TECHNICAL SPECIFICATION : SOUND ABSORPTION COEFFICIENT

13 mm gypsum board + Alpha plaster Mounted on rigid backing

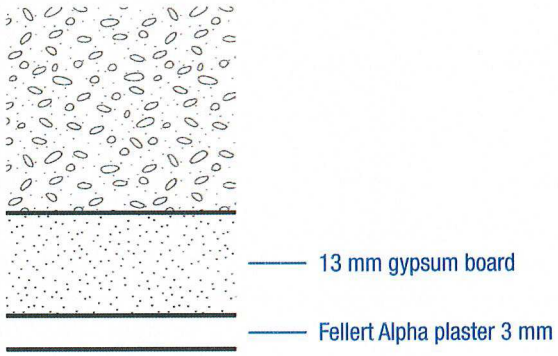
Measurement of sound absorption coefficient in a reverberation room, performed according to ISO 354.

Measurement object
Fellert Alpha plaster coating in two layers (e g Base and Top, total thickness 3 mm) on 13 mm gypsum board mounted on rigid backing.

Absorption class
Class D according to ISO 11654.

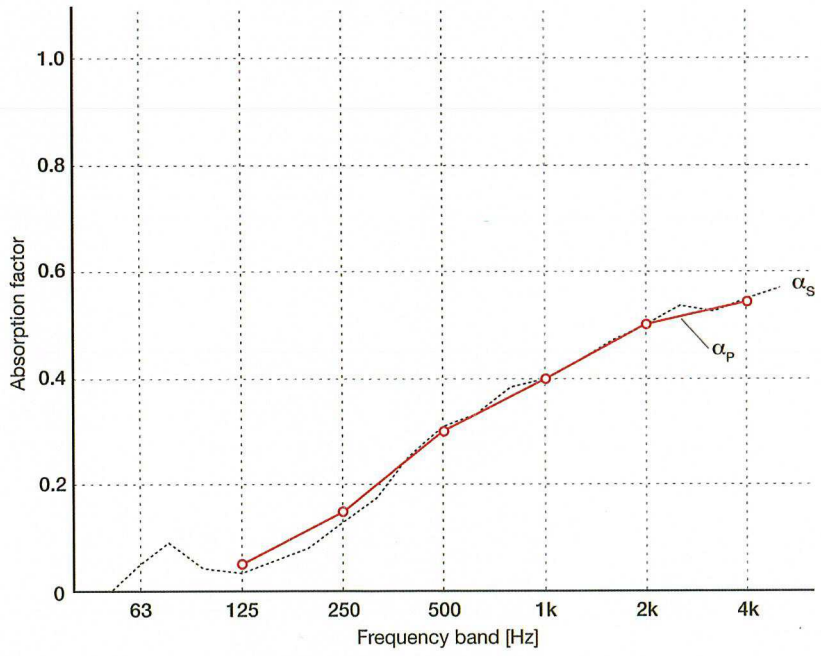
Features
Several different surface structures are possible with Fellert plasters without affecting the absorption characteristics.

Original measurement record and date
D2684, sheet 1+10 (Tunemalm Akustik AB) 2002-11-12



Frequency [Hz]	Sample α_p
63	0.00
125	0.05
250	0.15
500	0.30
1000	0.40
2000	0.50
4000	0.55

α_w = 0.35 H (Class D)



TECHNICAL SPECIFICATION : SOUND ABSORPTION COEFFICIENT

Fellert Board 39 mm + Alpha Base + Alpha Top Mounted on rigid backing

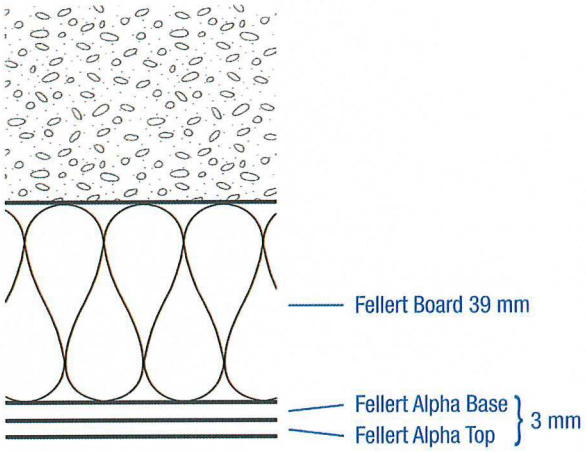
Measurement of sound absorption coefficient in a reverberation room, performed according to ISO 354 and ISO 11654.

