Introduction

Alpha and NRC – What do they mean?

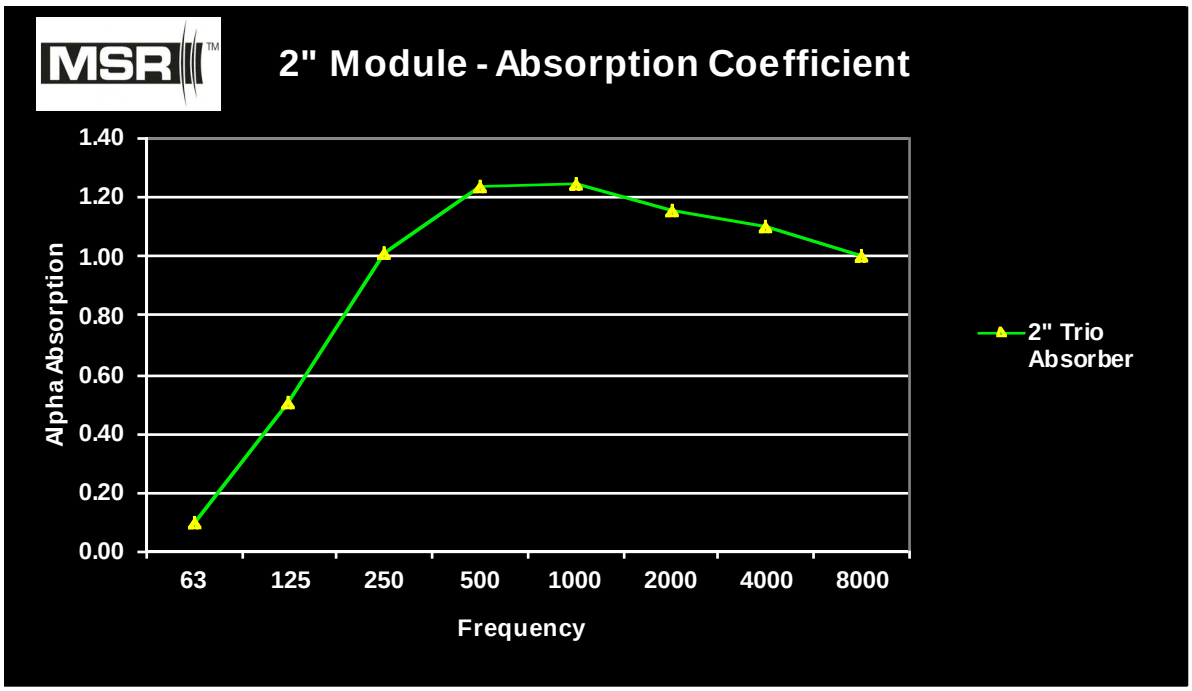
Absorption devices are defined by a coefficient called Alpha. The higher the Alpha coefficient, the better the absorption character of the acoustical module. Alpha is specified in octave bands from 63Hz to 8kHz, and one would want as high a number as possible across all the bands of frequencies. An average number, across the four middle bands from 250Hz to 2kHz is know as the Noise Reduction Coefficient (NRC), and is useful for fast comparison between products.

However, do notice that many products have limited usefulness at low frequencies, and this may result in a boomy character to the sound of a treated room. Pay close attention to the bands below 500Hz when choosing your acoustical modules.

Trio™ Acoustical Treatments
SPECIFICATIONS

Absorber Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
2" Trio Absorber	0.10	0.51	1.01	1.24	1.25	1.16	1.10	1.00



