

Structure of the tested object**s.a.c. suono acoustic panel 62mm**

s.a.c. basic layer, application thickness 2-3mm

s.a.c. topcoat final layer, application thickness 1-2mm

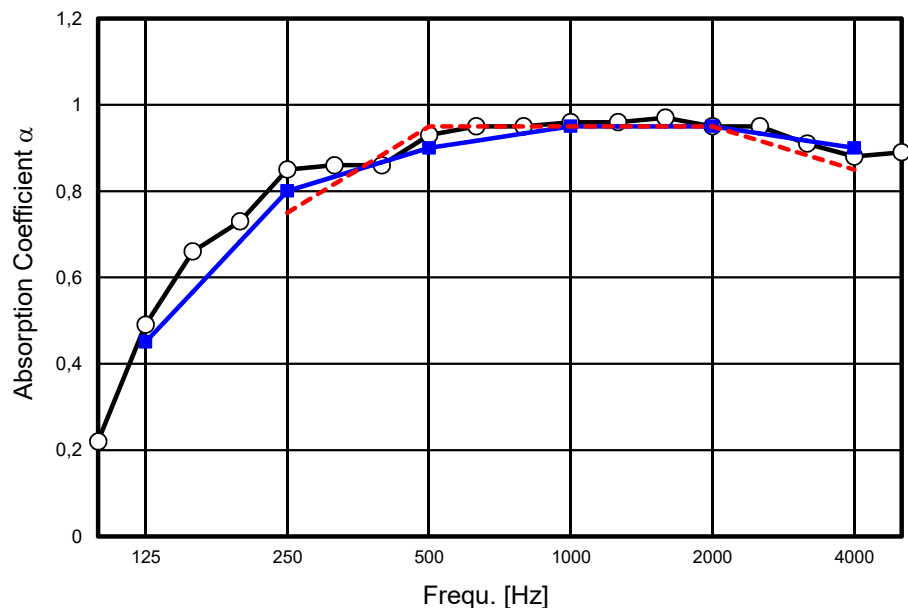
Acoustic panels in the frame (65 mm) loosely laid on the reverberation room floor, butt-jointed, panel joints are taped

Panel size 600 x 800 mm, ca. 6,55 kg/m²

Temperatur	Relative humidity	Air pressure	Chamber volume
With test object 20,0 °C	42,0 %	98,8 kPa	198,3 m ³
Empty 22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,22	0,45
125	0,49	
160	0,66	
200	0,73	0,80
250	0,85	
315	0,86	
400	0,86	0,90
500	0,93	
630	0,95	
800	0,95	0,95
1000	0,96	
1250	0,96	
1600	0,97	0,95
2000	0,95	
2500	0,95	
3150	0,91	0,90
4000	0,88	
5000	0,89	

1) DIN EN ISO 11654:1997



— α_s — α_p - - - Reference curve

Evaluation

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,95$
Sound absorption class according DIN EN ISO 11654:1997	A
Verbal evaluation according to VDI 3755 (2000-02)	Highly absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,90

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Structure of the tested object**s.a.c. suono acoustic panel 42mm**

