

Measurement of sound absorption coefficient according to DIN EN ISO 354

Measurement protocol



General test specimen description according to the manufacturer:

3110 Linto Joy FR
Material: 100% PES FR
Fabric Dimensions: 5000 x 3000 x 0,4 mm
The fabric was gathered for the measurement (25% extra fabric)
Wall distance: 150 mm
Test area: 4000 x 3000 mm

No. Curve: Kurve (1)
Manufacturer: Zimmer + Rohde GmbH
Designation: 3110 Linto Joy FR

Description of test setup:

Quantity: 1 Piece
Length: 4000 mm
Width: 3000 mm
Product height: 0,4 mm
Total height: 150,4 mm
Total test area: 12,00 m²

Test standard requirements:

Sound Absorption Coefficient α_w
Corresponds to ISO 354: yes

More information:

Figure/Photo - Measurement setup



Reverberation chamber and measurement method:

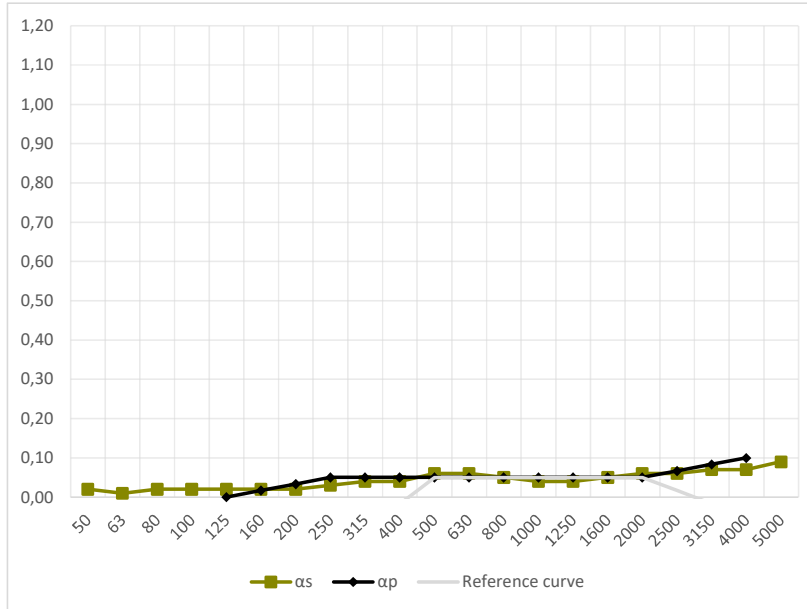
Measuring method: Sinus Sweep
Vol. echo chamber: 391,6 m³ Room surface echo chamber: 322,2 m²
Rel. humidity meas. empty: 53,9 % Rel. humidity meas. with test specimen: 53,8 %
Temp. meas. empty: 19,2 °C Temp. measurement with test specimen: 19,8 °C
Air pressure empty: 99,2 kPa Air pressure with test specimen: 99,2 kPa

Display:

Curve thirds: yes
Curve octaves: yes
Reference curve: yes

Sound Absorption Coefficient α for each frequency f (Hz)

Frequency f (Hz)	Thirds α_s (-)	Octaves α_p (-)
50	0,02	
63	0,01	0,00
80	0,02	
100	0,02	
125	0,02	0,00
160	0,02	
200	0,02	
250	0,03	0,05
315	0,04	
400	0,04	
500	0,06	0,05
630	0,06	
800	0,05	
1000	0,04	0,05
1250	0,04	
1600	0,05	
2000	0,06	0,05
2500	0,06	
3150	0,07	
4000	0,07	0,10
5000	0,09	



Evaluation according to DIN EN ISO 11654:

α_w	0,05	()
Class		()

Single number rating according to ASTM C423-23:

NRC	0,05
SAA	0,05

Test date: 26.05.2026

Examiner: Nele Götzelmann; B.Sc.

Creation data sheet: Nele Götzelmann; B.Sc.