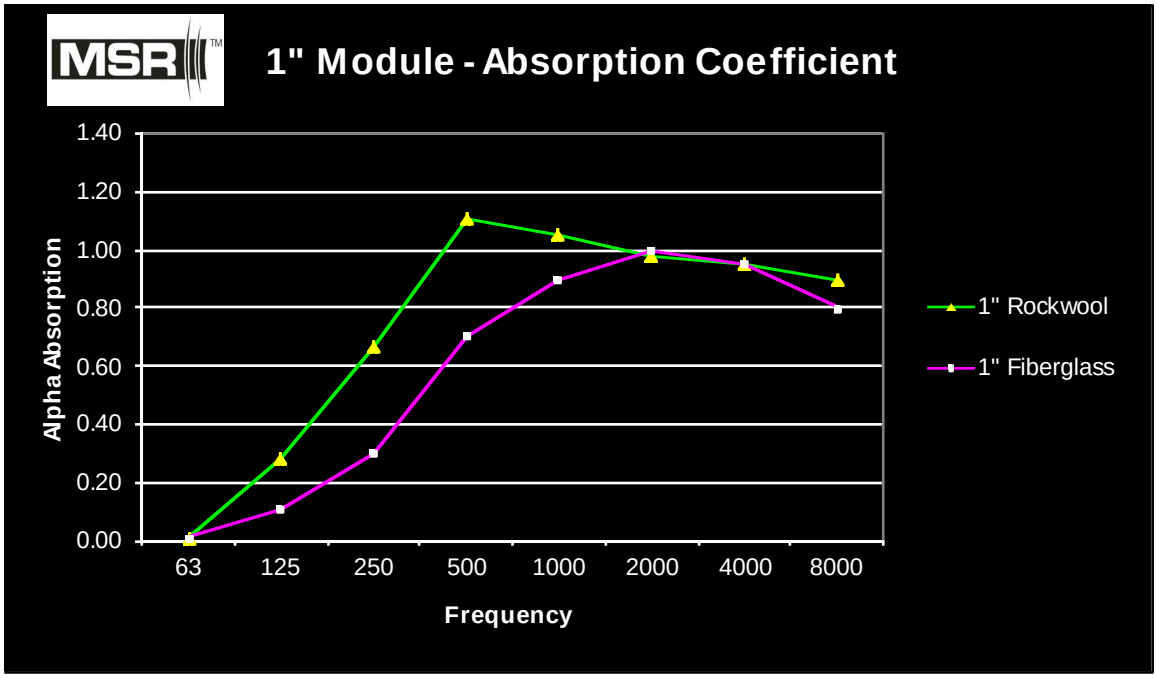
Scattering Coefficient

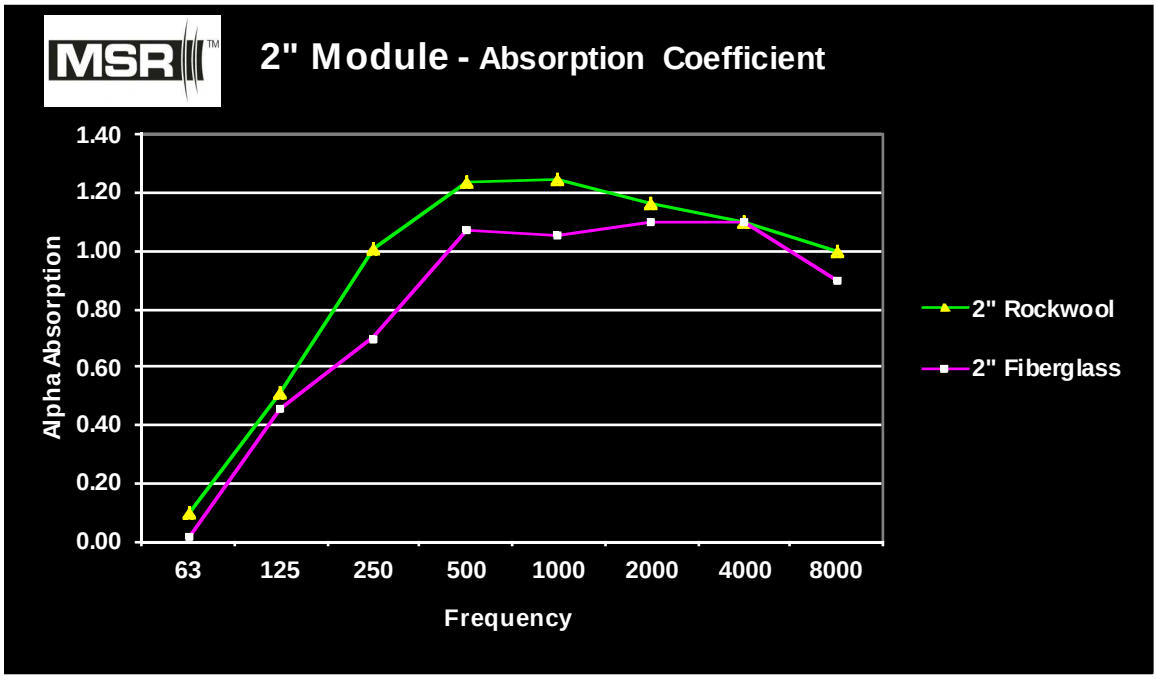
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Trio Strips	0.00	0.00	0.05	0.15	0.30	0.40	0.35	0.20

