

## SOUND ABSORPTION MEASUREMENTS according to EN 20354

Client : ASONA  
 Project number : 008.04956/01.01  
 Date : 2003-07-15

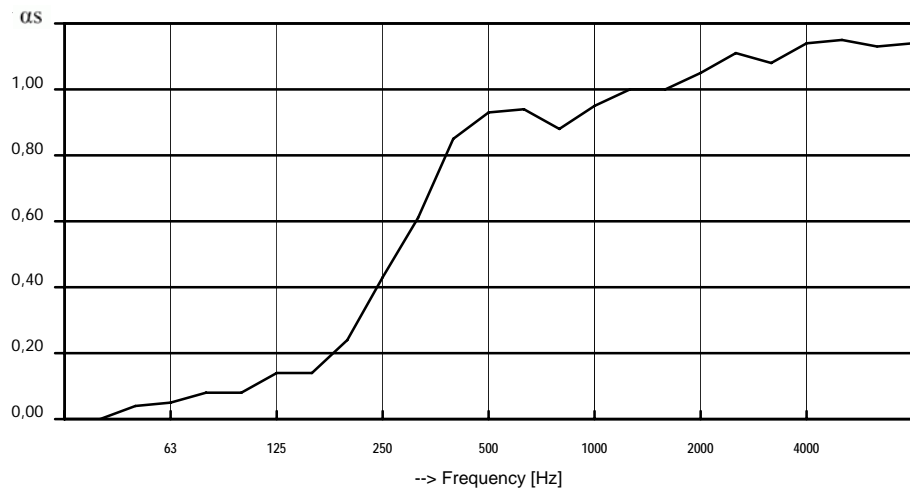
Product : K-13 Standard  
 Tested in : Rev. chamber TNO TPD

Description : Sonaspray K-13 Standard 16 mm

Surface : 12,0 m<sup>2</sup>  
 Temperature : 23,0 °C  
 Relative humidity : 49,0 %

Volume : 200 m<sup>3</sup>  
 Two speaker position  
 Noise signal

Freq.	$\alpha_s$	$\alpha_p$
Hz	1/3 oct dB	1/1 oct dB
50	0,04	
<b>63</b>	0,05	0,05
80	0,08	
100	0,08	
<b>125</b>	0,14	0,10
160	0,14	
200	0,24	
<b>250</b>	0,43	0,40
315	0,61	
400	0,85	
<b>500</b>	0,93	0,90
630	0,94	
800	0,88	
<b>1000</b>	0,95	0,95
1250	1,00	
1600	1,00	
<b>2000</b>	1,05	1,00
2500	1,11	
3150	1,08	
<b>4000</b>	1,14	1,00
5000	1,15	



**Weighted sound absorption coefficient (EN-ISO 11654)**

**$\alpha_w = 0,70$ ( MH); class C**

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Client : ASONA  
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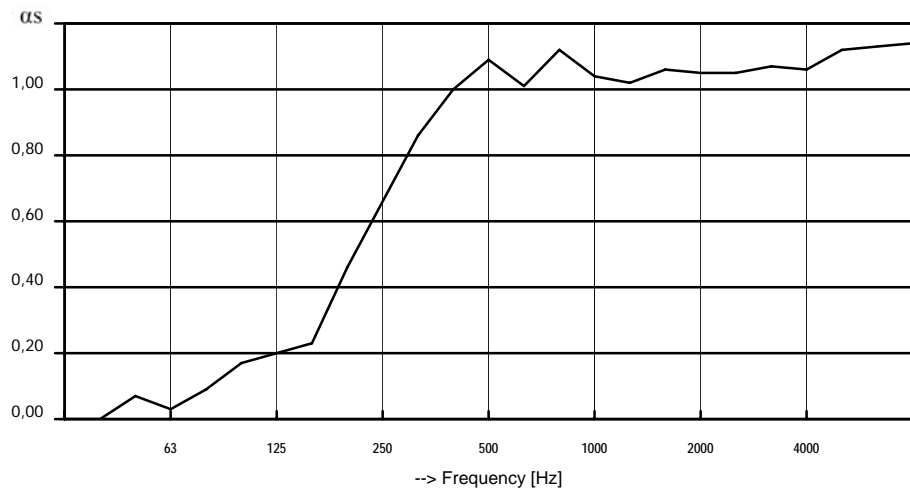
Product : K-13 Standard  
 Tested in : Rev. chamber TNO TPD

Description : Sonaspray K-13 Standard 38 mm

Surface : 12,0 m<sup>2</sup>  
 Temperature : 23,0 °C  
 Relative humidity : 49,0 %

