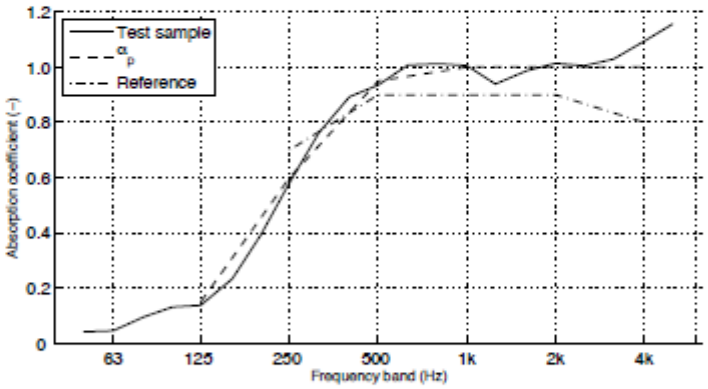
SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Object: SOUNDFELT REC WHITE
t = 50 mm, ρ = 52 kg/m³

Type A mounting

Frequency (Hz)	α_s (-)	α_p (-)
50	0.04	
63	0.05	0.05
80	0.10	
100	0.13	
125	0.14	0.15
160	0.23	
200	0.39	
250	0.58	0.60
315	0.76	
400	0.89	
500	0.94	0.95
630	1.01	
800	1.01	
1000	0.94	1.00
1250	0.99	
1600	1.01	
2000	1.00	1.00
2500	1.03	
3150	0.99	
4000	1.03	1.00
5000	1.16	



α_w = 0.90 (Absorption class A)

Date of test:	2012-01-26	Object surface: 10.0 m²	Relative humidity: 84 %
Date:	2011-02-03	Reverberation room volume: 200 m³	Temperature: 1 °C

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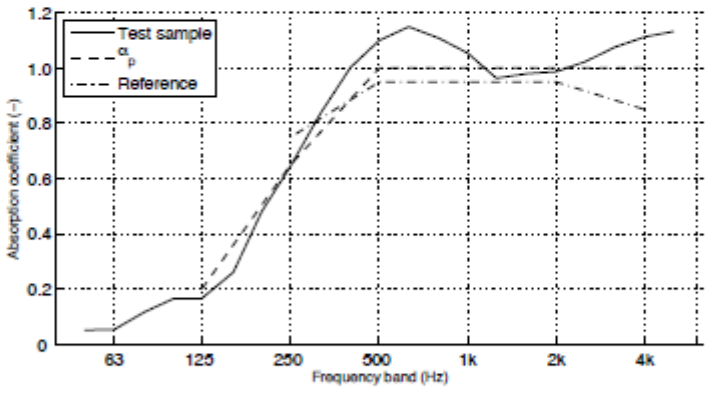
Measurement of sound absorption coefficient in a reverberation room

Object: SOUNDFELT REC WHITE
t = 50 mm, ρ = 52 kg/m³

Type E-100 mounting

Frequency (Hz)	α_s (-)	α_p (-)
50	0.05	
63	0.05	0.05
80	0.12	
100	0.17	
125	0.17	0.20
160	0.26	
200	0.48	
250	0.65	0.65
315	0.83	
400	1.00	
500	1.10	1.00
630	1.15	
800	1.11	
1000	1.05	1.00
1250	0.96	
1600	0.98	
2000	0.99	1.00
2500	1.02	
3150	1.08	
4000	1.11	1.00
5000	1.13	



α_w = 0.95 (Absorption class A)

Date of test:	2012-01-26	Object surface: 10.0 m²	Relative humidity: 84 %
Date:	2011-02-03	Reverberation room volume: 200 m³	Temperature: 1 °C

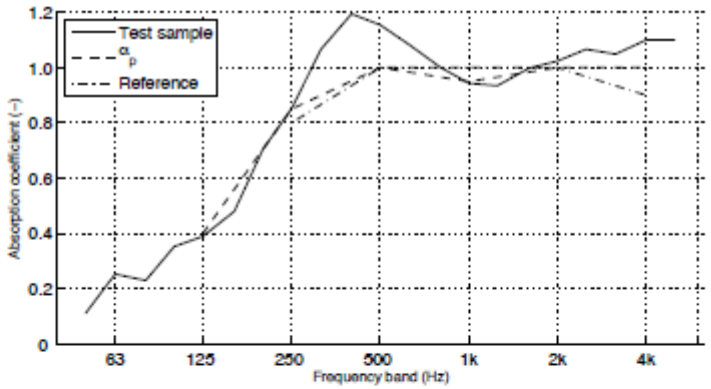
SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Object: SOUNDFELT REC WHITE
t = 50 mm, ρ = 52 kg/m³

