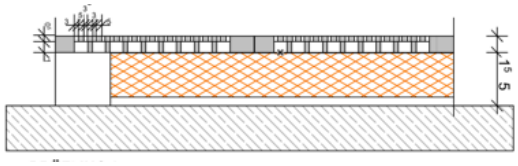
Sound absorption coefficient according to ISO 354:2003

Measurement of sound absorption coefficient in a reverberation room

Cliente: LOBIS BOEDEN Data del colla 09.10.2018

Descrizione: Paneele LOBISilent Dreischichtholz perforiert, freier Querschnitt/Lochflächenanteil 8,5%; Hohlraum 50mm; Hinterfuellung mit 40mm Polyesterfaserpanel, 20kg/m3, Akustikvlies direkt hinter Panel angebracht

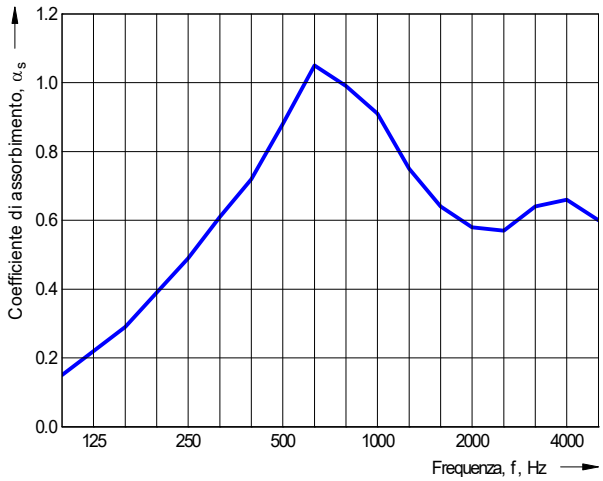
Oggetto: Paneel LOBISilent 50 - Hohlraum 50mm



ARCHACUSTICA

			Empty reverberation room:			Reverberation room with object:		
Superficie:	11.29	m²	Umidità relativa:	62.0	%	Umidità relativa:	61.0	%
Volume ambiente Riverberante:	199.0	m³	Temperatura:	18.4	°C	Temperatura:	18.2	°C
			Barometric pressure:	89.7	kPa	Barometric pressure:	89.7	kPa

Frequenza f [Hz]	α_s
100	0.15
125	0.22
160	0.29
200	0.39
250	0.49
315	0.61
400	0.72
500	0.88
630	1.05
800	0.99
1'000	0.91
1'250	0.75
1'600	0.64
2'000	0.58
2'500	0.57
3'150	0.64
4'000	0.66
5'000	0.60



Name des Prüfinstituts: Archacustica snc stp

No. di report:01

Data: 10.10.2018 Firma:

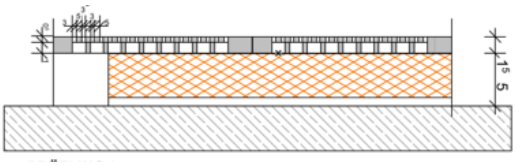
Coefficiente di assorbimento acustico secondo la ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Cliente: LOBIS BOEDEN Data del colla 09.10.2018

Descrizione: Paneele LOBISilent Dreischichtholz perforiert, freier Querschnitt/Lochflächenanteil 8,5%, Hohlraum 50mm; Hinterfuellung mit 40mm Polyesterfaserpanel, 20kg/m3, Akustikvlies direkt hinter Paneel angebracht

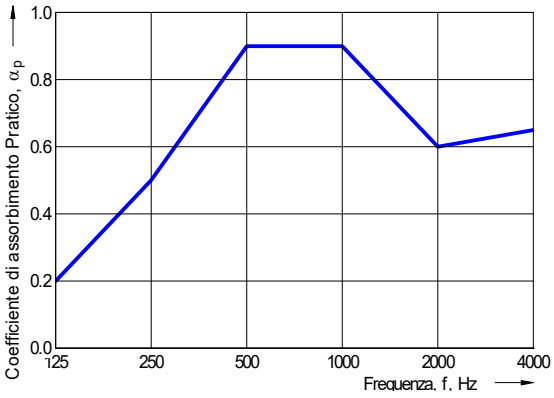
Oggetto: Paneel LOBISilent 50 - Hohlraum 50mm