SõN™ Acoustics
SPECIFICATIONS

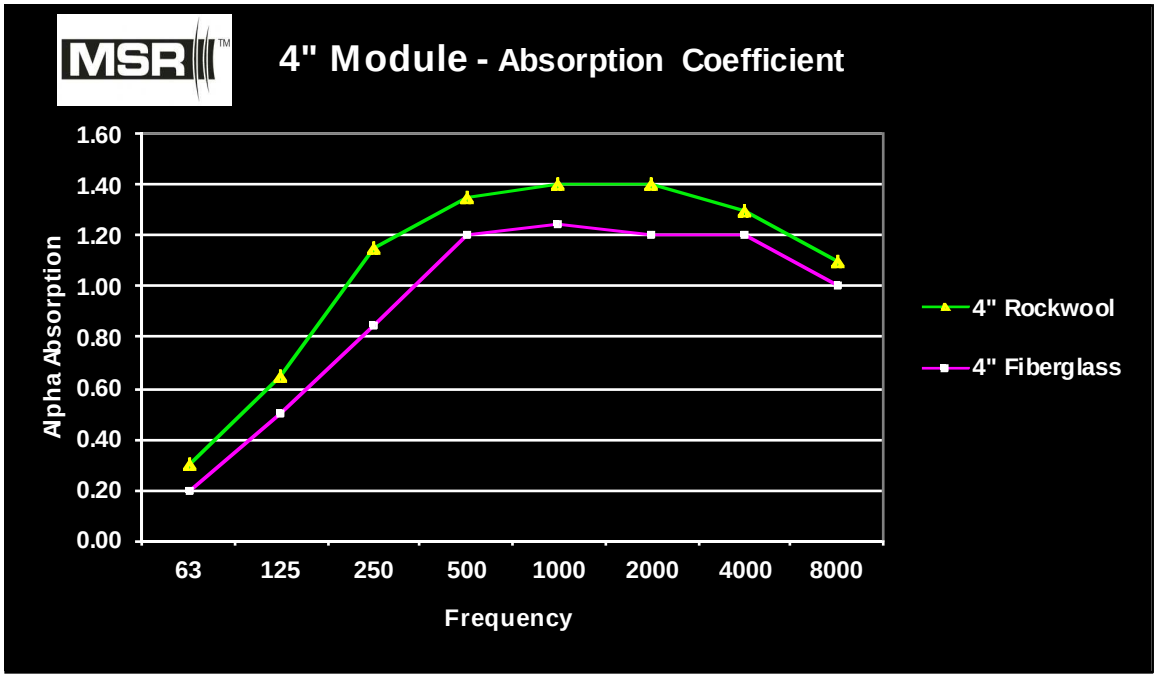
Absorber Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
1" Rockwool	0.01	0.28	0.67	1.11	1.05	0.98	0.95	0.90
2" Rockwool	0.10	0.51	1.01	1.24	1.25	1.16	1.10	1.00
4" Rockwool	0.30	0.65	1.15	1.35	1.40	1.40	1.30	1.10
1" Fiberglass	0.01	0.11	0.30	0.70	0.90	1.00	0.95	0.80
2" Fiberglass	0.02	0.46	0.70	1.07	1.05	1.10	1.10	0.90
4" Fiberglass	0.20	0.50	0.85	1.20	1.25	1.20	1.20	1.00





