

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

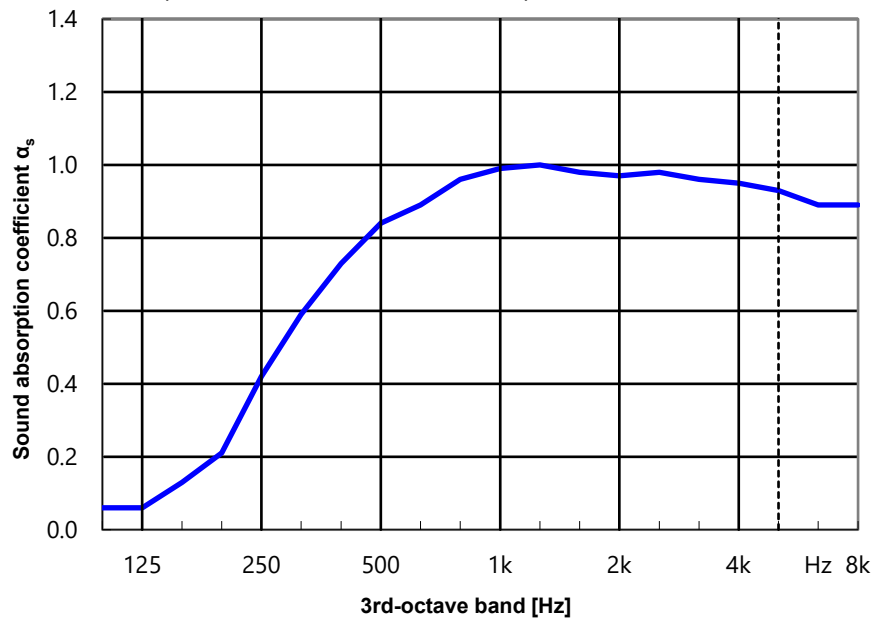
Test setup 2: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic, application thickness 3mm
 22 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 In 30 mm aluminum test frame with gap taped
 Total installation height 27 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.06
125	0.06
160	0.13
200	0.21
250	0.42
315	0.59
400	0.73
500	0.84
630	0.89
800	0.96
1000	0.99
1250	1.00
1600	0.98
2000	0.97
2500	0.98
3150	0.96
4000	0.95
5000	0.93
6300	0.89
8000	0.89

Parameters

Date: 08.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 60.6 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : **0.70 (MH)**
 α_p : 250 Hz: 0.40 500 Hz: 0.80 1000 Hz: 1.00 2000 Hz: 1.00 4000 Hz: 0.95

Sound absorber class according to EN ISO 11 654: C

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

- - - - - Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

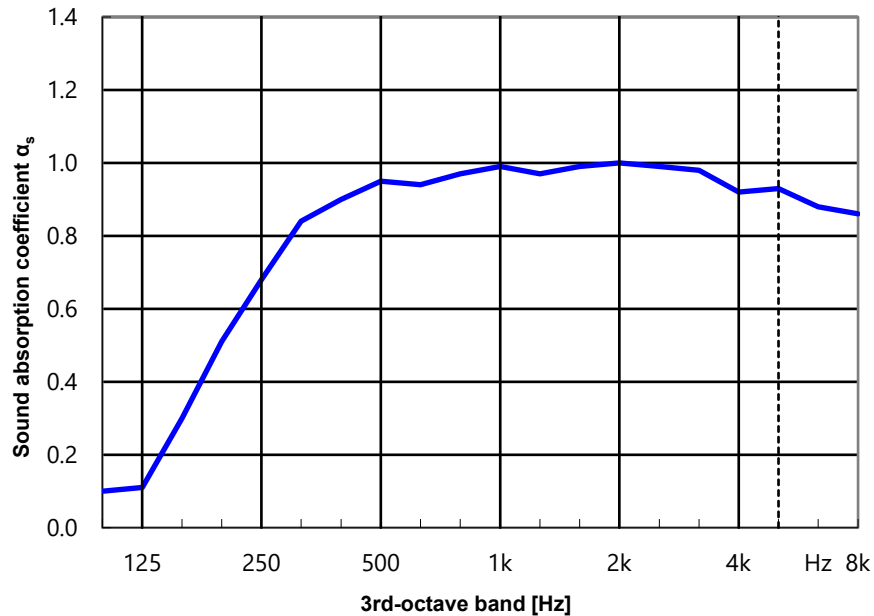
Test setup 3: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic application thickness 3mm
 32 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 In 30 mm aluminum test frame with gap taped
 Total installation height 37 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.10
125	0.11
160	0.30
200	0.51
250	0.68
315	0.84
400	0.90
500	0.95
630	0.94
800	0.97
1000	0.99
1250	0.97
1600	0.99
2000	1.00
2500	0.99
3150	0.98
4000	0.92
5000	0.93
6300	0.88
8000	0.86