Volume : 200 m<sup>3</sup>  
 Two speaker position  
 Noise signal

Freq.	$\alpha_s$	$\alpha_p$
Hz	1/3 oct dB	1/1 oct dB
50	0,07	
<b>63</b>	0,03	0,05
80	0,09	
100	0,17	
<b>125</b>	0,20	0,20
160	0,23	
200	0,46	
<b>250</b>	0,66	0,65
315	0,86	
400	1,00	
<b>500</b>	1,09	1,00
630	1,01	
800	1,12	
<b>1000</b>	1,04	1,00
1250	1,02	
1600	1,06	
<b>2000</b>	1,05	1,00
2500	1,05	
3150	1,07	
<b>4000</b>	1,06	1,00
5000	1,12	



**Weighted sound absorption coefficient (EN-ISO 11654)**

$\alpha_w = 0,95( )$ ; class A

## SOUND ABSORPTION MEASUREMENTS according to EN 20354

Client : ASONA  
 Project number : 008.04233/01.01  
 Date : 2002-11-13

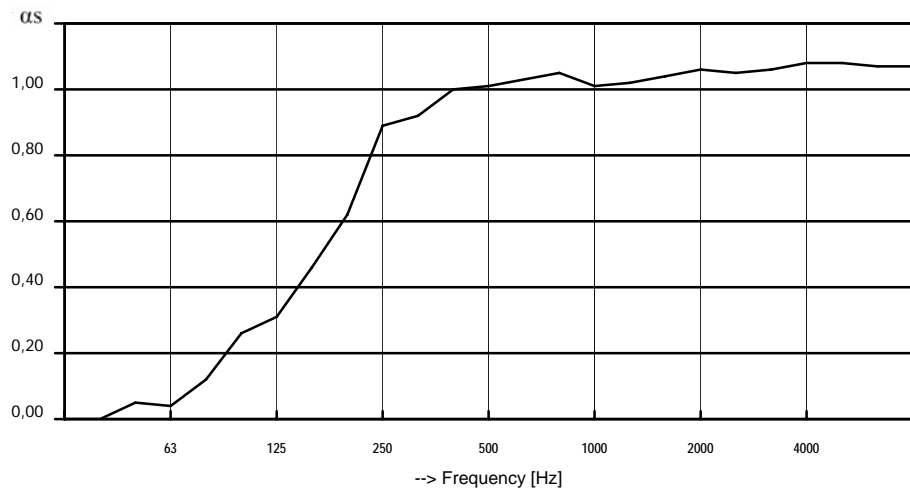
Product : K-13 Standard  
 Tested in : Rev. chamber TNO TPD

Description : Sonaspray K-13 Standard 50 mm

Surface : 12,0 m<sup>2</sup>  
 Temperature : 17,0 °C  
 Relative humidity : 62,0 %

Volume : 200 m<sup>3</sup>  
 Two speaker position  
 Noise signal

Freq.	$\alpha_s$	$\alpha_p$
Hz	1/3 oct dB	1/1 oct dB
50	0,05	
<b>63</b>	0,04	0,05
80	0,12	
100	0,26	
<b>125</b>	0,31	0,35
160	0,46	
200	0,62	
<b>250</b>	0,89	0,80
315	0,92	
400	1,00	
<b>500</b>	1,01	1,00
630	1,03	
800	1,05	
<b>1000</b>	1,01	1,00
1250	1,02	
1600	1,04	
<b>2000</b>	1,06	1,00
2500	1,05	
3150	1,06	
<b>4000</b>	1,08	1,00
5000	1,08	



**Weighted sound absorption coefficient (EN-ISO 11654)**

$\alpha_w = 1,00( )$ ; class A

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Client : ASONA  
 Project number : 008.04956/01.01  
 Date : 2003-07-15