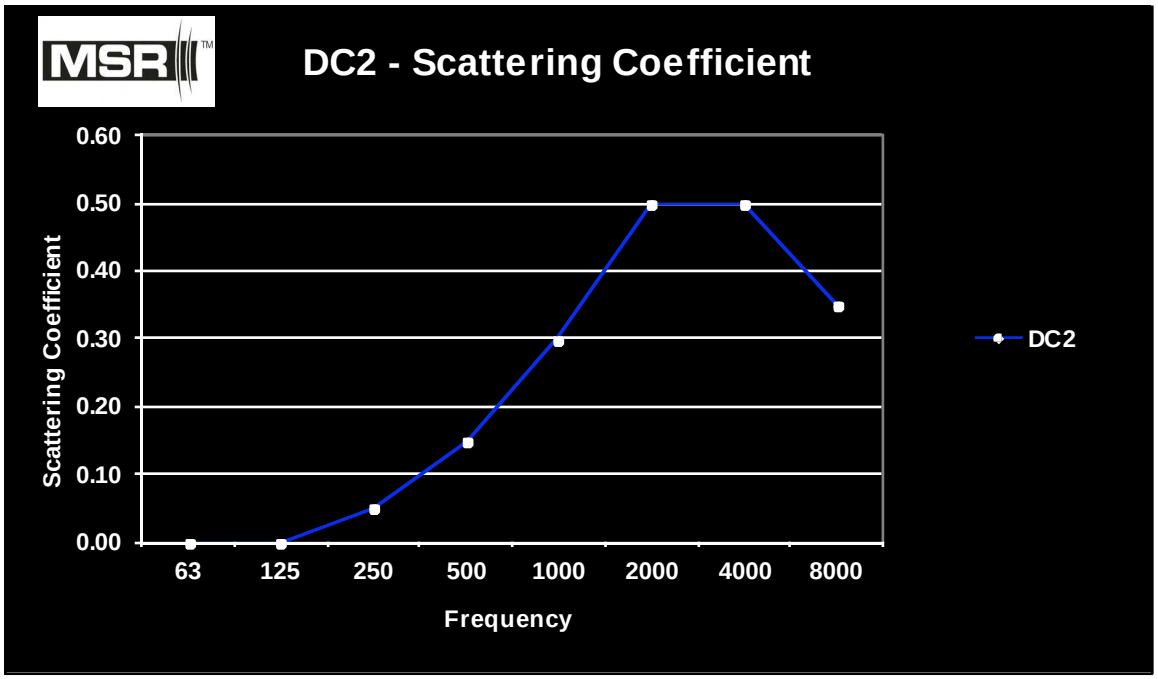
SõN™ Acoustics
SPECIFICATIONS

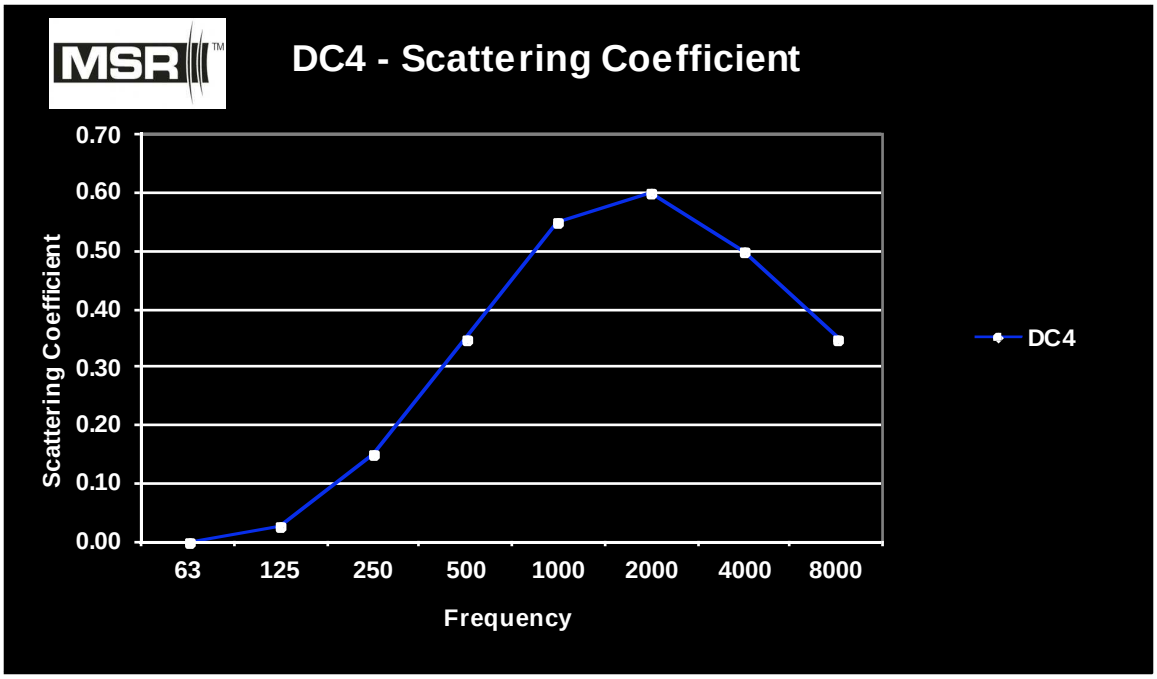


SõN™ Acoustics
SPECIFICATIONS

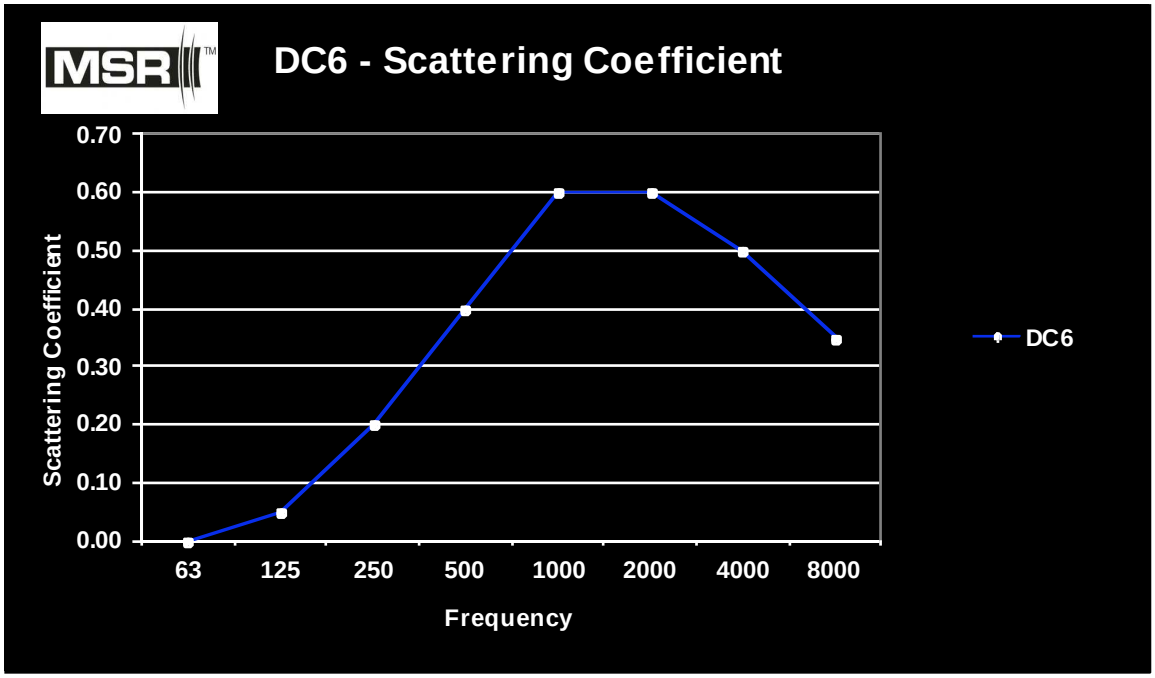
Scattering Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
DC2	0.00	0.00	0.05	0.15	0.30	0.50	0.50	0.35
DC4	0.00	0.03	0.15	0.35	0.55	0.60	0.50	0.35
DC6	0.00	0.05	0.20	0.40	0.60	0.60	0.50	0.35