Parameters

Date: 08.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 58 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : **0.95**
 α_p : 250 Hz: 0.70 500 Hz: 0.95 1000 Hz: 1.00 2000 Hz: 1.00 4000 Hz: 0.95

Sound absorber class according to EN ISO 11 654: A

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

- - - - - Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

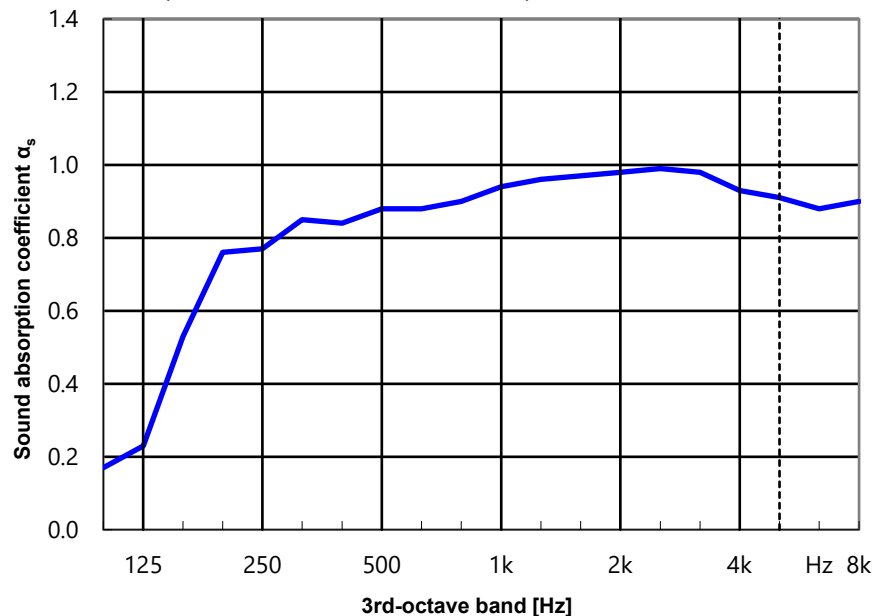
Test setup 4: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic application thickness 3mm
 42 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 In 30 mm aluminum test frame with gap taped
 Total installation height 47 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.17
125	0.23
160	0.53
200	0.76
250	0.77
315	0.85
400	0.84
500	0.88
630	0.88
800	0.90
1000	0.94
1250	0.96
1600	0.97
2000	0.98
2500	0.99
3150	0.98
4000	0.93
5000	0.91
6300	0.88
8000	0.90

Parameters

Date: 08.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 60 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : 0.95
 α_p : 250 Hz: 0.80 500 Hz: 0.85 1000 Hz: 0.95 2000 Hz: 1.00 4000 Hz: 0.95

