

9.- RESULTS

Measurement of sound absorption according to UNE-EN ISO 354:2004

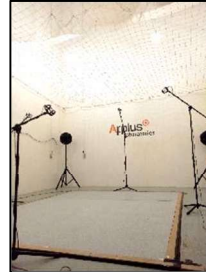
Client: FYTISA – Fieltrros y tejidos industriales, S.L.

Test specimen:

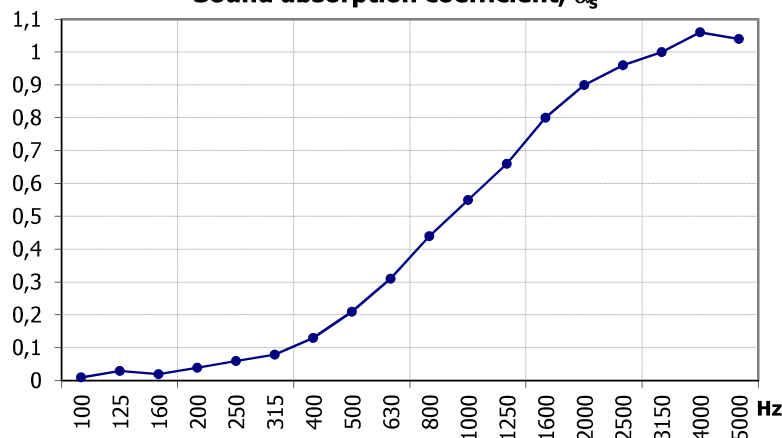
100 % polyester felt panel referenced **TEXFEL ECHO 12**, of 12 mm thickness.

Test specimen area, S : 10,06 m² – 2744 x 3665 mm

Date of test: 25/05/2022



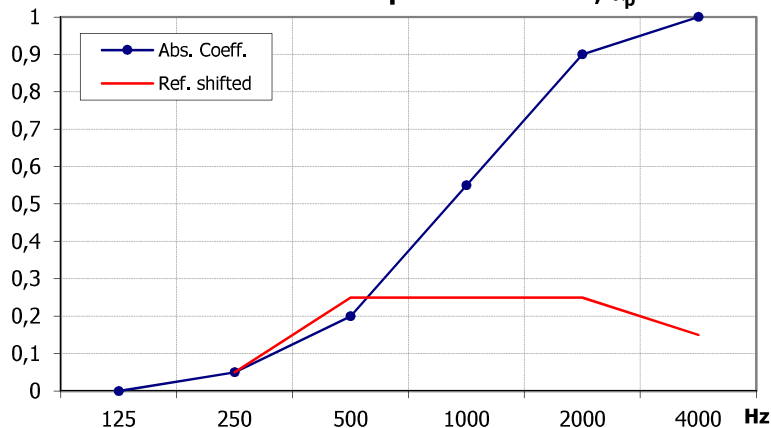
Sound absorption coefficient, α_s



Sound abs. coefficient, α_s

Freq. (Hz)	α_s
100	0,01
125	0,03
160	0,02
200	0,04
250	0,06
315	0,08
400	0,13
500	0,21
630	0,31
800	0,44
1000	0,55
1250	0,66
1600	0,80
2000	0,90
2500	0,96
3150	1,00
4000	1,06
5000	1,04

Practical sound absorption coefficient, α_p



Practical sound absorption coefficient, α_p

Frec. (Hz)	α_p
125	0,00
250	0,05
500	0,20
1000	0,55
2000	0,90
4000	1,00

Weighted sound absorption coefficient (UNE-EN ISO 11654:1998)

$\alpha_w = 0,25$ (MH)

It is highly recommended to use the single number weighted sound absorption coefficient, α_w , together with frequency-dependent values of sound absorption coefficient.