Type E-200 mounting

Frequency (Hz)	α_s (-)	α_p (-)
50	0.11	
63	0.25	0.20
80	0.23	
100	0.35	
125	0.39	0.40
160	0.48	
200	0.70	
250	0.85	0.85
315	1.07	
400	1.19	
500	1.15	1.00
630	1.08	
800	1.00	
1000	0.94	0.95
1250	0.93	
1600	1.00	
2000	1.02	1.00
2500	1.07	
3150	1.05	
4000	1.10	1.00
5000	1.10	



α_w = 1.00 (Absorption class A)

Date of test:	2012-01-26	Object surface: 10.0 m²	Relative humidity: 84 %
Date:	2011-02-03	Reverberation room volume: 200 m³	Temperature: 1 °C

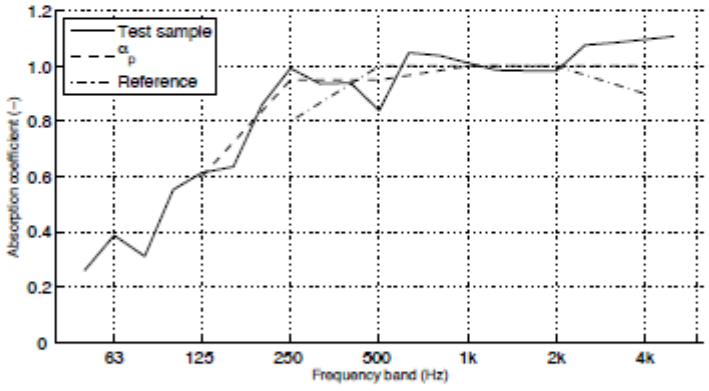
SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Object: SOUNDFELT REC WHITE
t = 50 mm, ρ = 52 kg/m³

Type E-400 mounting

Frequency (Hz)	α_s (-)	α_p (-)
50	0.26	
63	0.39	0.30
80	0.31	
100	0.55	
125	0.61	0.60
160	0.64	
200	0.86	
250	0.99	0.95
315	0.94	
400	0.94	
500	0.84	0.95
630	1.05	
800	1.04	
1000	1.01	1.00
1250	0.99	
1600	0.98	
2000	0.98	1.00
2500	1.08	
3150	1.08	
4000	1.10	1.00
5000	1.11	



α_w = 1.00 (Absorption class A)

Date of test:	2012-01-26	Object surface: 10.0 m²	Relative humidity: 84 %
Date:	2011-02-03	Reverberation room volume: 200 m³	Temperature: 1 °C

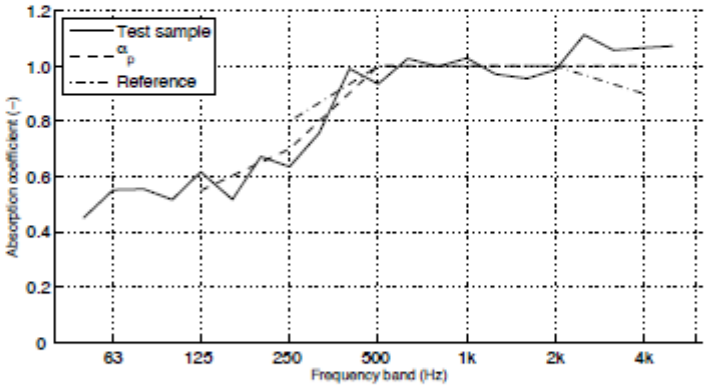
SOUND ABSORPTION COEFFICIENT ACCORDING TO ISO 354 AND ISO 11654

Measurement of sound absorption coefficient in a reverberation room

Object: SOUNDFELT REC WHITE
t = 50 mm, ρ = 52 kg/m³

Type E-700 mounting

Frequency (Hz)	α_s (-)	α_p (-)
50	0.45	
63	0.55	0.50
80	0.56	
100	0.52	
125	0.62	0.55
160	0.52	
200	0.67	
250	0.64	0.70
315	0.76	
400	0.99	
500	0.94	1.00
630	1.03	
800	1.00	
1000	1.03	1.00
1250	0.97	
1600	0.96	
2000	0.99	1.00
2500	1.11	
3150	1.06	
4000	1.07	1.00
5000	1.07	



α_w = 1.00 (Absorption class A)

Date of test:	2012-01-26	Object surface: 10.0 m²	Relative humidity: 84 %
Date:	2011-02-03	Reverberation room volume: 200 m³	Temperature: 1 °C