ARCHACUSTICA

Superficie:	11.29	m²	Empty reverberation room:			Reverberation room with object:		
Volume ambiente Riverberante:	199.0	m³	Umidità relativa:	62.0	%	Umidità relativa:	61.0	%
			Temperatura:	18.4	°C	Temperatura:	18.2	°C
			Barometric pressure:	89.7	kPa	Barometric pressure:	89.7	kPa

Frequenza f [Hz]	α_p
125	0.20
250	0.50
500	0.90
1'000	0.90
2'000	0.60
4'000	0.65



coefficiente di assorbimento sonoro ponderato in base alla ISO 11654

$\alpha_w = 0.70$

Name des Prüfinstituts: Archacustica snc stp

No. di report:01a

Data: 11.10.2018 Firma:

Sound absorption coefficient according to ISO 354:2003

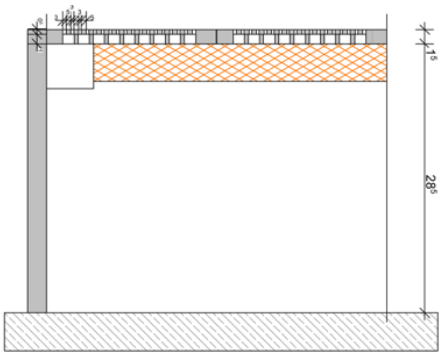
Measurement of sound absorption coefficient in a reverberation room

Cliente: LOBIS BOEDEN

Data del collaudo: 09.10.2018

Descrizione: Paneele LOBISilent Dreischichtholz perforiert, freier Querschnitt/Lochflächenanteil 8,5%; Hohlraum 285mm; Hinterfuellung mit 40mm Polyesterfaserpaneel, 20kg/m3, Vlies direkt hinter Paneel angebracht

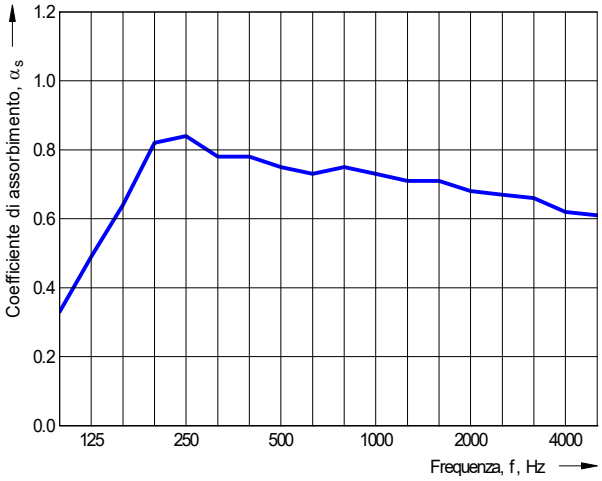
Oggetto: Paneel LOBISilent 300 - Hohlraum 300mm



ARCHACUSTICA

			Empty reverberation room:			Reverberation room with object:		
Superficie:	11.29	m²	Umidità relativa:	62.0	%	Umidità relativa:	62.0	%
Volume ambiente Riverberante:	199.0	m³	Temperatura:	18.4	°C	Temperatura:	18.0	°C
			Barometric pressure:	89.7	kPa	Barometric pressure:	89.7	kPa

Frequenza f [Hz]	α_s
100	0.33
125	0.49
160	0.64
200	0.82
250	0.84
315	0.78
400	0.78
500	0.75
630	0.73
800	0.75
1'000	0.73
1'250	0.71
1'600	0.71
2'000	0.68
2'500	0.67
3'150	0.66
4'000	0.62
5'000	0.61



Name des Prüfinstituts: Archacustica snc stp

No. di report:02

Data: 10.10.2018 Firma:

