

## Sound Absorption Coefficient ISO 354

### Measurement of absorption in reverberation rooms

**Client** Sahco / Kvadrat  
**Test Specimen** Curtains  
 Flat  
**Wall mounting - 100mm distance**  
 One layer of textile  
  
 Textile: Space from Sahco colour: 2  
 100% Polyester FR

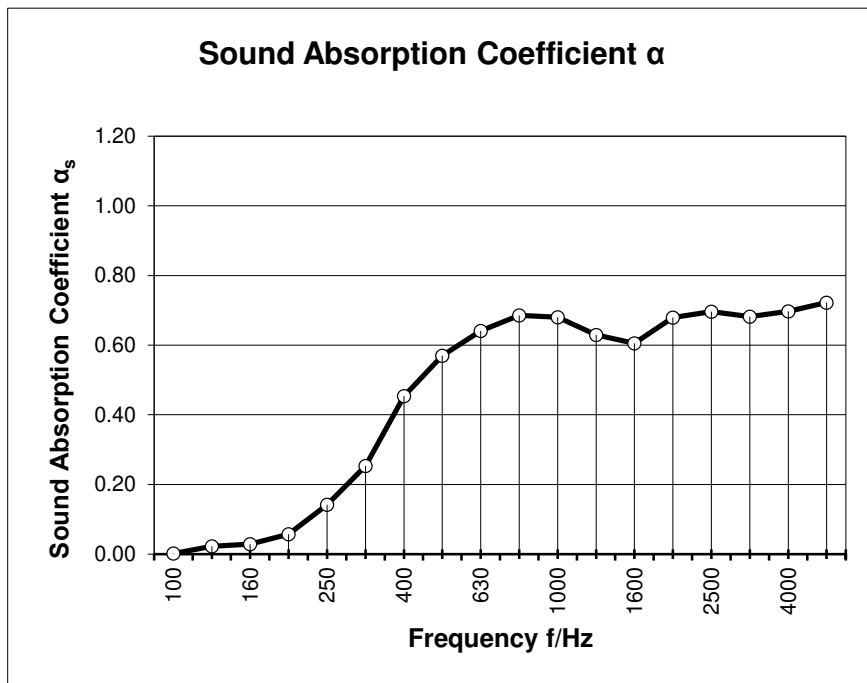
**Test Build-Up (from top to bottom):**  
 1 mm Front textile  
 100 mm Air gap  
 Reflective wall

**Mounting**  
 100mm distance to the wall  
  
 Flat curtains 1 element 4000x3000mm  
 Total dimensions of the test object  
 L x H = 4000mm x 2975mm

**Room:** Reverberation Room  
**Volume:** 156 m<sup>3</sup>  
**Size:** 11.90 m<sup>2</sup>  
**Date of test** 27-07-20



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.00	
125	0.02	0.00
160	0.03	
200	0.06	
250	0.14	0.15
315	0.25	
400	0.45	
500	0.57	0.55
630	0.64	
800	0.69	
1000	0.68	0.65
1260	0.63	
1600	0.61	
2000	0.68	0.65
2500	0.70	
3160	0.68	
4000	0.70	0.70
5000	0.72	



$\alpha_s$  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>0.51</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** Sahco / Kvadrat  
**Test Specimen** Curtains  
 Folded 100%  
**Wall mounting with 100mm distance**  
 One layer of textile  
  
 Textile: Space from Sahco colour: 2  
 100% Polyester FR

**Test Build-Up (from top to bottom):**  
 1 mm Front textile  
 100 mm Air gap  
 Reflective wall

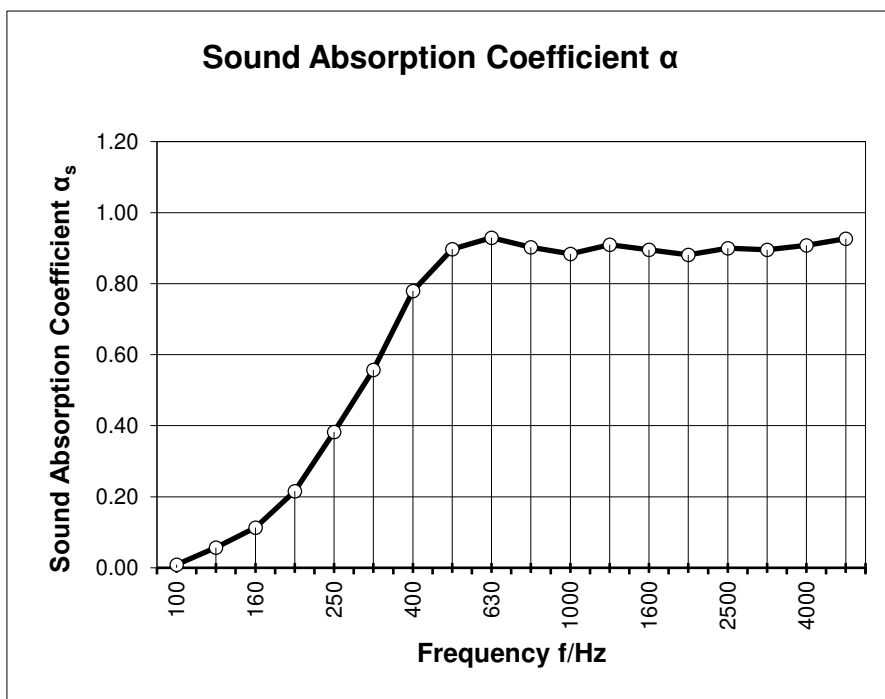
#### Mounting

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 = 3980mm x 2975mm

Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 11.84 m<sup>2</sup>  
 Date of test 27-07-20



Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.01	
125	0.06	0.05
160	0.11	
200	0.22	
250	0.38	0.40
315	0.56	
400	0.78	
500	0.90	0.85
630	0.93	
800	0.90	
1000	0.88	0.90
1260	0.91	
1600	0.90	
2000	0.88	0.90
2500	0.90	
3160	0.90	
4000	0.91	0.90
5000	0.93	



$\alpha_s$  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>0.76</b>

Rating according to ISO 11654:

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

Sound absorption class:C