Laboratory: Laboratory for acoustics; Fuchs Raumingenieure; Tillystraße 2, 90431 Nuremberg; Germany

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General test specimen description according to the manufacturer:

1061 Solid Pulse FR

Material: 100% PES FR

Fabric Dimensions: 5000 x 3000 x 0,7 mm

The fabric was gathered for the measurement (25% extra fabric)

Wall distance: 150 mm

Test area: 4000 x 3000 mm

No. Curve: Kurve (2)

Manufacturer: Zimmer + Rohde GmbH

Designation: 1061 Solid Pulse FR

Description of test setup:

Quantity: 1 Piece
Length: 4000 mm
Width: 3000 mm
Product height: 0,7 mm
Total height: 150,7 mm
Total test area: 12,00 m²

Test standard requirements:

Sound Absorption Coefficient

α_w

Corresponds to ISO 354:

yes

More information:

Figure/Photo - Measurement setup



Reverberation chamber and measurement method:

Measuring method: Sinus Sweep

Vol. echo chamber: 391,6 m³

Room surface echo chamber:

322,2 m²

Rel. humidity meas. empty: 53,9 %

Rel. humidity meas. with test specimen:

53,9 %

Temp. meas. empty: 19,2 °C

Temp. measurement with test specimen:

19,8 °C

Air pressure empty: 99,2 kPa

Air pressure with test specimen:

99,2 kPa

Display:

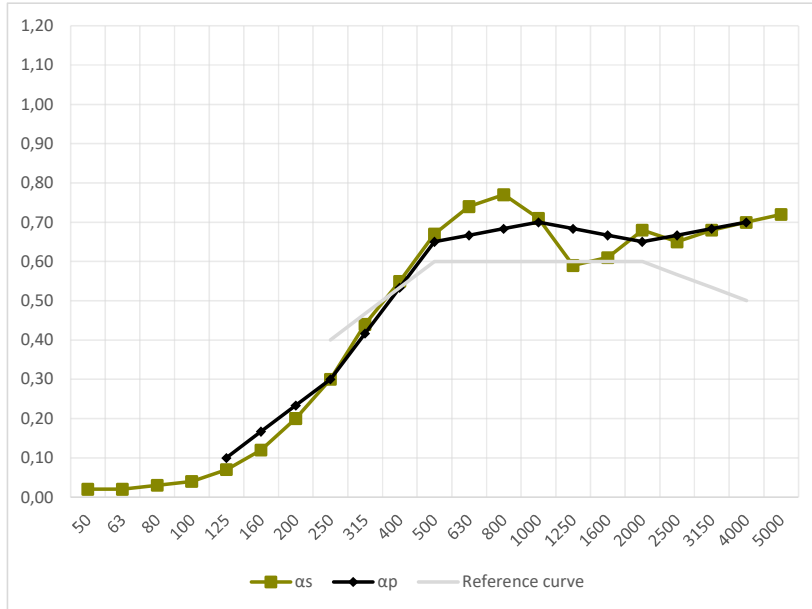
Curve thirds: yes

Curve octaves: yes

Reference curve: yes

Sound Absorption Coefficient α for each frequency f (Hz)

Frequency f (Hz)	Thirds α_s (-)	Octaves α_p (-)
50	0,02	
63	0,02	
80	0,03	0,00
100	0,04	
125	0,07	0,10
160	0,12	
200	0,20	
250	0,30	0,30
315	0,44	
400	0,55	
500	0,67	0,65
630	0,74	
800	0,77	
1000	0,71	0,70
1250	0,59	
1600	0,61	
2000	0,68	0,65
2500	0,65	
3150	0,68	
4000	0,70	0,70
5000	0,72	



Evaluation according to DIN EN ISO 11654:

α_w	0,60	()
Class	C	()

Single number rating according to ASTM C423-23:

NRC	0,60
SAA	0,58

Test date: 26.05.2026

Examiner: Nele Götzelmann; B.Sc.

Creation data sheet: Nele Götzelmann; B.Sc.

