

## 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: Shutter from Kinnasand  
 100% Polyester FR

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

0.55 mm Front textile  
 100 mm Air gap  
 Reflective wall

#### Mounting

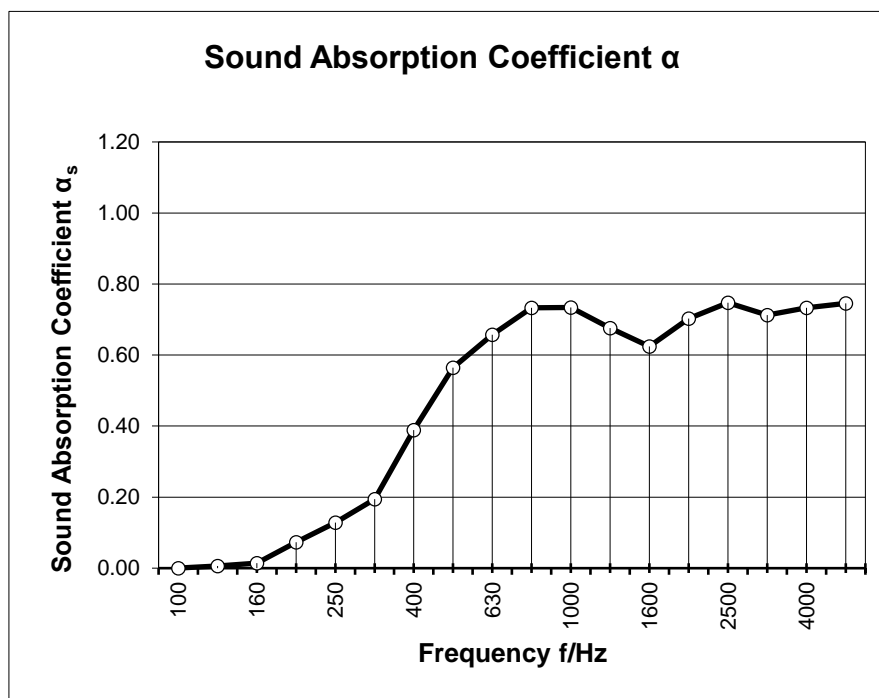
100mm distance to the wall

Flat curtains 1 element 4000x3000mm  
 Total dimensions of the test object  
 L x H = 4000mm x 3000mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.00 m<sup>2</sup>  
 Date of test 28-06-22



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.00	
125	0.01	0.00
160	0.01	
200	0.07	
250	0.13	0.15
315	0.19	
400	0.39	
500	0.56	0.55
630	0.66	
800	0.73	
1000	0.73	0.70
1260	0.68	
1600	0.62	
2000	0.70	0.70
2500	0.75	
3160	0.71	
4000	0.73	0.75
5000	0.75	



$\alpha_s$  Sound absorption coefficient to ISO 354

$\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.50</b>
<b>SAA:</b>	<b>0.52</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.45$  (H)**