Measurement object
Fellert Alpha Base + Fellert Alpha Top coating (total thickness 3 mm) on Fellert Board 39 mm mounted on rigid backing.

Absorption class
Class C according to ISO 11654.

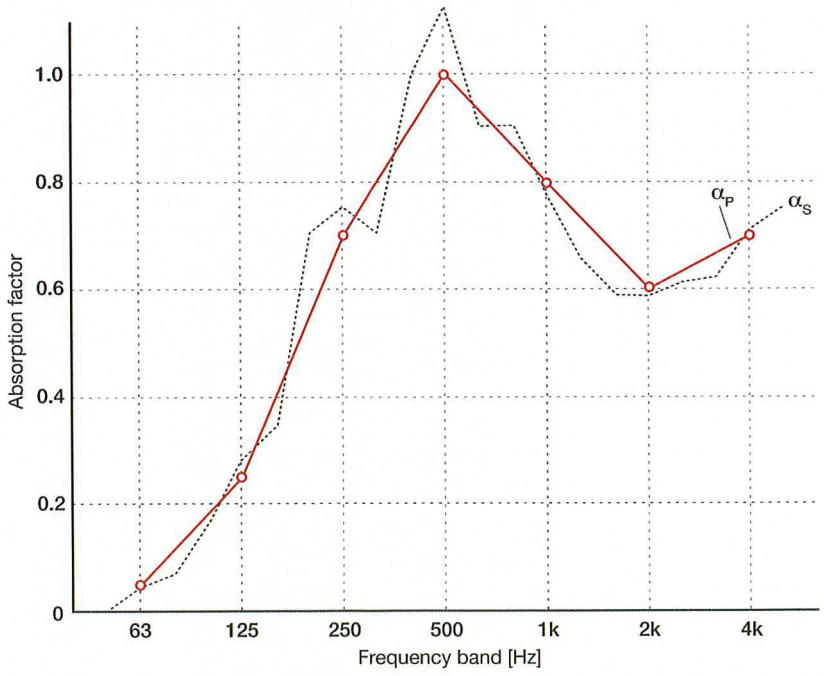
Features
Several different surface structures are possible with Fellert plasters without affecting the absorption characteristics.

Original measurement record and date
07-67-3 (Akustikverkstan AB) 2007-10-29



Frequency [Hz]	Sample α_p
63	0.05
125	0.25
250	0.70
500	1.00
1000	0.80
2000	0.60
4000	0.70

$\alpha_w = 0.70$ M (Class C)



TECHNICAL SPECIFICATION : SOUND ABSORPTION COEFFICIENT

Fellert Board 39 mm + Alpha Base + Alpha Top
Total construction height 200 mm

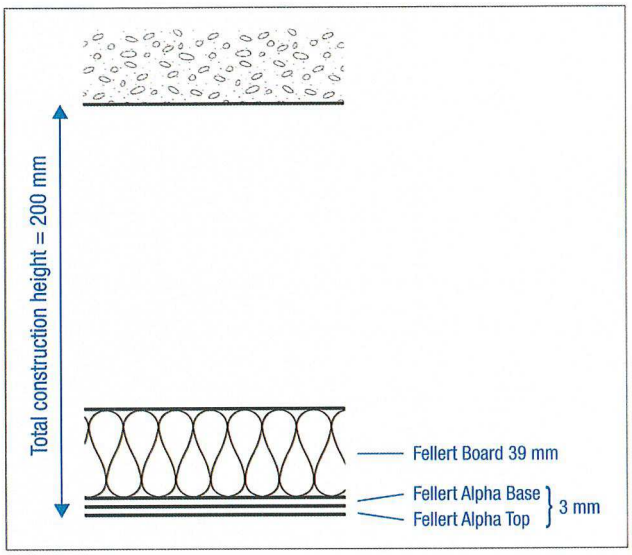
Measurement of sound absorption coefficient in a reverberation room, performed according to ISO 354 and ISO 11654.

Measurement object
Fellert Alpha Base + Fellert Alpha Top coating (total thickness 3 mm) on Fellert Board 39 mm. Total construction height 200 mm.

