Measurement of sound absorption in an impedance tube

According to the standard SFS-EN ISO 10534-2

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

Sample:	Manufacturer:	Ovacon AB
	Product:	**Spraytec A**
	Structure:	**< 1 mm sprayed surface**
		28 mm sprayed glass wool
	Overall thickness:	~30 mm

Date of measurement: 31.1.2006

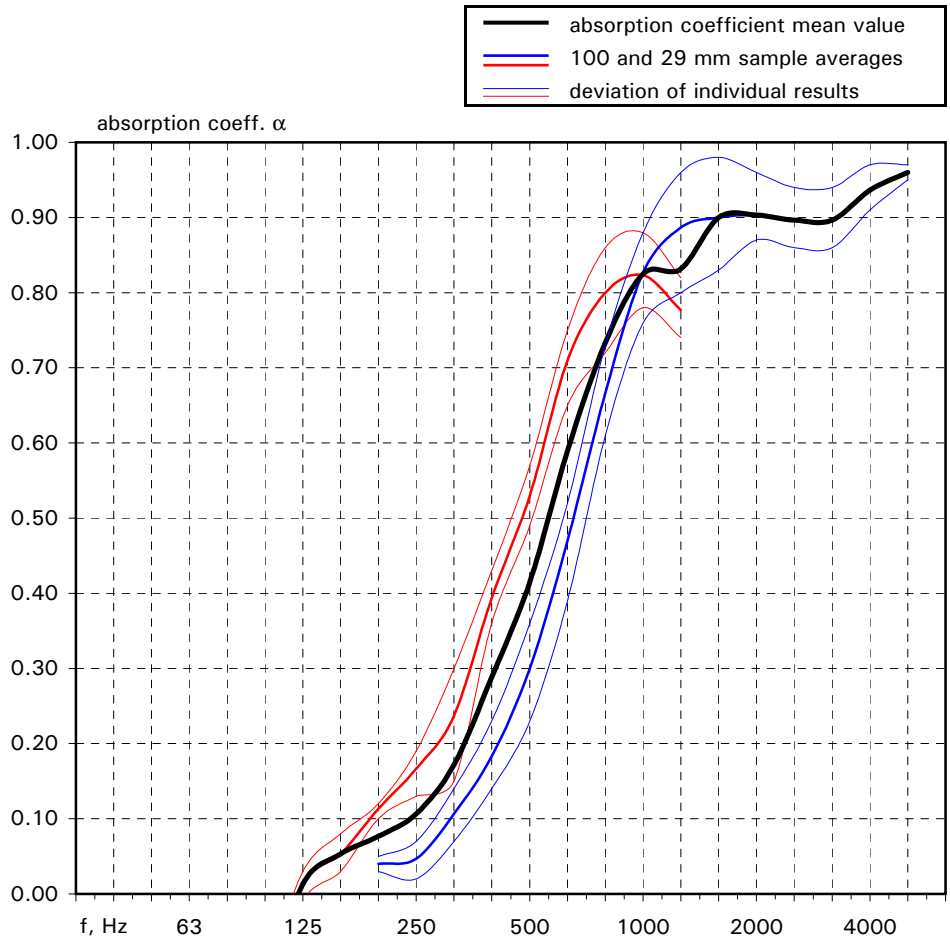
Measurement system: Impedance tube, Brüel & Kjær Type 4206
Details on the measurement system are available in a separate report.

Number of samples: 3 x ∅ 100 mm
3 x ∅ 29 mm

Conditions: Temperature: 21 °C
Humidity: 101,1 kPa

Measurement results:

f Hz	α
50	**0.00**
63	**0.00**
80	**0.00**
100	**0.00**
125	**0.01**
160	**0.05**
200	**0.08**
250	**0.11**
315	**0.17**
400	**0.29**
500	**0.42**
630	**0.59**
800	**0.73**
1000	**0.83**
1250	**0.83**
1600	**0.90**
2000	**0.90**
2500	**0.90**
3150	**0.90**
4000	**0.94**
5000	**0.96**



Measurement of sound absorption in an impedance tube

According to the standard SFS-EN ISO 10534-2

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

Sample:	Manufacturer:	Ovacon AB
	Product:	**Spraytec A**
	Structure:	**< 1 mm sprayed surface**
		40 mm sprayed glass wool
	Overall thickness:	~40-45 mm