Sound absorption class: D

## 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: Shutter from Kinnasand  
 100% Polyester FR

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

0.55 mm Front textile  
 100 mm Air gap  
 Reflective wall

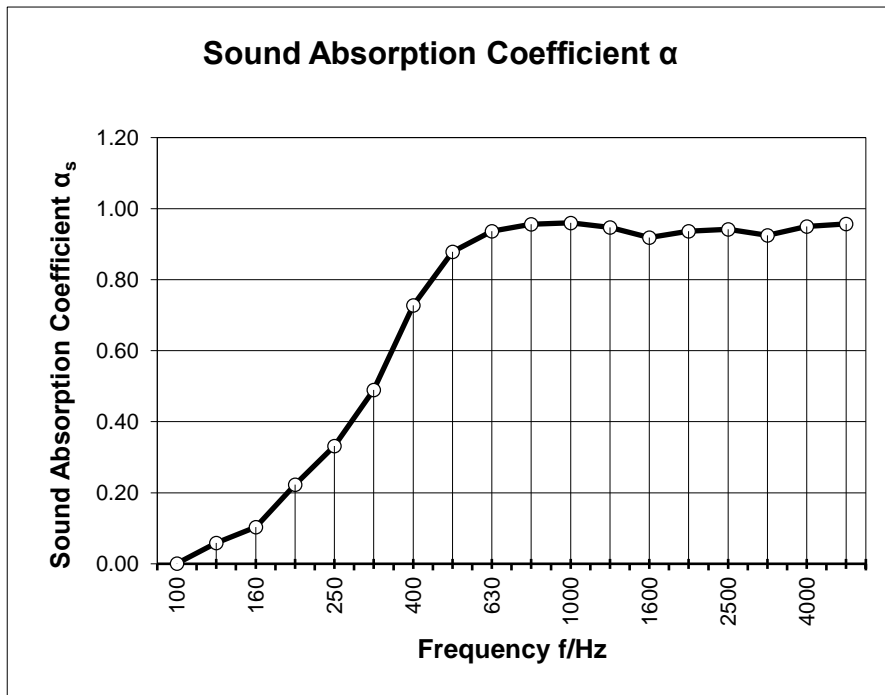
#### Mounting

100mm distance to the wall  
 1 layer of curtains, 2 elements 4000x3000mm with approx. 20mm overlap, 100% folded, 200% textile length  
 Total dimensions of the test object  
 L x H = 3990mm x 3000mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 11.97 m<sup>2</sup>  
 Date of test 28-06-22



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.00	
125	0.06	0.05
160	0.10	
200	0.22	
250	0.33	0.35
315	0.49	
400	0.73	
500	0.88	0.85
630	0.94	
800	0.96	
1000	0.96	0.95
1260	0.95	
1600	0.92	
2000	0.94	0.95
2500	0.94	
3160	0.93	
4000	0.95	0.95
5000	0.96	



$\alpha_s$  Sound absorption coefficient to ISO 354

$\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.75</b>
<b>SAA:</b>	<b>0.77</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.65$  (MHH)**

Sound absorption class:C

## 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: Shutter from Kinnasand  
 100% Polyester FR

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

0.55 mm Front textile  
 150 mm Air gap  
 Reflective wall

#### Mounting

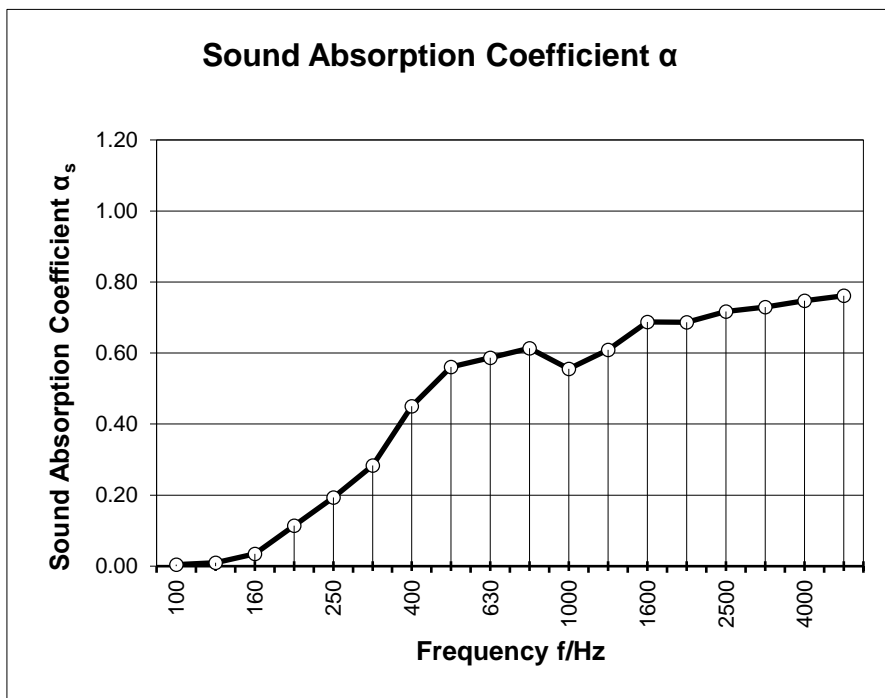
150mm distance to the wall

Flat curtains 1 element 4000x3000mm  
 Total dimensions of the test object  
 L x H = 4000mm x 3000mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.00 m<sup>2</sup>  
 Date of test 28-06-22