s.a.c. basic layer, application thickness 2-3mm

s.a.c. topcoat final layer, application thickness 1-2mm

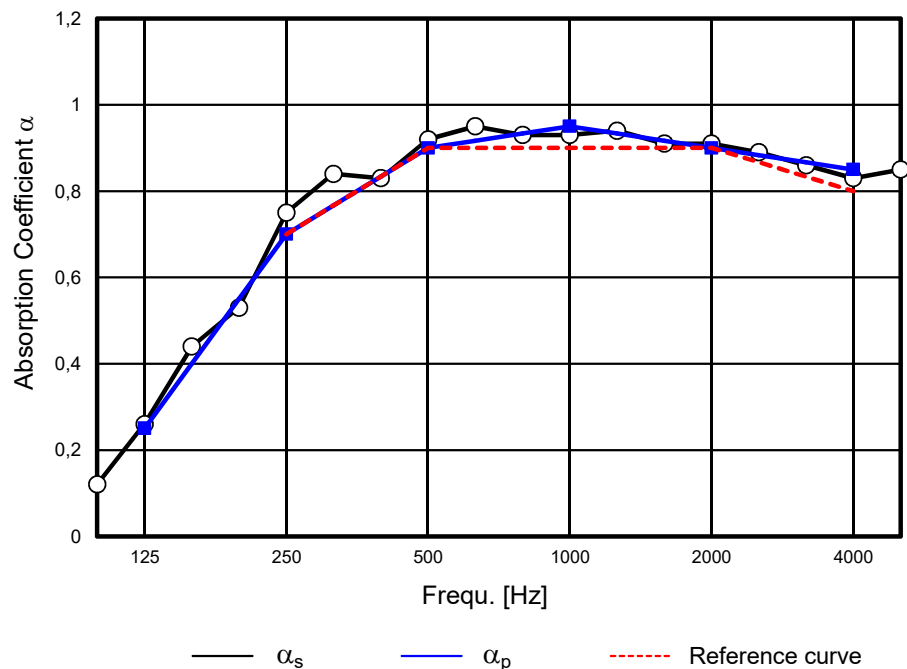
Acoustic panels in the frame (65 mm) loosely laid on the reverberation room floor, butt-jointed, panel joints are taped

Panel size 600 x 800 mm, ca. 4,56 kg/m²

	Temperatur	Relative humidity	Air pressure	Chamber volume
With test object	19,9 °C	41,3 %	98,8 kPa	198,3 m ³
Empty	22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,12	0,25
125	0,26	
160	0,44	
200	0,53	0,70
250	0,75	
315	0,84	
400	0,83	0,90
500	0,92	
630	0,95	
800	0,93	0,95
1000	0,93	
1250	0,94	
1600	0,91	0,90
2000	0,91	
2500	0,89	
3150	0,86	0,85
4000	0,83	
5000	0,85	

1) DIN EN ISO 11654:1997

**Evaluation**

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,90$
Sound absorption class according DIN EN ISO 11654:1997	A
Verbal evaluation according to VDI 3755 (2000-02)	Highly absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,85

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s.a.c. basic layer, application thickness 2-3mm

s.a.c. topcoat final layer, application thickness 1-2mm

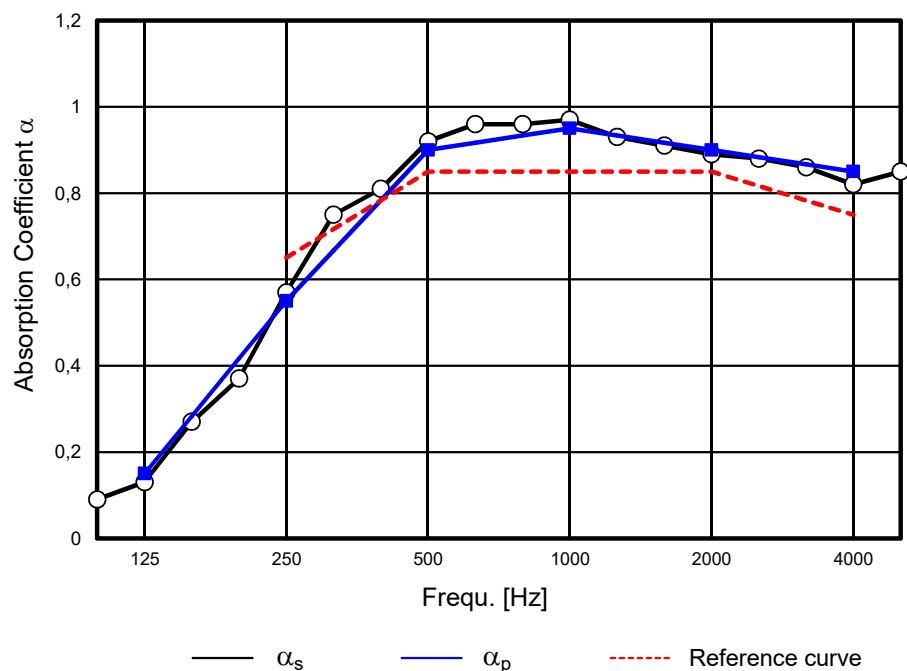
Acoustic panels in the frame (65 mm) loosely laid on the reverberation room floor, butt-jointed, panel joints are taped