Date of measurement: 31.1.2006

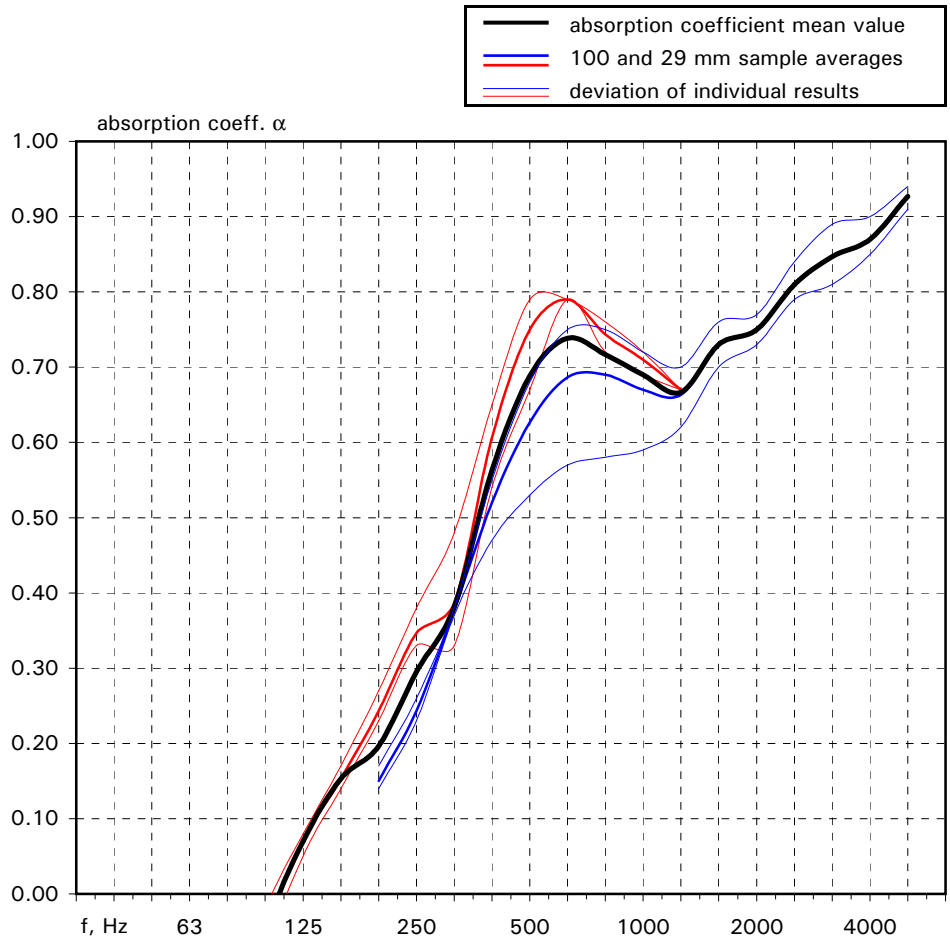
Measurement system: Impedance tube, Brüel & Kjær Type 4206
Details on the measurement system are available in a separate report.

Number of samples: 3 x ∅ 100 mm
3 x ∅ 29 mm

Conditions: Temperature: 21 °C
Humidity: 101,1 kPa

Measurement results:

f Hz	α
50	**0.00**
63	**0.00**
80	**0.00**
100	**0.00**
125	**0.07**
160	**0.15**
200	**0.20**
250	**0.30**
315	**0.38**
400	**0.56**
500	**0.69**
630	**0.74**
800	**0.72**
1000	**0.69**
1250	**0.67**
1600	**0.73**
2000	**0.75**
2500	**0.81**
3150	**0.85**
4000	**0.87**
5000	**0.93**



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

Sample:
Manufacturer: Ovacon AB
Product: **Sprefix S / Spraytec**
Structure: **30 mm sprayed stone wool**
Overall thickness: ~30 mm