Laboratory: Laboratory for acoustics; Fuchs Raumingenieure; Tillystraße 2, 90431 Nuremberg; Germany

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General test specimen description according to the manufacturer:

1025 Melody
Material: 100% PES
Fabric Dimensions: 5000 x 3000 x 1,5 mm
The fabric was gathered for the measurement (25% extra fabric)
Wall distance: 150 mm
Test area: 4000 x 3000 mm

No. Curve: Kurve (3)
Manufacturer: Zimmer + Rohde GmbH
Designation: 1025 Melody

Description of test setup:

Quantity: 1 Piece
Length: 4000 mm
Width: 3000 mm
Product height: 1,5 mm
Total height: 151,5 mm
Total test area: 12,00 m²

Test standard requirements:

Sound Absorption Coefficient α_w
Corresponds to ISO 354: yes
More information:

Figure/Photo - Measurement setup



Reverberation chamber and measurement method:

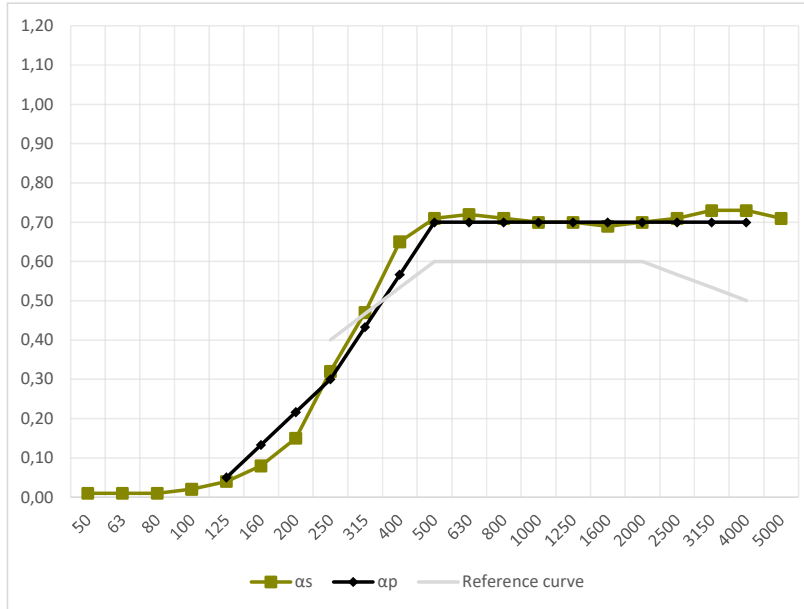
Measuring method: Sinus Sweep
Vol. echo chamber: 391,6 m³
Rel. humidity meas. empty: 53,9 %
Temp. meas. empty: 19,2 °C
Air pressure empty: 99,2 kPa
Room surface echo chamber: 322,2 m²
Rel. humidity meas. with test specimen: 53,9 %
Temp. measurement with test specimen: 19,8 °C
Air pressure with test specimen: 99,1 kPa

Display:

Curve thirds: yes
Curve octaves: yes
Reference curve: yes

Sound Absorption Coefficient α for each frequency f (Hz)

Frequency f (Hz)	Thirds α_s (-)	Octaves α_p (-)
50	0,01	
63	0,01	0,00
80	0,01	
100	0,02	
125	0,04	0,05
160	0,08	
200	0,15	
250	0,32	0,30
315	0,47	
400	0,65	
500	0,71	0,70
630	0,72	
800	0,71	
1000	0,70	0,70
1250	0,70	
1600	0,69	
2000	0,70	0,70
2500	0,71	
3150	0,73	
4000	0,73	0,70
5000	0,71	



Evaluation according to DIN EN ISO 11654:

α_w	0,60	()
Class	C	()

Single number rating according to ASTM C423-23:

NRC	0,60
SAA	0,60

Test date: 26.05.2026
Examiner: Nele Götzelmann; B.Sc.
Creation data sheet: Nele Götzelmann; B.Sc.
Laboratory: Laboratory for acoustics; Fuchs Raumingenieure; Tillystraße 2, 90431 Nuremberg; Germany