Panel size 600 x 800 mm, ca. 3,90 kg/m²

Temperatur	Relative humidity	Air pressure	Chamber volume
With test object 20,4 °C	38,3 %	98,8 kPa	198,3 m ³
Empty 22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,09	
125	0,13	0,15
160	0,27	
200	0,37	
250	0,57	0,55
315	0,75	
400	0,81	
500	0,92	0,90
630	0,96	
800	0,96	
1000	0,97	0,95
1250	0,93	
1600	0,91	
2000	0,89	0,90
2500	0,88	
3150	0,86	
4000	0,82	0,85
5000	0,85	

1) DIN EN ISO 11654:1997

**Evaluation**

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,85$
Sound absorption class according DIN EN ISO 11654:1997	B
Verbal evaluation according to VDI 3755 (2000-02)	Highly absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,85

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Structure of the tested object**s.a.c. suono acoustic panel 22mm**

s.a.c. basic layer, application thickness 2-3mm

s.a.c. topcoat final layer, application thickness 1-2mm

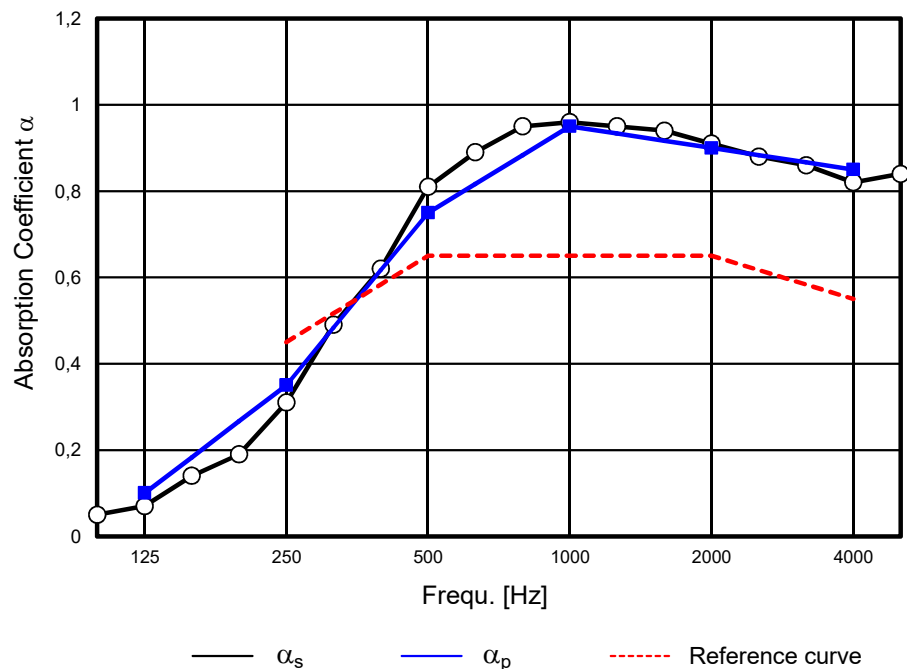
Acoustic panels in the frame (65 mm) loosely laid on the reverberation room floor, butt-jointed, panel joints are taped

Panel size 600 x 800 mm, ca. 2,96 kg/m²

Temperatur	Relative humidity	Air pressure	Chamber volume
With test object 20,0 °C	39,2 %	98,8 kPa	198,3 m ³
Empty 22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,05	0,10
125	0,07	
160	0,14	
200	0,19	0,35
250	0,31	
315	0,49	
400	0,62	0,75
500	0,81	
630	0,89	
800	0,95	0,95
1000	0,96	
1250	0,95	
1600	0,94	0,90
2000	0,91	
2500	0,88	
3150	0,86	0,85
4000	0,82	
5000	0,84	

1) DIN EN ISO 11654:1997

**Evaluation**

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,65$
Sound absorption class according DIN EN ISO 11654:1997	C
Verbal evaluation according to VDI 3755 (2000-02)	High absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,75

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s.a.c. basic layer, application thickness 2-3mm