Coefficiente di assorbimento acustico secondo la ISO 11654

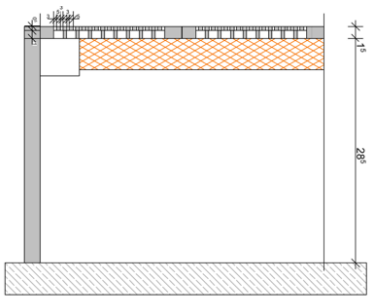
Measurement of sound absorption coefficient in a reverberation room

Cliente: LOBIS BOEDEN

Data del colla 09.10.2018

Descrizione: Paneele LOBISilent Dreischichtholz perforiert, freier Querschnitt / Lochflächenanteil 8,5%; Hohlraum 285mm; Hinterfüllung mit 40mm Polyesterfaserpaneel, 20kg/m3; Akustikvlies direkt hinter Paneel angebracht

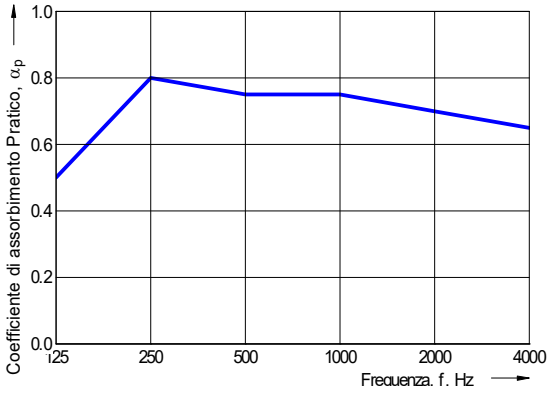
Oggetto: Paneel LOBISilent 300 - Hohlraum 300mm



ARCHACUSTICA

			Empty reverberation room:			Reverberation room with object:		
Superficie:	11.29	m²	Umidità relativa:	62.0	%	Umidità relativa:	62.0	%
Volume ambiente Riverberante:	199.0	m³	Temperatura:	18.4	°C	Temperatura:	18.0	°C
			Barometric pressure:	89.7	kPa	Barometric pressure:	89.7	kPa

Frequenza f [Hz]	α_p
125	0.50
250	0.80
500	0.75
1'000	0.75
2'000	0.70
4'000	0.65



coefficiente di assorbimento sonoro ponderato in base alla ISO 11654

$\alpha_w = 0.75$ (L)

Name des Prüfinstituts: Archacustica snc stp

No. di report:02a

Data: 11.10.2018 Firma:

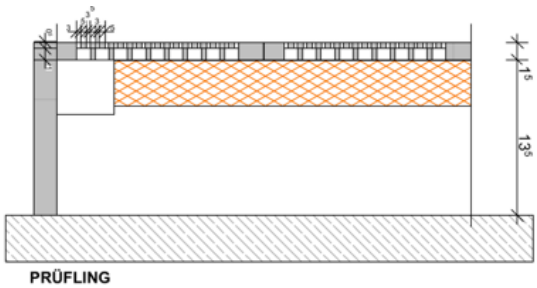
Sound absorption coefficient according to ISO 354:2003

Measurement of sound absorption coefficient in a reverberation room

Cliente: LOBIS BOEDEN Data del collaudo: 09.10.2018

Descrizione: Paneele LOBISilent Dreischichtholz perforiert; freier Querschnitt / Lochflächenanteil 8,5%; Hohlraum 150mm; Hinterfüllung mit 40mm Polyesterfaserpanel, 20kg/m3; Akustikvlies direkt hinter Paneel angebracht