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General test specimen description according to the manufacturer:

11036 Snooze FR

Material: 100% PES, Coating 100% PAN FR

Fabric Dimensions: 5000 x 3000 x 1,1 mm

The fabric was gathered for the measurement (25% extra fabric)

Wall distance: 150 mm

Test area: 4000 x 3000 mm

No. Curve: Kurve (4)

Manufacturer: Zimmer + Rohde GmbH

Designation: 11036 Snooze FR

Description of test setup:

Quantity: 1 Piece
Length: 4000 mm
Width: 3000 mm
Product height: 1,1 mm
Total height: 151,1 mm
Total test area: 12,00 m²

Test standard requirements:

Sound Absorption Coefficient

α_w

Corresponds to ISO 354:

yes

More information:

Figure/Photo - Measurement setup



Reverberation chamber and measurement method:

Measuring method: Sinus Sweep

Vol. echo chamber: 391,6 m³

Room surface echo chamber:

322,2 m²

Rel. humidity meas. empty: 53,9 %

Rel. humidity meas. with test specimen:

54,0 %

Temp. meas. empty: 19,2 °C

Temp. measurement with test specimen:

19,7 °C

Air pressure empty: 99,2 kPa

Air pressure with test specimen:

99,1 kPa

Display:

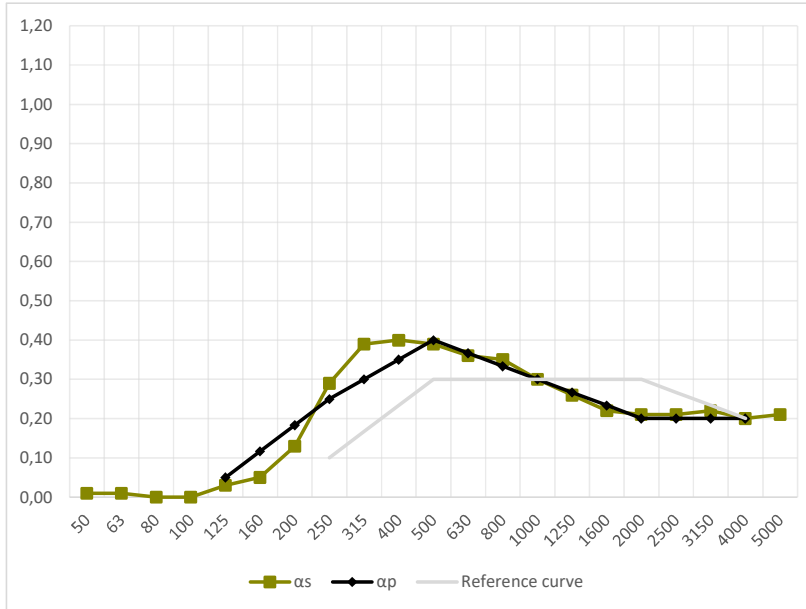
Curve thirds: yes

Curve octaves: yes

Reference curve: yes

Sound Absorption Coefficient α for each frequency f (Hz)

Frequency f (Hz)	Thirds α_s (-)	Octaves α_p (-)
50	0,01	
63	0,01	0,00
80	0,00	
100	0,00	
125	0,03	0,05
160	0,05	
200	0,13	
250	0,29	0,25
315	0,39	
400	0,40	
500	0,39	0,40
630	0,36	
800	0,35	
1000	0,30	0,30
1250	0,26	
1600	0,22	
2000	0,21	0,20
2500	0,21	
3150	0,22	
4000	0,20	0,20
5000	0,21	



Evaluation according to DIN EN ISO 11654:

α_w	0,30	()
Class	D	()

Single number rating according to ASTM C423-23:

NRC	0,30
SAA	0,29

Test date: 26.05.2026

Examiner: Nele Götzelmann; B.Sc.

Creation data sheet: Nele Götzelmann; B.Sc.

Laboratory: Laboratory for acoustics; Fuchs Raumingenieure; Tillystraße 2, 90431 Nuremberg; Germany