Absorption classes according to α_w (UNE-EN ISO 11654:1998)

A (>0,85)
B (0,80 to 0,85)
C (0,60 to 0,75)
D (0,30 to 0,55)
E (0,15 to 0,25)
Not classified (<0,15)

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9.- RESULTS

Measurement of sound absorption according to UNE-EN ISO 354:2004

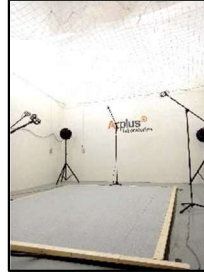
Client: FYTISA – Fieltrros y tejidos industriales, S.L.

Test specimen:

100 % polyester felt panel referenced **TEXFEL ECHO 12**, of 12 mm thickness. Test carried out with 50 mm air cavity.

Test specimen area, S: 10,06 m² – 2744 x 3665 mm

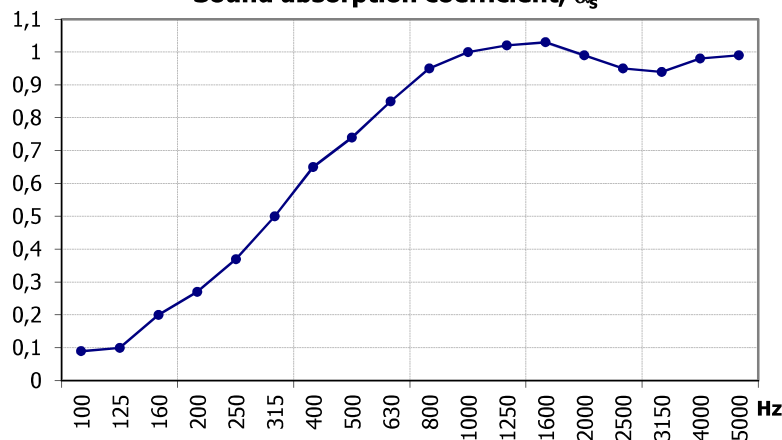
Date of test: 26/05/2022



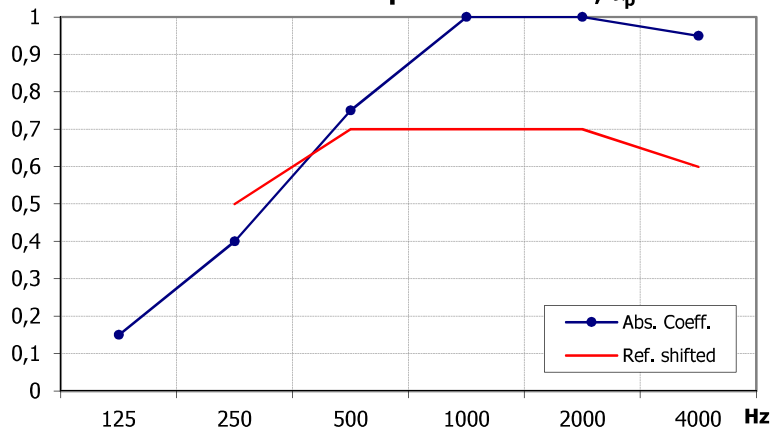
Sound abs. coefficient, α_s

Freq. (Hz)	α_s
100	0,09
125	0,10
160	0,20
200	0,27
250	0,37
315	0,50
400	0,65
500	0,74
630	0,85
800	0,95
1000	1,00
1250	1,02
1600	1,03
2000	0,99
2500	0,95
3150	0,94
4000	0,98
5000	0,99

Sound absorption coefficient, α_s



Practical sound absorption coefficient, α_p



Practical sound absorption coefficient, α_p

Frec. (Hz)	α_p
125	0,15
250	0,40
500	0,75
1000	1,00
2000	1,00
4000	0,95

Weighted sound absorption coefficient (UNE-EN ISO 11654:1998)

$\alpha_w = 0,70$ (MH)

It is highly recommended to use the single number weighted sound absorption coefficient, α_w , together with frequency-dependent values of sound absorption coefficient.