Sound absorber class according to EN ISO 11 654: A

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

----- Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

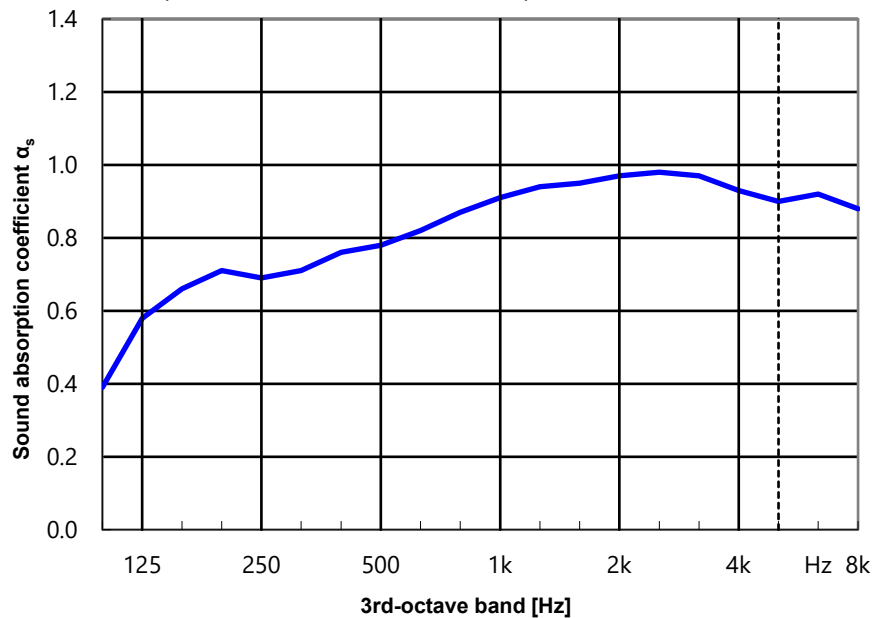
Test setup 5: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic application thickness 3mm
 62 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 In 60 mm aluminum test frame with gap taped
 Total installation height 67 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.39
125	0.58
160	0.66
200	0.71
250	0.69
315	0.71
400	0.76
500	0.78
630	0.82
800	0.87
1000	0.91
1250	0.94
1600	0.95
2000	0.97
2500	0.98
3150	0.97
4000	0.93
5000	0.90
6300	0.92
8000	0.88

Parameters

Date: 08.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 58.6 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : **0.90**
 α_p : 250 Hz: 0.70 500 Hz: 0.80 1000 Hz: 0.90 2000 Hz: 0.95 4000 Hz: 0.95

Sound absorber class according to EN ISO 11 654: A

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

----- Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

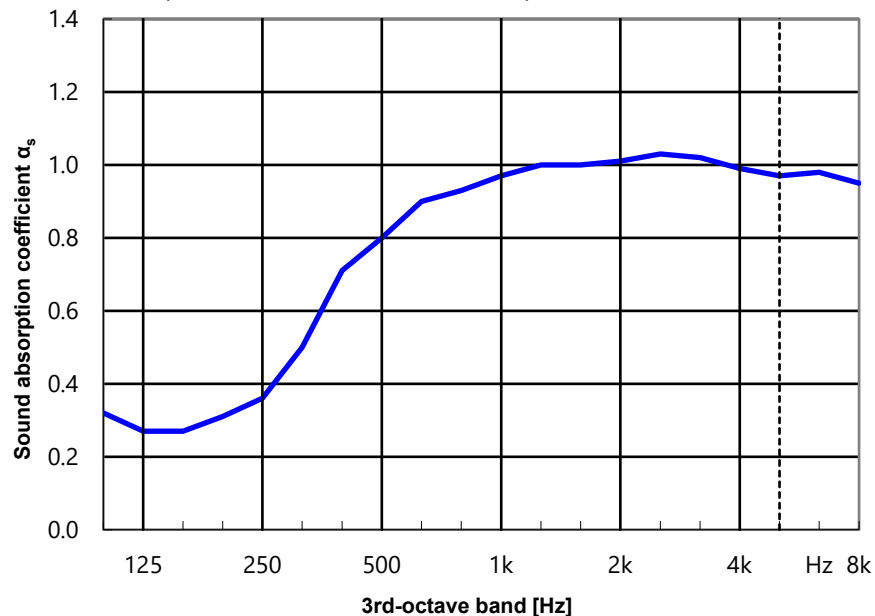
Test setup 6: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic, application thickness 3mm
 22 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 12 mm GKB plate (Knauf) and 200 mm air gap
 In 200 mm wood test frame + 40 mm aluminum test frame with tap taped
 Total installation height 239 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.32
125	0.27
160	0.27
200	0.31
250	0.36
315	0.50
400	0.71
500	0.80
630	0.90
800	0.93
1000	0.97
1250	1.00
1600	1.00
2000	1.01
2500	1.03
3150	1.02
4000	0.99
5000	0.97
6300	0.98
8000	0.95

Parameters

Date: 09.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 64.1 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : **0.70 (MH)**
 α_p : 250 Hz: 0.40 500 Hz: 0.80 1000 Hz: 0.95 2000 Hz: 1.00 4000 Hz: 1.00