Date of measurement: 31.1.2006

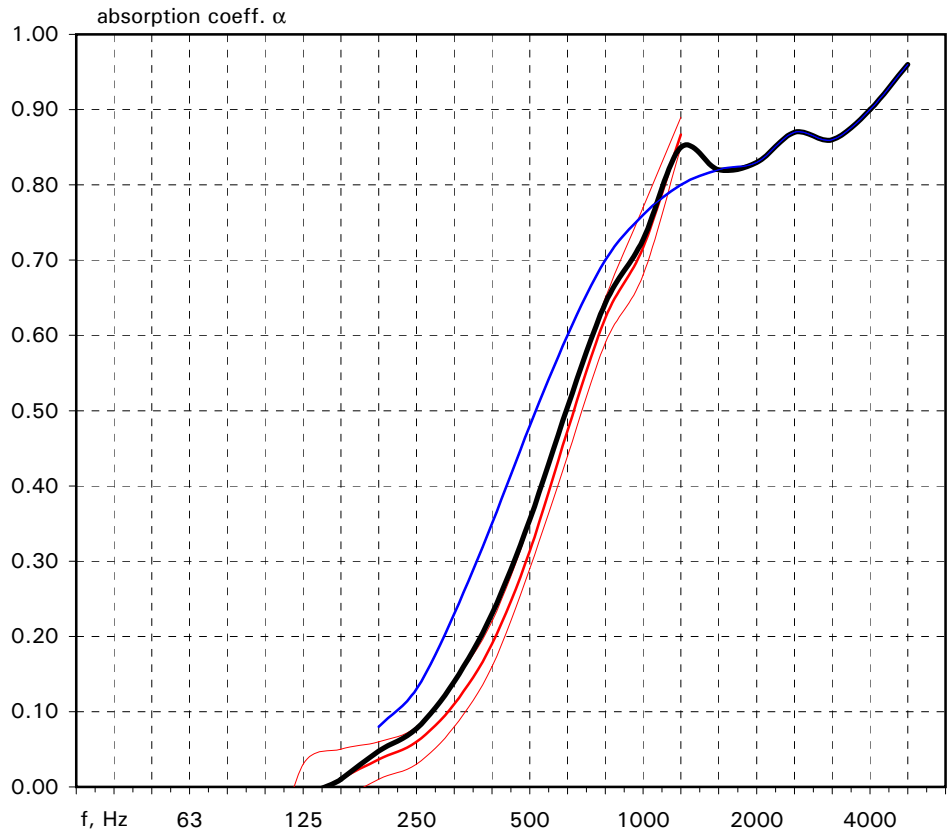
Measurement system: Impedance tube, Brüel & Kjær Type 4206
Details on the measurement system are available in a separate report.

Number of samples: 3 x ∅ 100 mm
1 x ∅ 29 mm

Conditions: Temperature: 21 °C
Humidity: 101,1 kPa

Measurement results:

f Hz	α
50	**0.00**
63	**0.00**
80	**0.00**
100	**0.00**
125	**0.00**
160	**0.01**
200	**0.05**
250	**0.08**
315	**0.14**
400	**0.23**
500	**0.36**
630	**0.51**
800	**0.64**
1000	**0.73**
1250	**0.85**
1600	**0.82**
2000	**0.83**
2500	**0.87**
3150	**0.86**
4000	**0.90**
5000	**0.96**



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

Sample:
Manufacturer: Ovacon AB
Product: **Sprefix S / Spraytec**
Structure: **40 mm sprayed stone wool**

Overall thickness: ~40 mm

Date of measurement: 31.1.2006

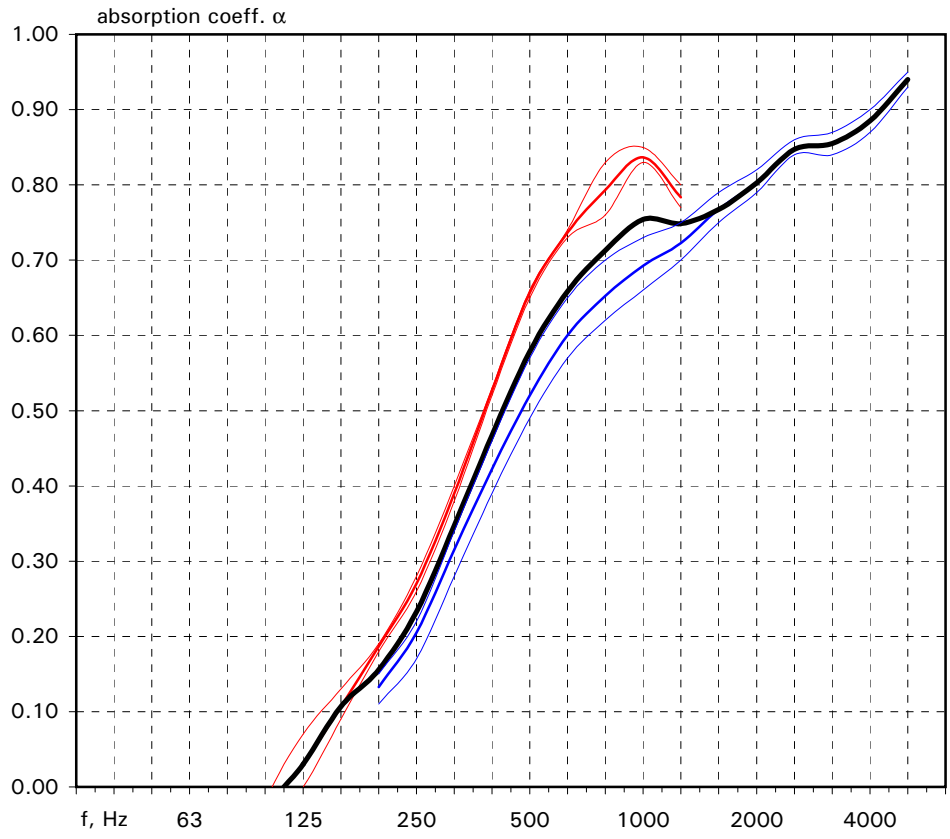
Measurement system: Impedance tube, Brüel & Kjær Type 4206
Details on the measurement system are available in a separate report.

