220 × 2440	4000	11,9
Fire - Rated	9	1220 × 2800	1900	6,5
Fire - Rated	12	1220 × 2800	2000	6,8
Fire - Rated	12	1220 × 2800	2400	8,2
Fire - Rated	24	1220 × 2800	4000	13,7
Fire - Rated	24	1220 × 2800	4800	16,4

All specs refer to singular products and not multiples unless specified. Due to the nature of the material and the cutting and fabrication process, minor dimensional variances may occur. Custom options are available upon request. PET Panels are sold in packages 5, 10, 12 sheets depending of the thickness. Please note that all colors come in all thicknesses.

Material	100% PET (65% from recycled plastic bottles)
Fire Rating	In accordance with PN-EN 13501-1:2019-02 fire reaction classification: FR panels B-s1, d0 & Regular Panels C-s2, d0
Custom Option	Available upon request
Lead Time	*In stock for immediate shipment
VOC Emission	US EPA 5021A:2003 analysis was performed by HS - GS - MS. + CAS № 75-25-2: VOC 0,0001% + CAS № 110-54-3: VOC 0,0005% + CAS № 71-43-2: VOC 0,0005% + CAS № 100-42-5: VOC 0,0005%

*Actual lead times are determined when the project goes into production and can change based on production schedule and all quantities, color and thicknesses being in stock at time of order. See DeFelt Product Lead Time Disclosure for more information.



02 Acoustic Data

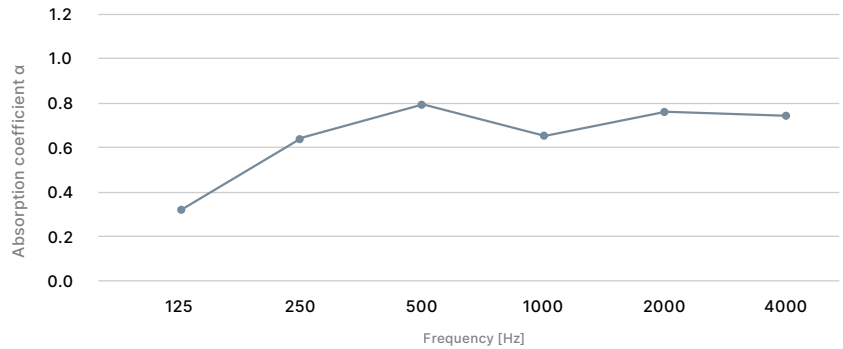
Sound absorption in revernation room.

Tested material: **9 mm PET Felt**
Test method: **EN ISO 354:2003**

Reverberation chamber volume: **200 m³**
Test sample of area: **10,8 m²**

Frequency [Hz]	α_s
125	0.32
250	0.65
500	0.80
1000	0.65
2000	0.77
4000	0.75
NRC	0.32
SAA	0.31

The characteristic curve of sound absorption frequency of specimen

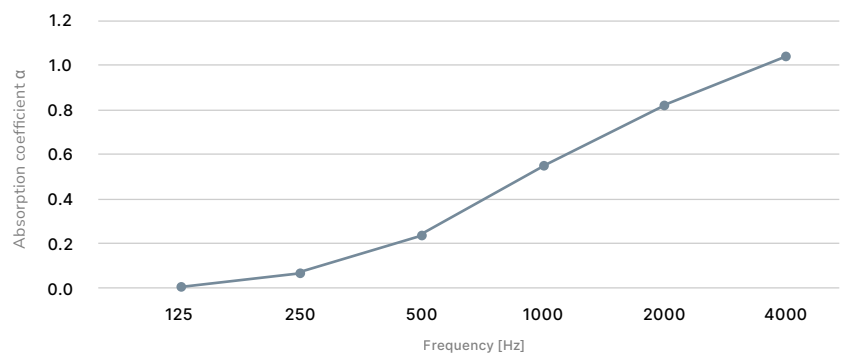


Tested material: **12 mm PET Felt**
Test method: **ASTM C423-17**

Reverberation chamber volume: **240 m³**
Test sample of area: **10,8 m²**

Frequency [Hz]	α_s
125	0.00
250	0.07
500	0.24
1000	0.57
2000	0.83
4000	1.04
NRC	0.45
SAA	0.43