Sound absorber class according to EN ISO 11 654: C

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

----- Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

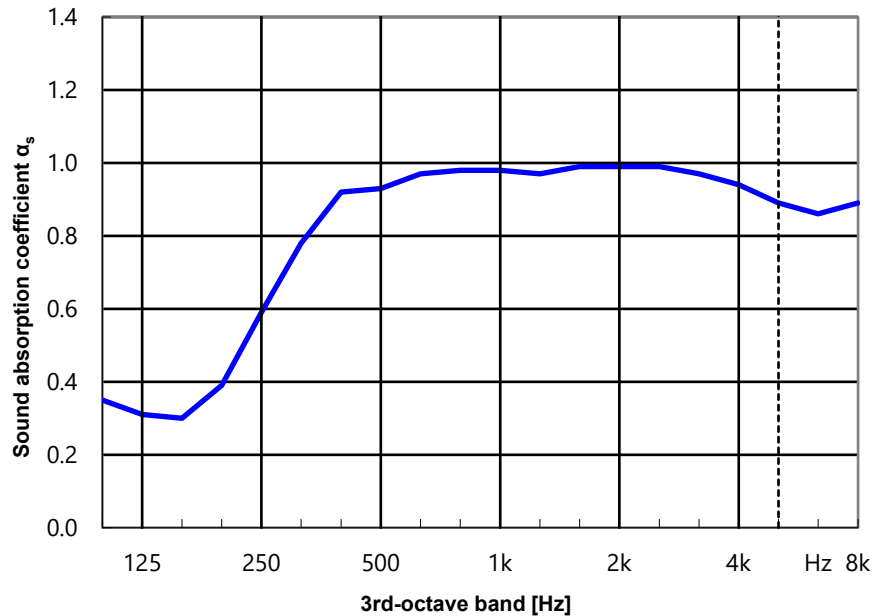
Test setup 7: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic, application thickness 3mm
 32 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 12 mm GKB plate (Knauf) and 200 mm air gap
 In 200 mm wood test frame + 50 mm aluminum test frame with tap taped
 Total installation height 249 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.35
125	0.31
160	0.30
200	0.39
250	0.59
315	0.78
400	0.92
500	0.93
630	0.97
800	0.98
1000	0.98
1250	0.97
1600	0.99
2000	0.99
2500	0.99
3150	0.97
4000	0.94
5000	0.89
6300	0.86
8000	0.89

Parameters

Date: 09.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 63.5 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : **0.90**
 α_p : 250 Hz: 0.60 500 Hz: 0.95 1000 Hz: 1.00 2000 Hz: 1.00 4000 Hz: 0.95

Sound absorber class according to EN ISO 11 654: A

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

----- Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

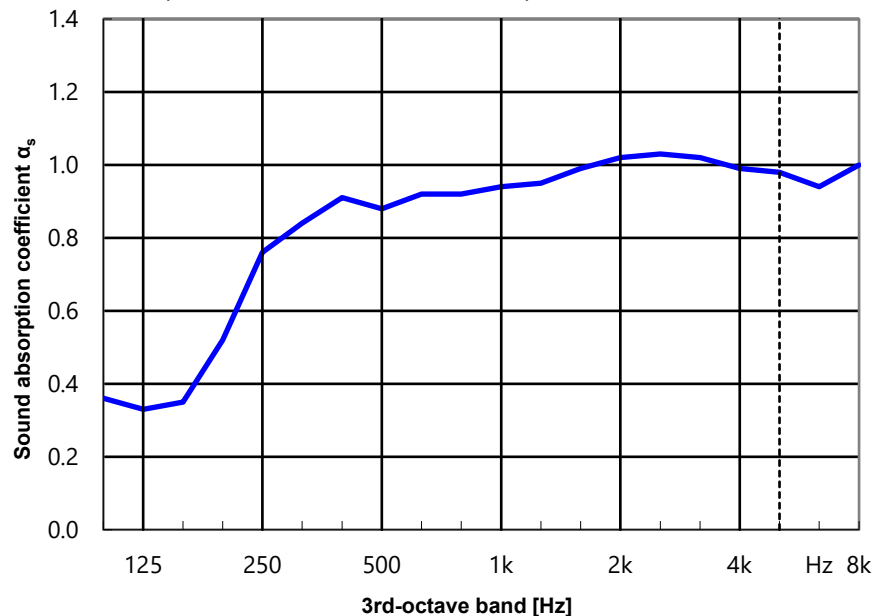
Test setup 8: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic, application thickness 3mm
 42 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 12 mm GKB plate (Knauf) and 200 mm air gap
 In 200 mm wood test frame + 60 mm aluminum test frame with tap taped
 Total installation height 259 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.36
125	0.33
160	0.35
200	0.52
250	0.76
315	0.84
400	0.91
500	0.88
630	0.92
800	0.92
1000	0.94
1250	0.95
1600	0.99
2000	1.02
2500	1.03
3150	1.02
4000	0.99
5000	0.98
6300	0.94
8000	1.00