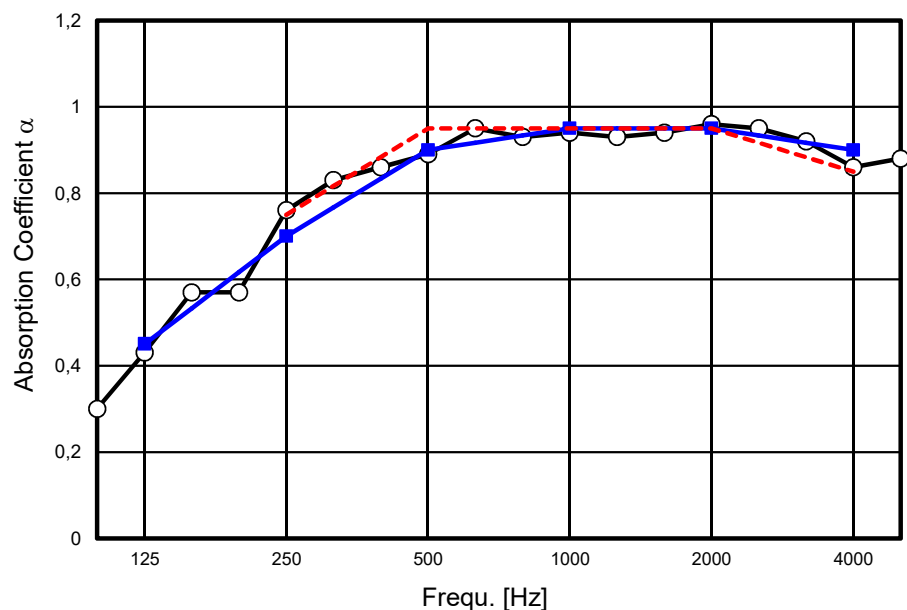
s.a.c. topcoat final layer, application thickness 1-2mm

Subconstruction: 12,5 mm GKB on CD profiles, closed surface
(E200 test frame).Acoustic panels laid loosely on the subconstruction in the test frame
(E 65 mm), butt-jointed, panel joints are taped;Panel size 600 x 800 mm, approx. 6,55 kg/m²**Total installation height 265 mm**

	Temperatur	Relative humidity	Air pressure	Chamber volume
With test object	20,4 °C	46,1 %	99,3 kPa	198,3 m ³
Empty	22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,30	
125	0,43	0,45
160	0,57	
200	0,57	
250	0,76	0,70
315	0,83	
400	0,86	
500	0,89	0,90
630	0,95	
800	0,93	
1000	0,94	0,95
1250	0,93	
1600	0,94	
2000	0,96	0,95
2500	0,95	
3150	0,92	
4000	0,86	0,90
5000	0,88	

1) DIN EN ISO 11654:1997



— α_s — α_p - - - Reference curve

Evaluation

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,95$
Sound absorption class according DIN EN ISO 11654:1997	A
Verbal evaluation according to VDI 3755 (2000-02)	Highly absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,90

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Structure of the tested object**s.a.c. suono acoustic panel 42mm**

s.a.c. basic layer, application thickness 2-3mm

s.a.c. topcoat final layer, application thickness 1-2mm

Subconstruction: 12,5 mm GKB on CD profiles, closed surface
(E200 test frame).

Acoustic panels laid loosely on the subconstruction in the test frame

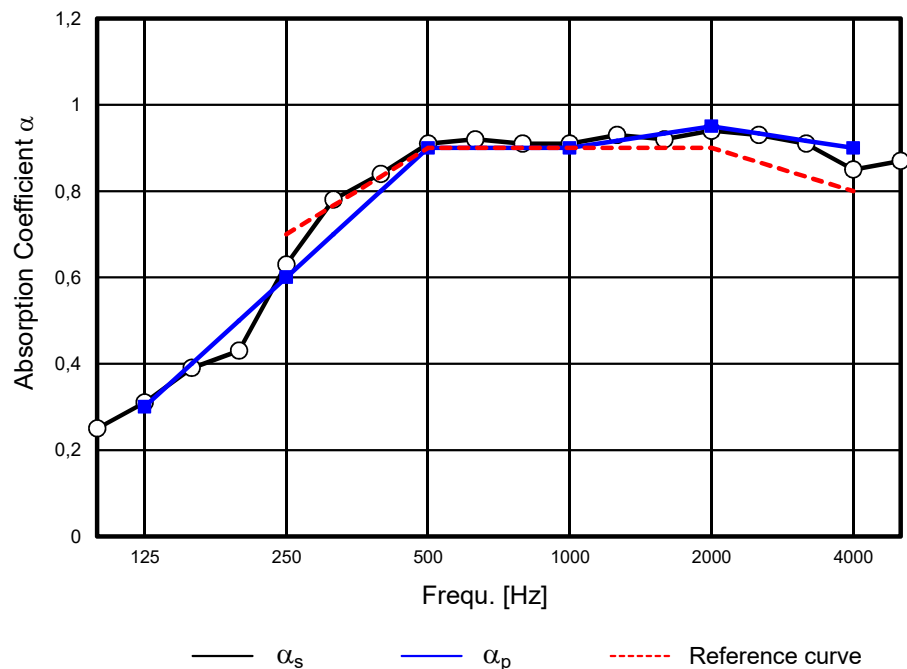
(E 65 mm), butt-jointed, panel joints are taped;