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.00	
125	0.01	0.00
160	0.03	
200	0.11	
250	0.19	0.20
315	0.28	
400	0.45	
500	0.56	0.55
630	0.59	
800	0.61	
1000	0.56	0.60
1260	0.61	
1600	0.69	
2000	0.69	0.70
2500	0.72	
3160	0.73	
4000	0.75	0.75
5000	0.76	



$\alpha_s$  Sound absorption coefficient to ISO 354

$\alpha_p$  Practical sound absorption coefficient to ISO 11654

<b>NRC:</b>	<b>0.50</b>
<b>SAA:</b>	<b>0.5</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.5$  (H)**

Sound absorption class: D

## 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: Shutter from Kinnasand  
 100% Polyester FR

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

- 0.55 mm Front textile
- 150 mm Air gap
- Reflective wall

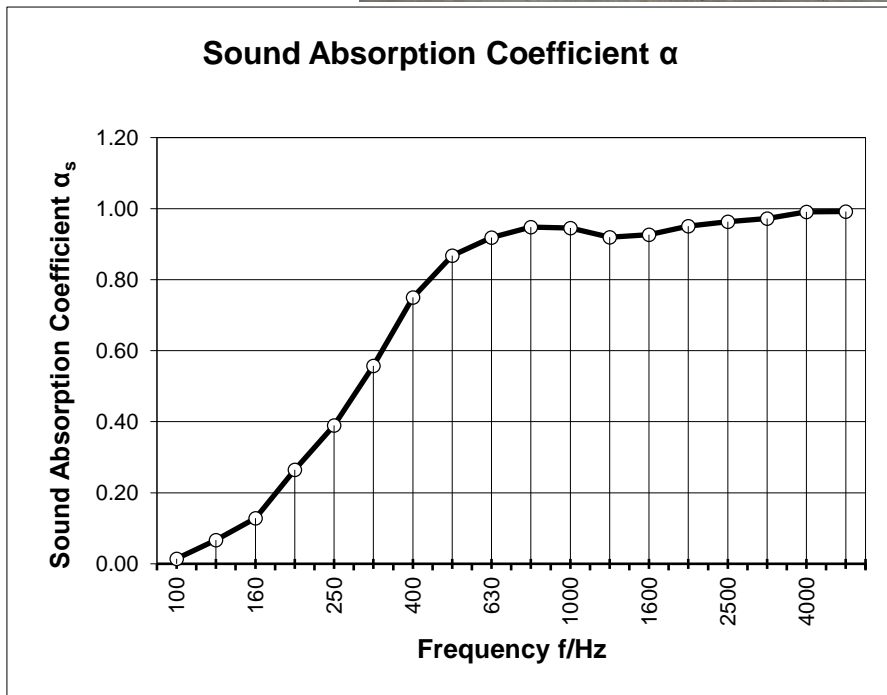
**Mounting**

150mm distance to the wall  
 1 layer of curtains, 2 elements 4000x3000mm with approx. 20mm overlap, 100% folded, 200% textile length  
 Total dimensions of the test object  
 L x H = 3990mm x 3000mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 11.97 m<sup>2</sup>  
 Date of test 28-06-22



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.01	
125	0.07	0.05
160	0.13	
200	0.26	
250	0.39	0.40
315	0.56	
400	0.75	
500	0.87	0.85
630	0.92	
800	0.95	
1000	0.95	0.95
1260	0.92	
1600	0.93	
2000	0.95	0.95
2500	0.96	
3160	0.97	
4000	0.99	1.00
5000	0.99	



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

<b>NRC:</b>	<b>0.80</b>
<b>SAA:</b>	<b>0.78</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.7$  (MHH)**

Sound absorption class:C