Parameters

Date: 09.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.5°C Relative humidity: 63.8 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : **0.95**
 α_p : 250 Hz: 0.70 500 Hz: 0.90 1000 Hz: 0.95 2000 Hz: 1.00 4000 Hz: 1.00

Sound absorber class according to EN ISO 11 654: A

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

- - - - - Limit of frequency range for rating according to EN ISO 11654

Sound absorption coefficient (reverberation room)

Object: S.A.C. Silent Yellow-Line - Jointless acoustic system

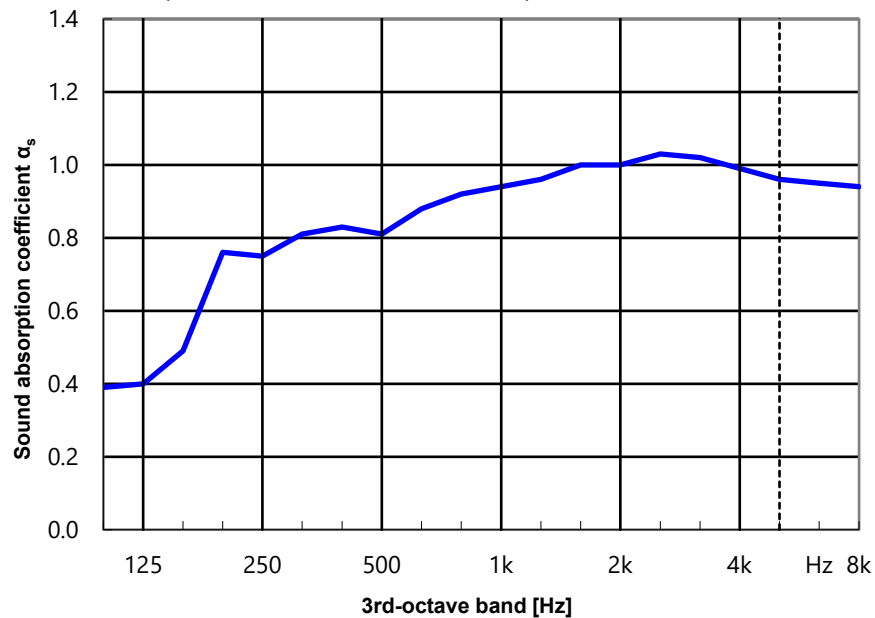
Test setup 9: SUONO acoustic panels from S.A.C. Silent AG
 Acoustic plaster s.a.c. topcoat, application thickness 2mm
 Acoustic plaster s.a.c. basic, application thickness 3mm
 62 mm s.a.c. suono panel with acoustic fleece, 110 kg/m³
 12 mm GKB plate (Knauf) and 200 mm air gap
 In 200 mm wood test frame + 80 mm aluminum test frame with tap taped
 Total installation height 279 mm

Frequency f [Hz]	α_s 3rd-octave
100	0.39
125	0.40
160	0.49
200	0.76
250	0.75
315	0.81
400	0.83
500	0.81
630	0.88
800	0.92
1000	0.94
1250	0.96
1600	1.00
2000	1.00
2500	1.03
3150	1.02
4000	0.99
5000	0.96
6300	0.95
8000	0.94

Parameters

Date: 09.09.2020

Reverberation room, Empa Dübendorf, volume V: 215 m³
 Temperature: 21.6°C Relative humidity: 64.9 %
 Sample size: 3000 x 4000 Sample area S: 12.0 m²



Rating according to EN ISO 11 654:1997: α_w : 0.95
 α_p : 250 Hz: 0.75 500 Hz: 0.85 1000 Hz: 0.95 2000 Hz: 1.00 4000 Hz: 1.00

Sound absorber class according to EN ISO 11 654: A

Measurement: EN ISO 354:2003

MLS-test signal; 3rd-octave filtering; T20 from integrated impulse response

- - - - Limit of frequency range for rating according to EN ISO 11654