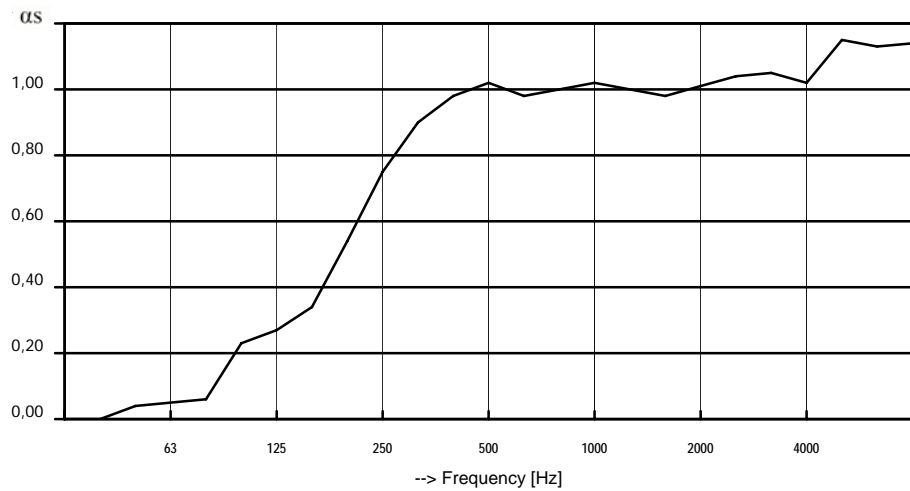
Product : K-13 Standard  
 Tested in : Rev. chamber TNO TPD

Description : Sonaspray K-13 Standard 57 mm

Surface : 12,0 m<sup>2</sup>  
 Temperature : 24,0 °C  
 Relative humidity : 50,0 %

Volume : 200 m<sup>3</sup>  
 Two speaker position  
 Noise signal

Freq.	$\alpha_s$	$\alpha_p$
Hz	1/3 oct dB	1/1 oct dB
50	0,04	
<b>63</b>	0,05	0,05
80	0,06	
100	0,23	
<b>125</b>	0,27	0,30
160	0,34	
200	0,54	
<b>250</b>	0,75	0,70
315	0,90	
400	0,98	
<b>500</b>	1,02	1,00
630	0,98	
800	1,00	
<b>1000</b>	1,02	1,00
1250	1,00	
1600	0,98	
<b>2000</b>	1,01	1,00
2500	1,04	
3150	1,05	
<b>4000</b>	1,02	1,00
5000	1,15	



**Weighted sound absorption coefficient (EN-ISO 11654)**

$\alpha_w = 1,00( )$ ; class A

## SOUND ABSORPTION MEASUREMENTS according to EN 20354

Client : ASONA  
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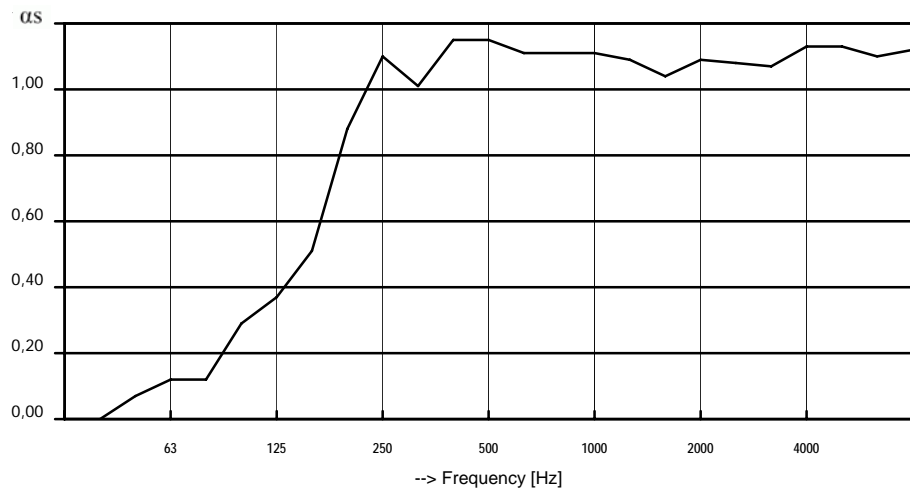
Product : K-13 Standard  
 Tested in : Rev. chamber TNO TPD

Description : Sonaspray K-13 Standard 70 mm

Surface : 12,0 m<sup>2</sup>  
 Temperature : 24,0 °C  
 Relative humidity : 50,0 %

Volume : 200 m<sup>3</sup>  
 Two speaker position  
 Noise signal

Freq.	$\alpha_s$	$\alpha_p$
Hz	1/3 oct dB	1/1 oct dB
50	0,07	
<b>63</b>	0,12	0,10
80	0,12	
100	0,29	
<b>125</b>	0,37	0,40
160	0,51	
200	0,88	
<b>250</b>	1,10	1,00
315	1,01	
400	1,15	
<b>500</b>	1,15	1,00
630	1,11	
800	1,11	
<b>1000</b>	1,11	1,00
1250	1,09	
1600	1,04	
<b>2000</b>	1,09	1,00
2500	1,08	
3150	1,07	
<b>4000</b>	1,13	1,00
5000	1,13	



**Weighted sound absorption coefficient (EN-ISO 11654)**

$\alpha_w = 1,00( )$ ; class A