Panel size 600 x 800 mm, approx. 4,56 kg/m²**Total installation height 265 mm**

	Temperatur	Relative humidity	Air pressure	Chamber volume
With test object	20,4 °C	39,2 %	99,5 kPa	198,3 m ³
Empty	22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,25	
125	0,31	0,30
160	0,39	
200	0,43	
250	0,63	0,60
315	0,78	
400	0,84	
500	0,91	0,90
630	0,92	
800	0,91	
1000	0,91	0,90
1250	0,93	
1600	0,92	
2000	0,94	0,95
2500	0,93	
3150	0,91	
4000	0,85	0,90
5000	0,87	

1) DIN EN ISO 11654:1997

**Evaluation**

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,90$
Sound absorption class according DIN EN ISO 11654:1997	A
Verbal evaluation according to VDI 3755 (2000-02)	Highly absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,85

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s.a.c. topcoat final layer, application thickness 1-2mm

Subconstruction: 12,5 mm GKB on CD profiles, closed surface
(E200 test frame).

Acoustic panels laid loosely on the subconstruction in the test frame

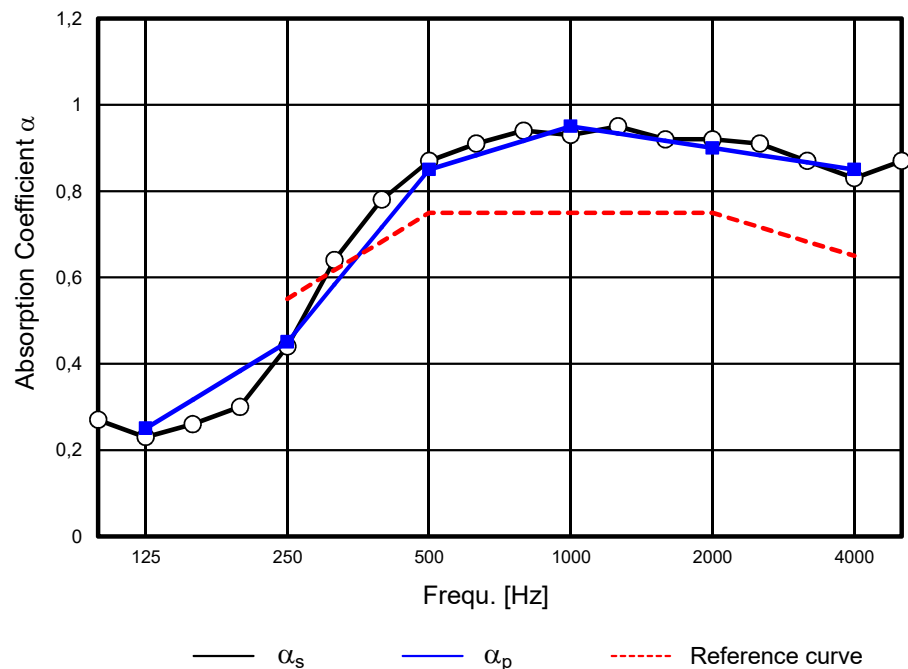
(E 65 mm), butt-jointed, panel joints are taped;