Number of samples: 3 x ∅ 100 mm
4 x ∅ 29 mm

Conditions: Temperature: 21 °C
Humidity: 101,1 kPa

Measurement results:

f Hz	α
50	**0.00**
63	**0.00**
80	**0.00**
100	**0.00**
125	**0.03**
160	**0.11**
200	**0.16**
250	**0.23**
315	**0.35**
400	**0.47**
500	**0.58**
630	**0.66**
800	**0.71**
1000	**0.75**
1250	**0.75**
1600	**0.77**
2000	**0.80**
2500	**0.85**
3150	**0.86**
4000	**0.89**
5000	**0.94**



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Client: Ovacon AB
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Eddie Ericsson

Sample:
Manufacturer: Ovacon AB
Product: **Sprefix S / Spraytec**
Structure: **60 mm sprayed stone wool**

Overall thickness: ~60 mm

Date of measurement: 31.1.2006

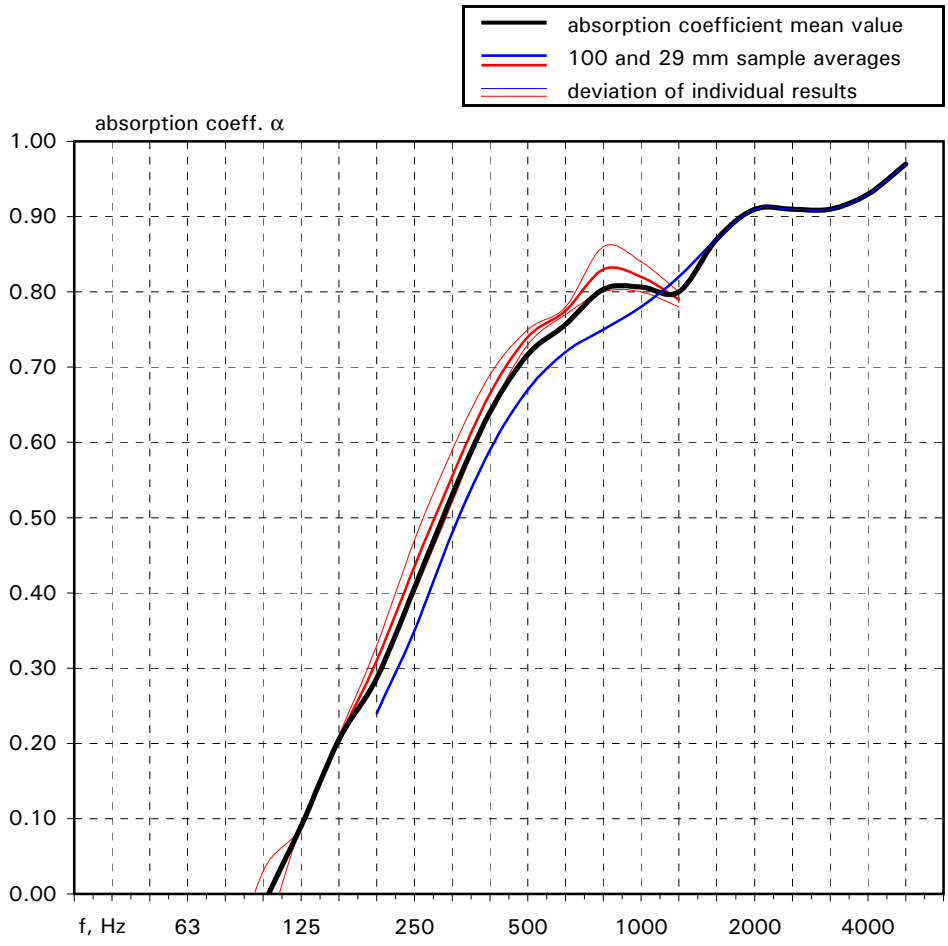
Measurement system: Impedance tube, Brüel & Kjær Type 4206
Details on the measurement system are available in a separate report.

Number of samples: 3 x ∅ 100 mm
4 x ∅ 29 mm

Conditions: Temperature: 21 °C
Humidity: 101,1 kPa

Measurement results:

f Hz	α
50	**0.00**
63	**0.00**
80	**0.00**
100	**0.00**
125	**0.09**
160	**0.21**
200	**0.29**
250	**0.41**
315	**0.53**
400	**0.64**
500	**0.72**
630	**0.76**
800	**0.80**
1000	**0.81**
1250	**0.80**
1600	**0.87**
2000	**0.91**
2500	**0.91**
3150	**0.91**
4000	**0.93**
5000	**0.97**



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