

## Sound Absorption Coefficient ISO 354

### Measurement of absorption in reverberation rooms

**Client** kinnasand / kvadrat  
**Test Specimen** Curtains Flat

#### Mounting type G-100

One layer of textile  
 Textile: Warm Up from kinnasand / kvadrat

#### Test Build-Up (from top to bottom):

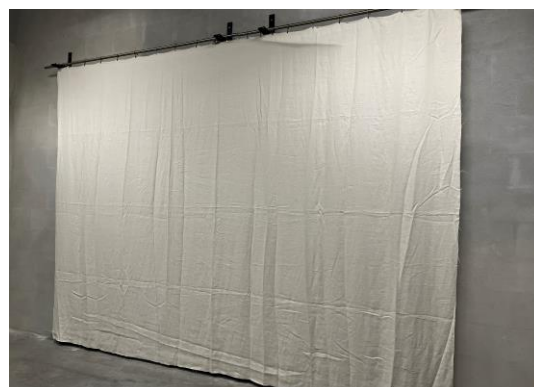
1.09 mm Front textile  
 100 mm Air gap  
 Reflective wall

#### Mounting

100mm distance to the wall

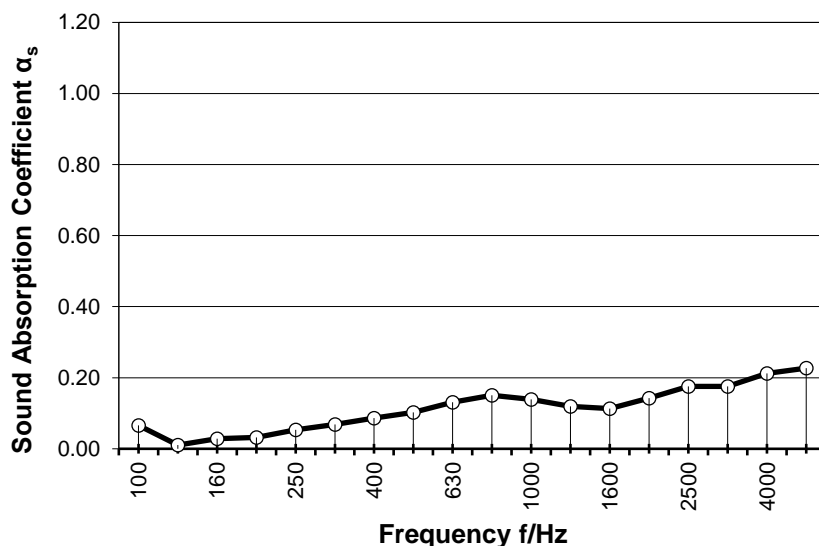
Flat curtains 1 element 4000x3010mm  
 Total dimensions of the test object  
 L x H = 4000mm x 3010mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.04 m<sup>2</sup>  
 Date of test 19/01/2024



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.07	
125	0.01	0.05
160	0.03	
200	0.03	
250	0.05	0.05
315	0.07	
400	0.09	
500	0.10	0.10
630	0.13	
800	0.15	
1000	0.14	0.15
1260	0.12	
1600	0.11	
2000	0.14	0.15
2500	0.18	
3160	0.18	
4000	0.21	0.20
5000	0.23	

#### Sound Absorption Coefficient $\alpha$



$\alpha_s$  Sound absorption coefficient to ISO 354

$\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.10</b>
<b>SAA:</b>	<b>0.11</b>

Rating according to ISO 11654:

### Weighted Sound Absorption Coefficient $\alpha_w = 0.15$

Sound absorption class: E

## Sound Absorption Coefficient ISO 354

### Measurement of absorption in reverberation rooms

**Client** Kinnasand / kvadrat  
**Test Specimen** Curtains Folded 100%

**Mounting type G-100**

One layer of textile

Textile: Warm Up from Kinnasand

**Test Build-Up (from top to bottom):**

1.09 mm Front textile  
 150 mm Air gap  
 Reflective wall

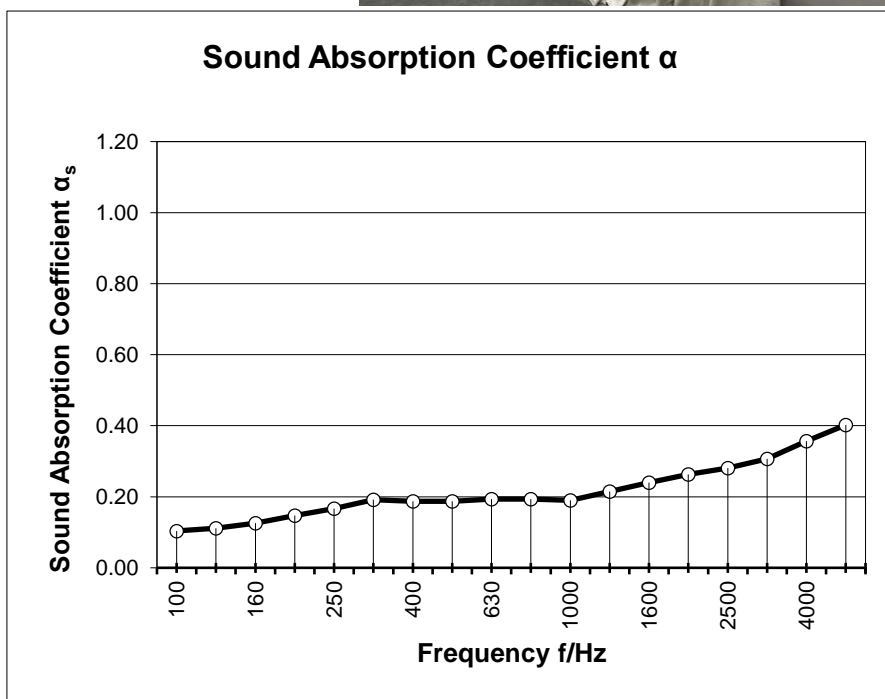
**Mounting**

100mm distance to the wall  
 1 layer of curtains, 2 elements 4000x3010mm with approx. 20mm overlap, 100% folded, 200% textile length  
 Total dimensions of the test object  
 L x H = 3990mm x 3010mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.01 m<sup>2</sup>  
 Date of test 19-01-24



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.10	
125	0.11	0.10
160	0.13	
200	0.15	
250	0.17	0.15
315	0.19	
400	0.19	
500	0.19	0.20
630	0.19	
800	0.19	
1000	0.19	0.20
1260	0.22	
1600	0.24	
2000	0.26	0.25
2500	0.28	
3160	0.31	
4000	0.36	0.35
5000	0.40	



$\alpha_s$  Sound absorption coefficient to ISO 354  
 $\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.20</b>
<b>SAA:</b>	<b>0.2</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.25$**

Sound absorption class:E

## Sound Absorption Coefficient ISO 354

### Measurement of absorption in reverberation rooms

**Client** kinnasand / kvadrat  
**Test Specimen** Curtains Flat

#### Mounting type G-150

One layer of textile  
 Textile: Warm Up from kinnasand / kvadrat

#### Test Build-Up (from top to bottom):

1.09 mm Front textile  
 150 mm Air gap  
 Reflective wall

#### Mounting

150mm distance to the wall

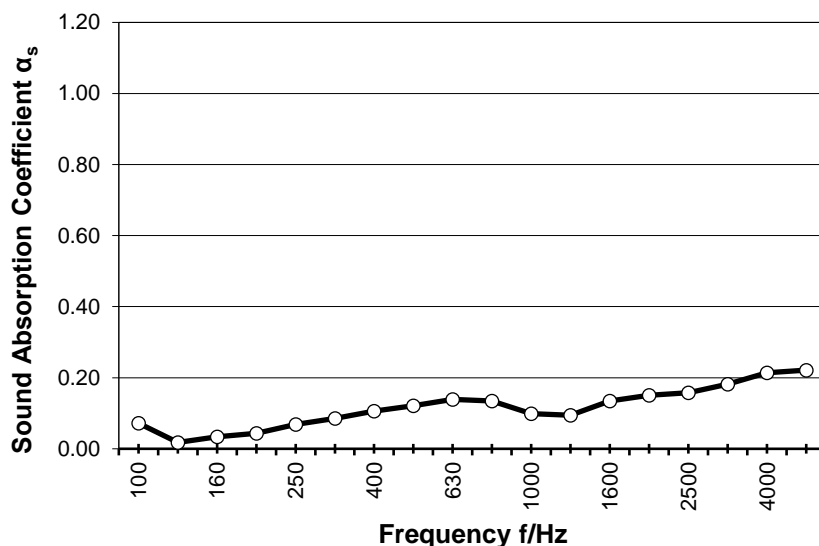
Flat curtains 1 element 4000x3010mm  
 Total dimensions of the test object  
 L x H = 4000mm x 3010mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.04 m<sup>2</sup>  
 Date of test 19/01/2024