Panel size 600 x 800 mm, approx. 3,90 kg/m²**Total installation height 265 mm**

	Temperatur	Relative humidity	Air pressure	Chamber volume
With test object	20,8 °C	44,2 %	99,4 kPa	198,3 m ³
Empty	22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,27	
125	0,23	0,25
160	0,26	
200	0,30	
250	0,44	0,45
315	0,64	
400	0,78	
500	0,87	0,85
630	0,91	
800	0,94	
1000	0,93	0,95
1250	0,95	
1600	0,92	
2000	0,92	0,90
2500	0,91	
3150	0,87	
4000	0,83	0,85
5000	0,87	

1) DIN EN ISO 11654:1997

**Evaluation**

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,75$
Sound absorption class according DIN EN ISO 11654:1997	C
Verbal evaluation according to VDI 3755 (2000-02)	High absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,80

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s.a.c. basic layer, application thickness 2-3mm

s.a.c. topcoat final layer, application thickness 1-2mm

Subconstruction: 12,5 mm GKB on CD profiles, closed surface
(E200 test frame).

Acoustic panels laid loosely on the subconstruction in the test frame

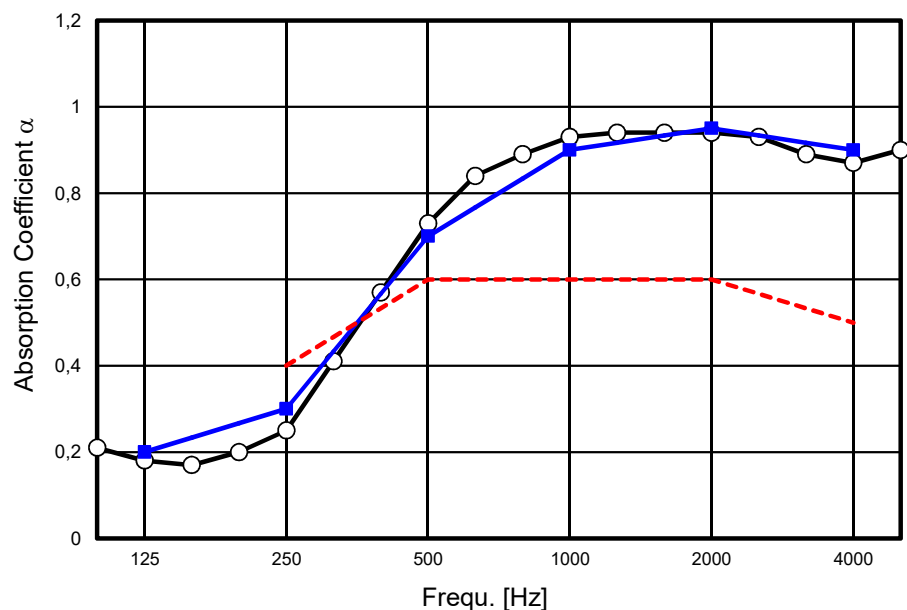
(E 65 mm), butt-jointed, panel joints are taped;

Panel size 600 x 800 mm, approx. 2,96 kg/m²**Total installation height 265 mm**

Temperatur	Relative humidity	Air pressure	Chamber volume
With test object 20,6 °C	39,0 %	99,4 kPa	198,3 m ³
Empty 22,9 °C	57,1 %	98,7 kPa	Size of proofed material 12,0 m ²

f [Hz]	α_s	α_p ¹⁾
100	0,21	
125	0,18	0,20
160	0,17	
200	0,20	
250	0,25	0,30
315	0,41	
400	0,57	
500	0,73	0,70
630	0,84	
800	0,89	
1000	0,93	0,90
1250	0,94	
1600	0,94	
2000	0,94	0,95
2500	0,93	
3150	0,89	
4000	0,87	0,90
5000	0,90	

1) DIN EN ISO 11654:1997



— α_s — α_p - - - Reference curve

Evaluation

Sound absorption coefficient according DIN EN ISO 11654:1997	$\alpha_w = 0,60$ (MH)
Sound absorption class according DIN EN ISO 11654:1997	C
Verbal evaluation according to VDI 3755 (2000-02)	High absorbent
Noise Reduction Coefficient nach ASTM C423:1989	NRC = 0,70

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