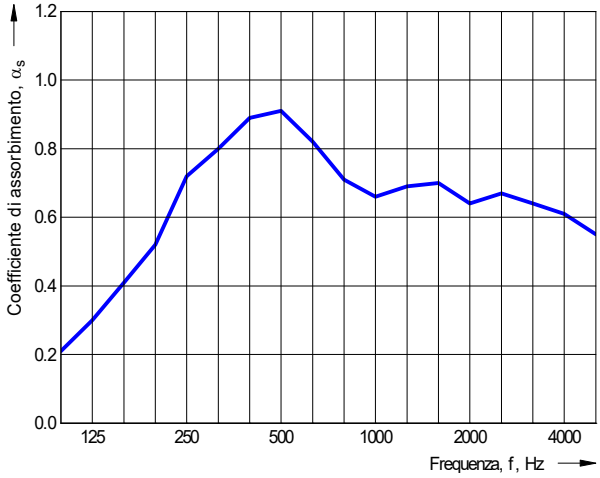
Oggetto: Paneel LOBISilent 150, Hohlraum 150mm



ARCHACUSTICA

			Empty reverberation room:			Reverberation room with object:		
Superficie:	11.29	m²	Umidità relativa:	62.0	%	Umidità relativa:	61.0	%
Volume ambiente Riverberante:	199.0	m³	Temperatura:	18.4	°C	Temperatura:	18.2	°C
			Barometric pressure:	89.7	kPa	Barometric pressure:	89.7	kPa

Frequenza f [Hz]	α_s
100	0.21
125	0.30
160	0.41
200	0.52
250	0.72
315	0.80
400	0.89
500	0.91
630	0.82
800	0.71
1'000	0.66
1'250	0.69
1'600	0.70
2'000	0.64
2'500	0.67
3'150	0.64
4'000	0.61
5'000	0.55



Name des Prüfinstituts: Archacustica snc stp

No. di report:03

Data: 10.10.2018 Firma:

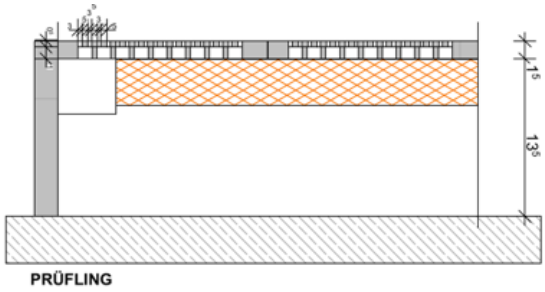
Coefficiente di assorbimento acustico secondo la ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Cliente: LOBIS BOEDEN Data del colla 09.10.2018

Descrizione: Paneele LOBISilent Dreischichtholz perforiert, freier Querschnitt / Lochflächenanteil 8,5%; Hohlraum 150mm; Hinterfuellung mit 40mm Polyesterfaserpanel, 20kg/m3; Akustikvlies direkt hinter Paneel angebracht

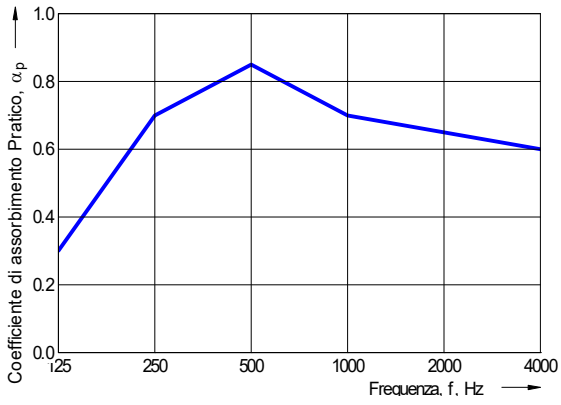
Oggetto: Paneel LOBISilent 150 - Hohlraum 150mm



ARCHACUSTICA

			Empty reverberation room:			Reverberation room with object:		
Superficie:	11.29	m²	Umidità relativa:	62.0	%	Umidità relativa:	61.0	%
Volume ambiente Riverberante:	199.0	m³	Temperatura:	18.4	°C	Temperatura:	18.2	°C
			Barometric pressure:	89.7	kPa	Barometric pressure:	89.8	kPa

Frequenza f [Hz]	α_p
125	0.30
250	0.70
500	0.85
1'000	0.70
2'000	0.65
4'000	0.60



coefficiente di assorbimento sonoro ponderato in base alla ISO 11654

$\alpha_w = 0.70$

Name des Prüfinstituts: Archacustica snc stp

No. di report:03a

Data: 11.10.2018 Firma: