

## Sound Absorption Coefficient ISO 354

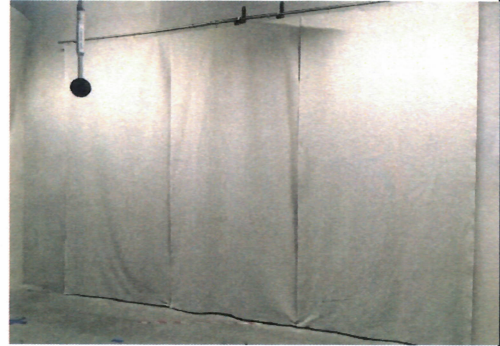
### Measurement of absorption in reverberation rooms

**Client** Kvadrat  
**Test Specimen** Curtains  
 Flat  
**Wall mounting - 100mm distance**  
 One layer of textile

Textile: Encircle from Kvadrat colour: 222  
 100% Trevira CS

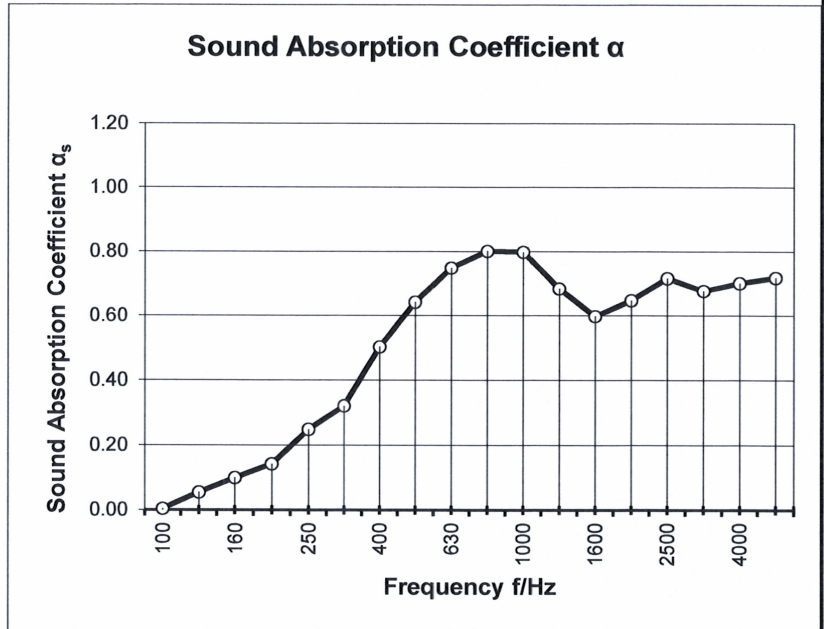
**Test Build-Up (from top to bottom):**  
 1 mm Front textile  
 100 mm Air gap  
 Reflective wall

**Mounting**  
 100mm distance to the wall  
 Flat curtains 3 elements 1420x3020mm with approx.  
 20mm overlap  
 Total dimensions of the test object  
 L x H = 4220mm x 3020mm



Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 12.74 m<sup>2</sup>  
 Date of test 16-09-20

Frequency [Hz]	$\alpha_s$ 1/3 octave	$\alpha_p$ octave
100	0.00	
125	0.05	0.05
160	0.10	
200	0.14	
250	0.25	0.25
315	0.32	
400	0.50	
500	0.64	0.65
630	0.75	
800	0.80	
1000	0.80	0.75
1260	0.68	
1600	0.60	
2000	0.65	0.65
2500	0.72	
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>0.55</b>
<b>SAA:</b>	<b>0.57</b>

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.55$  (H)**

Sound absorption class:D

## Sound Absorption Coefficient ISO 354

### Measurement of absorption in reverberation rooms

**Client** Kvadrat  
**Test Specimen** Curtains  
 Folded 100%  
**Wall mounting with 100mm distance**  
 One layer of textile

Textile: Encircle from Kvadrat colour: 222  
 100% Trevira CS

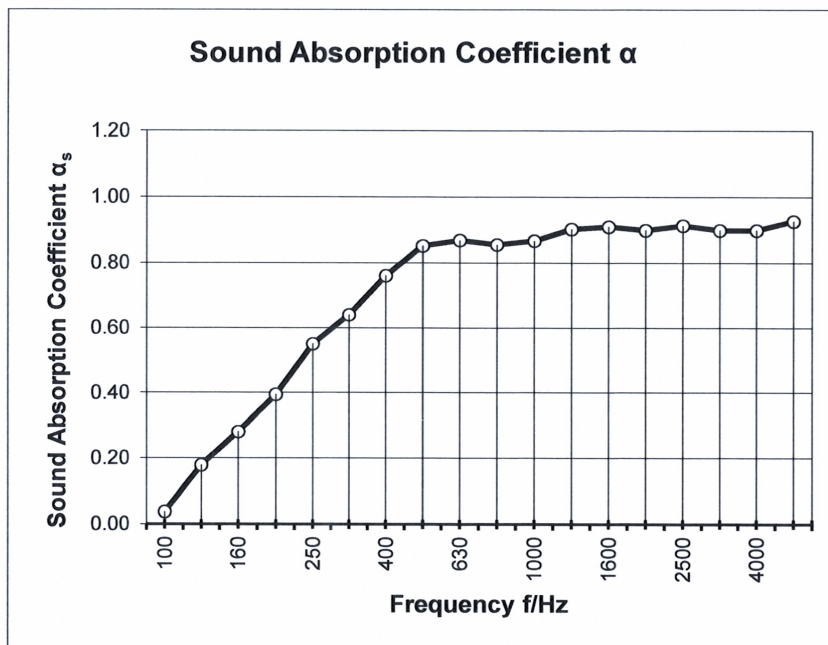
**Test Build-Up (from top to bottom):**  
 1 mm Front textile  
 100 mm Air gap  
 Reflective wall

**Mounting**  
 100mm distance to the wall  
 1 layer of curtains, 5 elements 1420x3020mm with approx.  
 20mm overlap, 100% folded, 200% textile length  
 Total dimensions of the test object  
 L x H = 3470mm x 3020mm



Room: Reverberation Room  
 Volume: 156 m<sup>3</sup>  
 Size: 10.48 m<sup>2</sup>  
 Date of test 16-09-20

Frequency [Hz]	as 1/3 octave	ap octave
100	0.04	
125	0.18	0.15
160	0.28	
200	0.39	
250	0.55	0.55
315	0.64	
400	0.76	
500	0.85	0.85
630	0.87	
800	0.86	
1000	0.87	0.90
1260	0.90	
1600	0.91	
2000	0.90	0.90
2500	0.91	
3160	0.90	
4000	0.90	0.90
5000	0.93	



as Sound absorption coefficient to ISO 354

ap Practical sound absorption coefficient to ISO 11654

**NRC: 0.80**  
**SAA: 0.78**

Rating according to ISO 11654:

**Weighted Sound Absorption Coefficient  $\alpha_w = 0.85$**

Sound absorption class: B