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.07	
125	0.02	0.05
160	0.03	
200	0.04	
250	0.07	0.05
315	0.09	
400	0.11	
500	0.12	0.10
630	0.14	
800	0.13	
1000	0.10	0.10
1260	0.09	
1600	0.13	
2000	0.15	0.15
2500	0.16	
3160	0.18	
4000	0.21	0.20
5000	0.22	

#### Sound Absorption Coefficient $\alpha$



$\alpha_s$  Sound absorption coefficient to ISO 354  
 $\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.10</b>
<b>SAA:</b>	<b>0.11</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.15$**

Sound absorption class: E

## Sound Absorption Coefficient ISO 354

### Measurement of absorption in reverberation rooms

**Client** Kinnasand / kvadrat  
**Test Specimen** Curtains Folded 100%

**Mounting type G-150**

One layer of textile

Textile: Warm Up from Kinnasand

**Test Build-Up (from top to bottom):**

1.09 mm Front textile  
 150 mm Air gap  
 Reflective wall

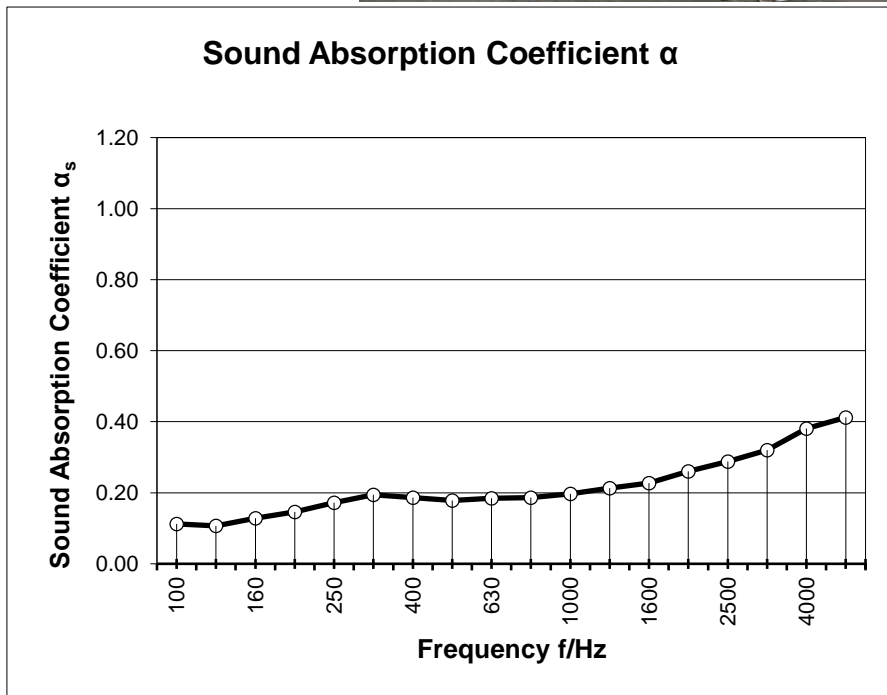
**Mounting**

150mm distance to the wall  
 1 layer of curtains, 2 elements 4000x3010mm with approx. 20mm overlap, 100% folded, 200% textile length  
 Total dimensions of the test object  
 L x H = 3990mm x 3010mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.01 m<sup>2</sup>  
 Date of test 19-01-24



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.11	
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160	0.13	
200	0.15	
250	0.17	0.15
315	0.19	
400	0.19	
500	0.18	0.20
630	0.18	
800	0.19	
1000	0.20	0.20
1260	0.21	
1600	0.23	
2000	0.26	0.25
2500	0.29	
3160	0.32	
4000	0.38	0.35
5000	0.41	



$\alpha_s$  Sound absorption coefficient to ISO 354  
 $\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.20</b>
<b>SAA:</b>	<b>0.2</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.25$**

Sound absorption class:E