

Measurement of sound absorption in a reverberation room

According to the standards EN ISO 354:2003 and EN ISO 11654:1997

Client: **Ovacon AB**
Vånevik, Stora Viskär 572 93 OSKARSHAMN, Sweden
Eddie Ericsson

Sample:	Manufacturer:	Ovacon AB
	Product:	Sprefix S / Spraytec
	Structure:	25 mm sprayed mineral wool 13 mm gypsum board (as a mechanical backing), mounting type B concrete
	Overall thickness:	38 mm

Date of measurement: **12.1.2006**

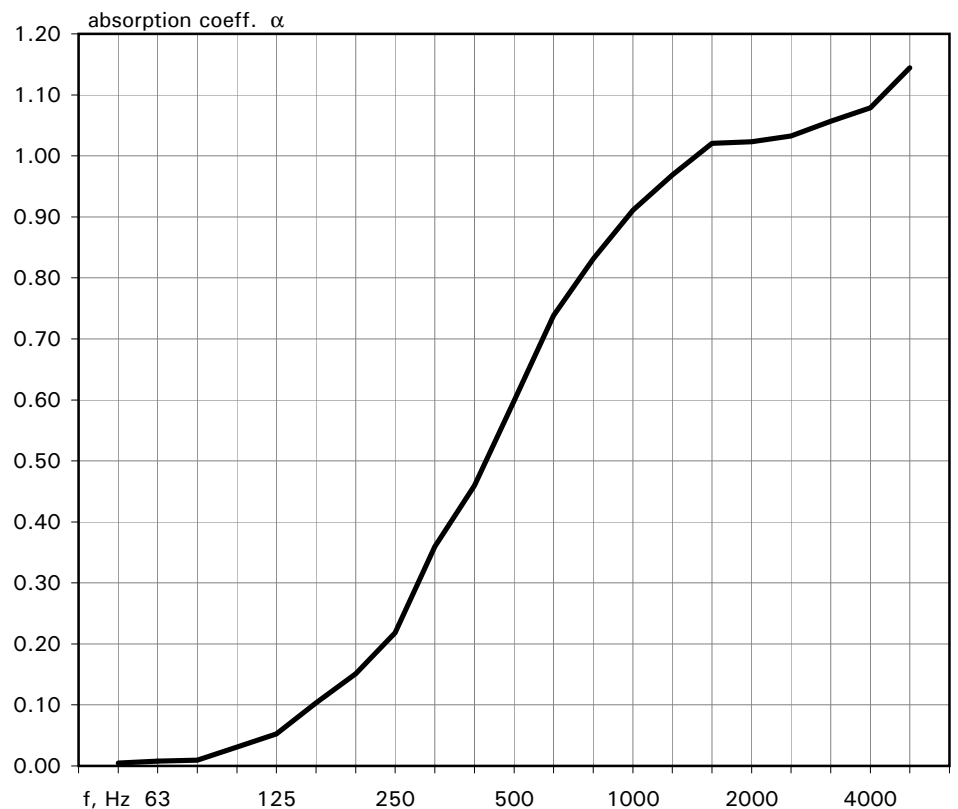
Place of measurement: **Finnish Broadcasting Company acoustics laboratory, reverberation room 5**

Sample: Surface area: **12.48 m²**

Conditions: Temperature: **19 °C**
 Humidity: **44 %**

Measurement results: **Absorption class D according to the standard EN ISO 11654.**
Weighted absorption coefficient α_w according to EN ISO 11654: **0.55 (MH)**

f Hz	α_s 1/3 octaves	α_s octaves
50	0.00	
63	0.01	0.01
80	0.01	
100	0.03	
125	0.05	0.06
160	0.10	
200	0.15	
250	0.22	0.24
315	0.36	
400	0.46	
500	0.60	0.60
630	0.74	
800	0.83	
1000	0.91	0.90
1250	0.97	
1600	1.02	
2000	1.02	1.03
2500	1.03	
3150	1.06	
4000	1.08	1.09
5000	1.14	



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Sample:	Manufacturer:	Ovacon AB
	Product:	Sprexif S / Spraytec
	Structure:	40 mm sprayed mineral wool 13 mm gypsum board (as a mechanical backing), mounting type B concrete
	Overall thickness:	53 mm