The characteristic curve of sound absorption frequency of specimen

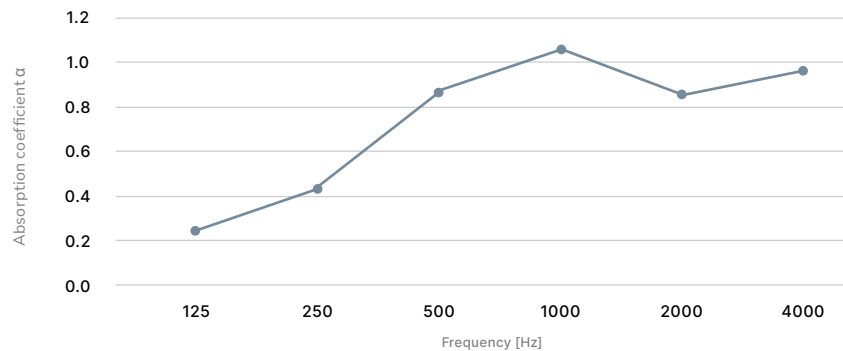


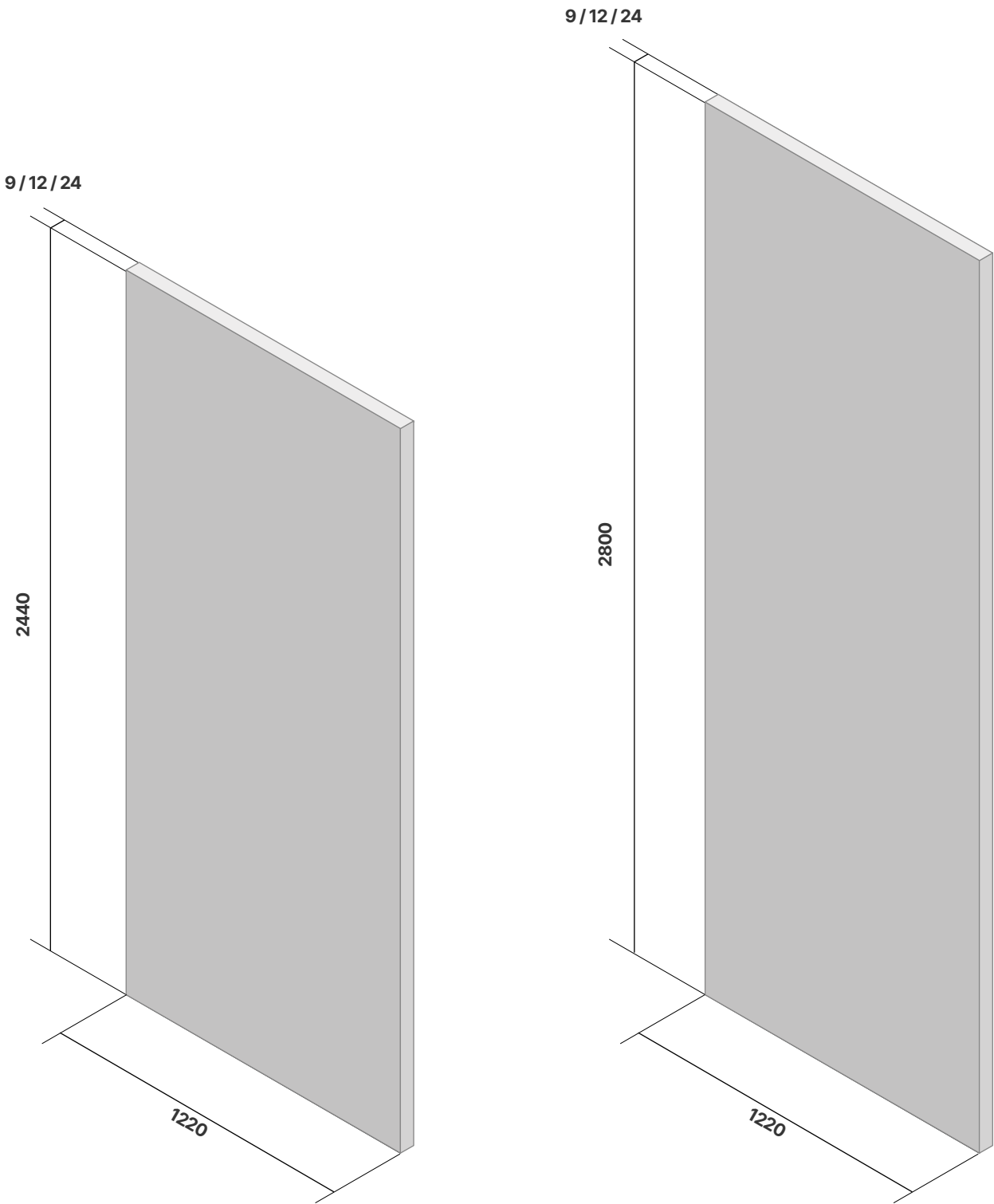
Tested material: **24 mm PET Felt**
Test method: **ASTM C423-22**

Reverberation chamber volume: **260 m³**
Test sample of area: **11,6 m²**

Frequency [Hz]	α_s
125	0.25
250	0.45
500	0.88
1000	1.06
2000	0.85
4000	0.97
NRC	0.80
SAA	0.82

The characteristic curve of sound absorption frequency of specimen







Keep in mind that the colors of PET felts and fabrics may vary slightly from what you see in the catalog.

For the most accurate representation, we recommend referring to our sample book or sample individually sent. Due to the production process of both fiber and PET felt, there may be slight variations in material between different production batches. Additionally, please take into consideration that PET panels have distinct left and right sides so try always to present only one side of the sheet. Due to the manufacturing process, the felt board may show differences in shade depending on the direction of laying. We recommend laying all pieces in one direction to avoid undesirable visual effects. This is particularly important to consider when installing larger structures, such as wall-mounted panels or acoustic drop ceiling.

Do you have any questions?
Contact with us!