Absorption classes according to α_w (UNE-EN ISO 11654:1998)

A (>0,85)
B (0,80 to 0,85)
C (0,60 to 0,75)
D (0,30 to 0,55)
E (0,15 to 0,25)
Not classified (<0,15)

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9.- RESULTS

Measurement of sound absorption according to UNE-EN ISO 354:2004

Client: FYTISA – Filtros y tejidos industriales, S.L.

Test specimen:

100 % polyester felt panel referenced **TEXFEL ECHO 12**, of 12 mm thickness. Test carried out with 50 mm air cavity with stone wool placed inside.

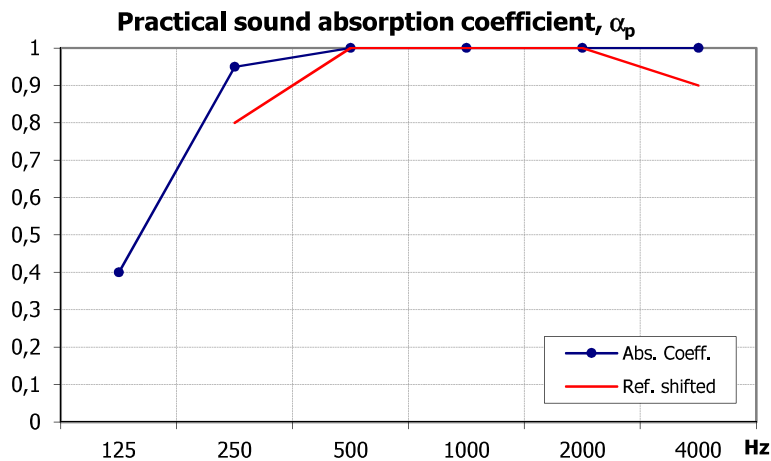
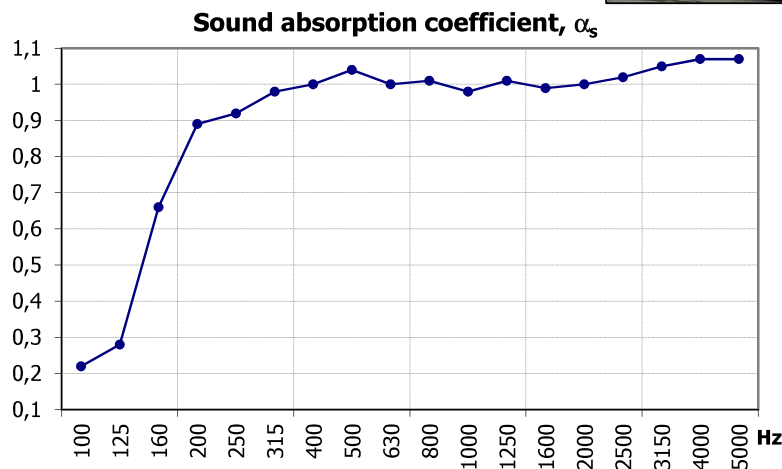
Test specimen area, S: 10,06 m² – 2744 x 3665 mm

Date of test: 26/05/2022



Sound abs. coefficient, α_s

Freq. (Hz)	α_s
100	0,22
125	0,28
160	0,66
200	0,89
250	0,92
315	0,98
400	1,00
500	1,04
630	1,00
800	1,01
1000	0,98
1250	1,01
1600	0,99
2000	1,00
2500	1,02
3150	1,05
4000	1,07
5000	1,07



Practical sound absorption coefficient, α_p

Frec. (Hz)	α_p
125	0,40
250	0,95
500	1,00
1000	1,00
2000	1,00
4000	1,00

Weighted sound absorption coefficient (UNE-EN ISO 11654:1998)

$\alpha_w = 1,00$

It is highly recommended to use the single number weighted sound absorption coefficient, α_w , together with frequency-dependent values of sound absorption coefficient.

Absorption classes according to α_w (UNE-EN ISO 11654:1998)

A (>0,85)
B (0,80 to 0,85)
C (0,60 to 0,75)
D (0,30 to 0,55)
E (0,15 to 0,25)
Not classified (<0,15)

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