Date of measurement: **12.1.2006**

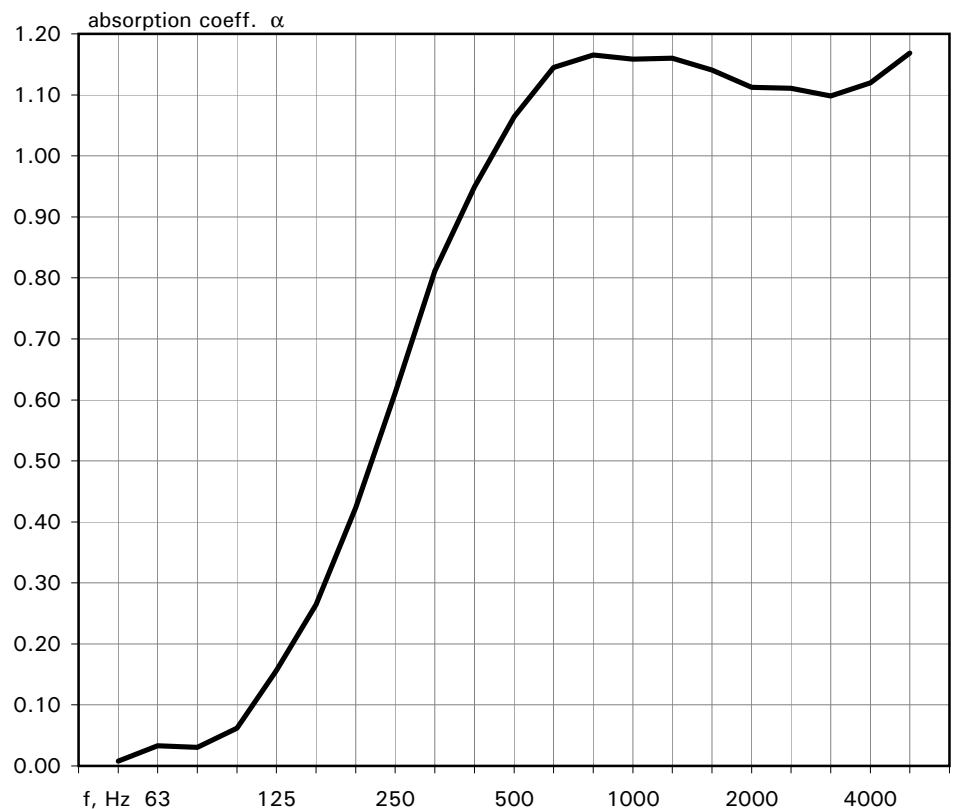
Place of measurement: **Finnish Broadcasting Company acoustics laboratory, reverberation room 5**

Sample: Surface area: **12.48** m²

Conditions: Temperature: **19** °C
 Humidity: **47** %

Measurement results: **Absorption class A according to the standard EN ISO 11654.**
Weighted absorption coefficient α_w according to EN ISO 11654: **0.90 ()**

f Hz	α_s 1/3 octaves	α_s octaves
50	0.01	
63	0.03	0.02
80	0.03	
100	0.06	
125	0.16	0.16
160	0.26	
200	0.42	
250	0.61	0.62
315	0.81	
400	0.95	
500	1.06	1.05
630	1.15	
800	1.17	
1000	1.16	1.16
1250	1.16	
1600	1.14	
2000	1.11	1.12
2500	1.11	
3150	1.10	
4000	1.12	1.13
5000	1.17	



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Sample:	Manufacturer:	Ovacon AB
	Product:	Sprexif S / Spraytec
	Structure:	50 mm sprayed mineral wool 13 mm gypsum board (as a mechanical backing), mounting type B concrete
	Overall thickness:	63 mm

Date of measurement: **12.1.2006**

Place of measurement: **Finnish Broadcasting Company acoustics laboratory, reverberation room 5**

Sample: Surface area: **12.48 m²**

Conditions: Temperature: **19 °C**
 Humidity: **51 %**

Measurement results: **Absorption class A according to the standard EN ISO 11654.**
Weighted absorption coefficient α_w according to EN ISO 11654: **1.00 ()**

f Hz	α_s 1/3 octaves	α_s octaves
50	0.02	0.04
63	0.04	
80	0.05	
100	0.13	0.30
125	0.27	
160	0.50	
200	0.68	0.85
250	0.80	
315	1.07	
400	1.15	1.17
500	1.18	
630	1.18	
800	1.14	1.12
1000	1.11	
1250	1.11	
1600	1.08	1.08
2000	1.08	
2500	1.07	
3150	1.09	1.08
4000	1.08	
5000	1.07	