Absorption class
Class C according to ISO 11654.

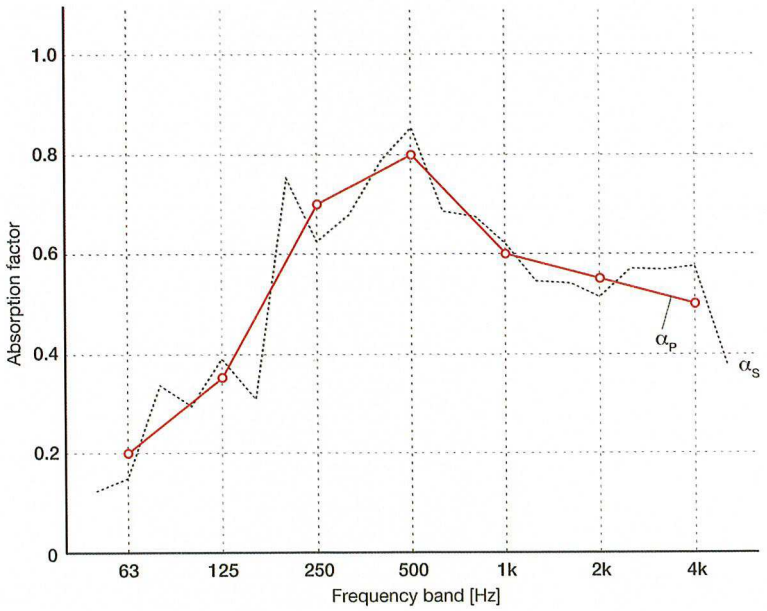
Features
Several different surface structures are possible with Fellert plasters without affecting the absorption characteristics.

Original measurement record and date
07-67-8 (Akustikverkstan AB) 2007-10-29



Frequency [Hz]	Sample α_p
63	0.20
125	0.35
250	0.70
500	0.80
1000	0.60
2000	0.55
4000	0.50

$\alpha_w = 0.60$ L (Class C)



TECHNICAL SPECIFICATION : SOUND ABSORPTION COEFFICIENT

OWA 15 mm + Fellert Board 39 mm + Alpha Base + Alpha Top Total construction height 200 mm

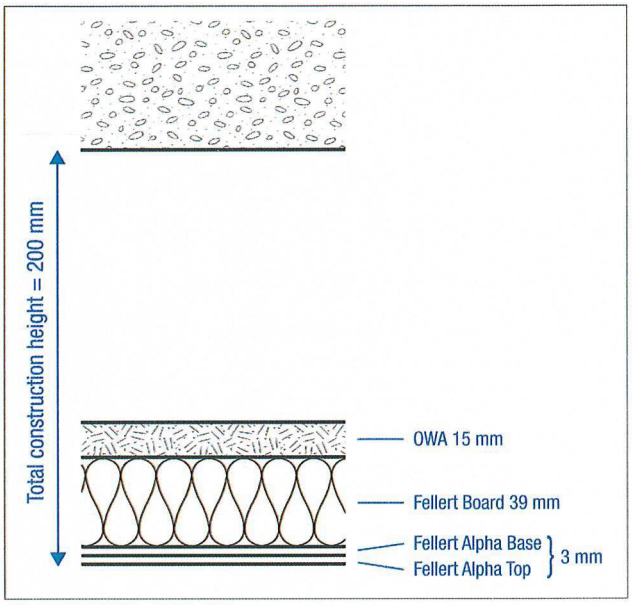
Measurement of sound absorption coefficient in a reverberation room, performed according to ISO 354 and ISO 11654.

Measurement object
Fellert Alpha Base + Fellert Alpha Top coating (total thickness 3 mm) on Fellert Board 39 mm and OWA 15 mm perforated mineral wool board.Total construction height 200 mm (mounting E-200).

Absorption class
Class A according to ISO 11654.

Features
Several different surface structures are possible with Fellert plasters without affecting the absorption characteristics.

Original measurement record and date
07-05-R6 (Akustikverkstan AB) 2008-04-29



Frequency [Hz]	Sample α_p
63	0.20
125	0.35
250	0.80
500	1.00
1000	1.00
2000	0.85
4000	0.85

$\alpha_w = 0.95$ (Class A)