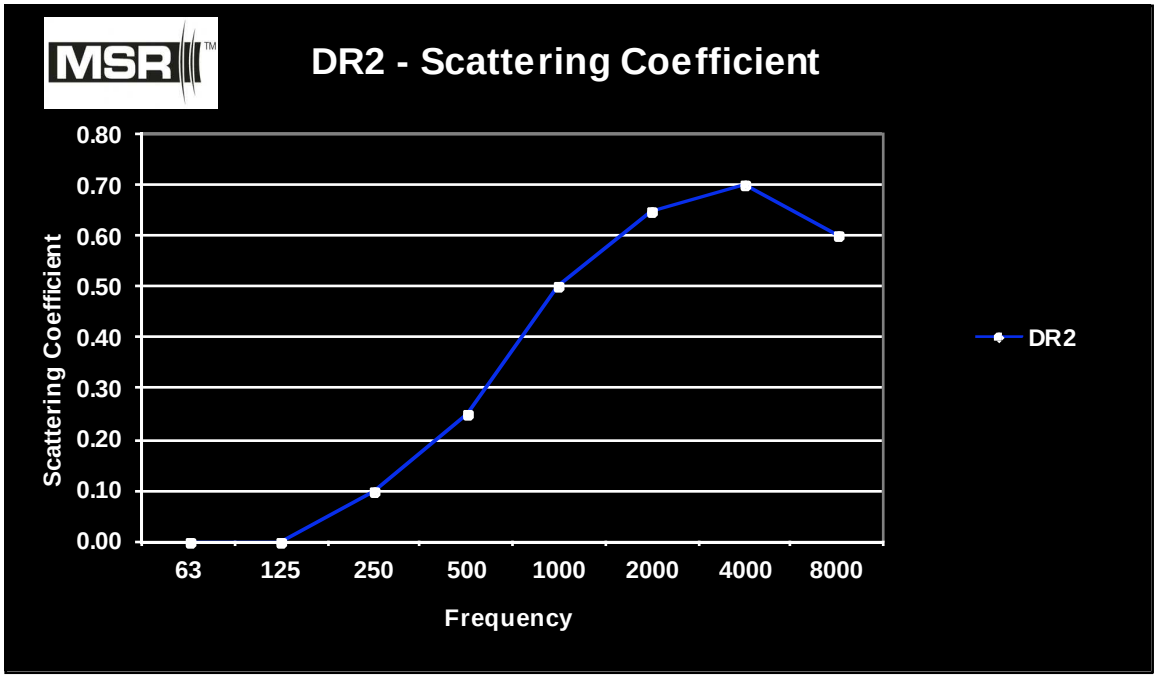
SõN™ Acoustics
SPECIFICATIONS

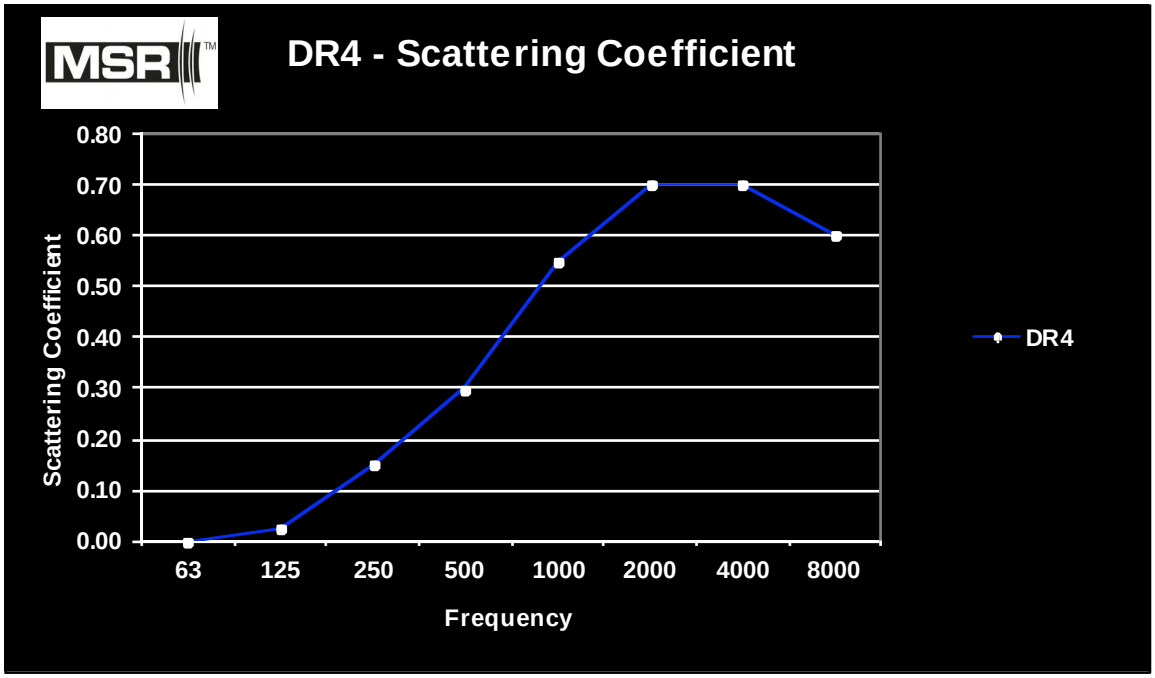


SõN™ Acoustics
SPECIFICATIONS

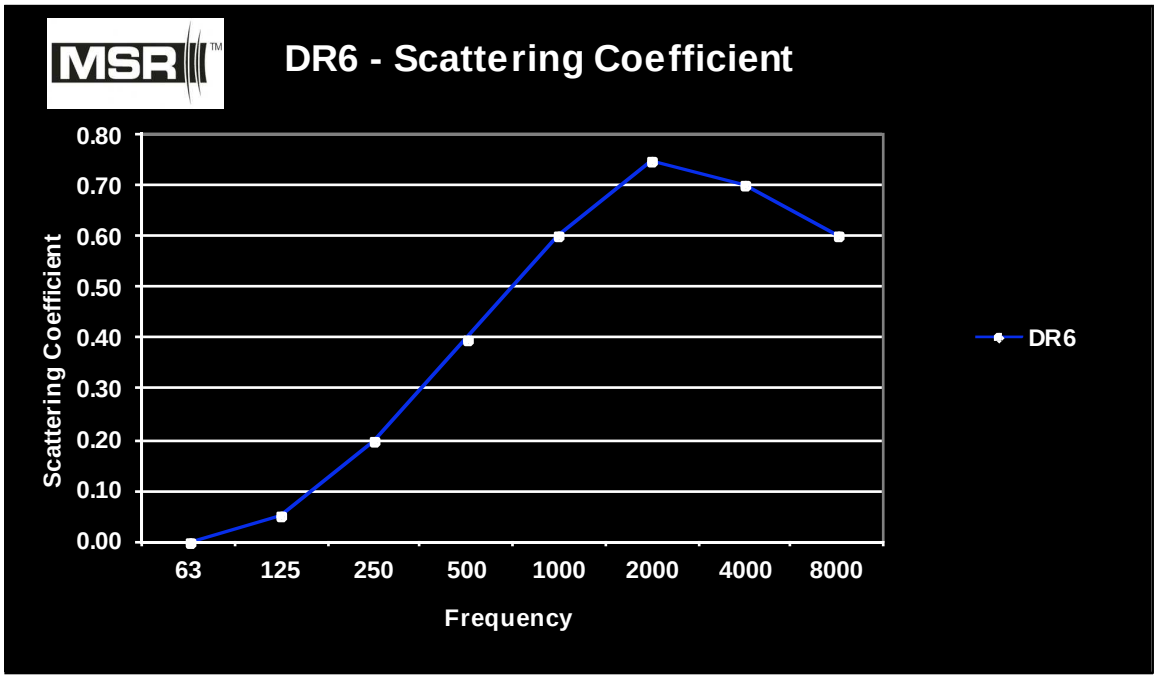
Scattering Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
DR2	0.00	0.00	0.10	0.25	0.50	0.65	0.70	0.60
DR4	0.00	0.03	0.15	0.30	0.55	0.70	0.70	0.60
DR6	0.00	0.05	0.20	0.40	0.60	0.75	0.70	0.60





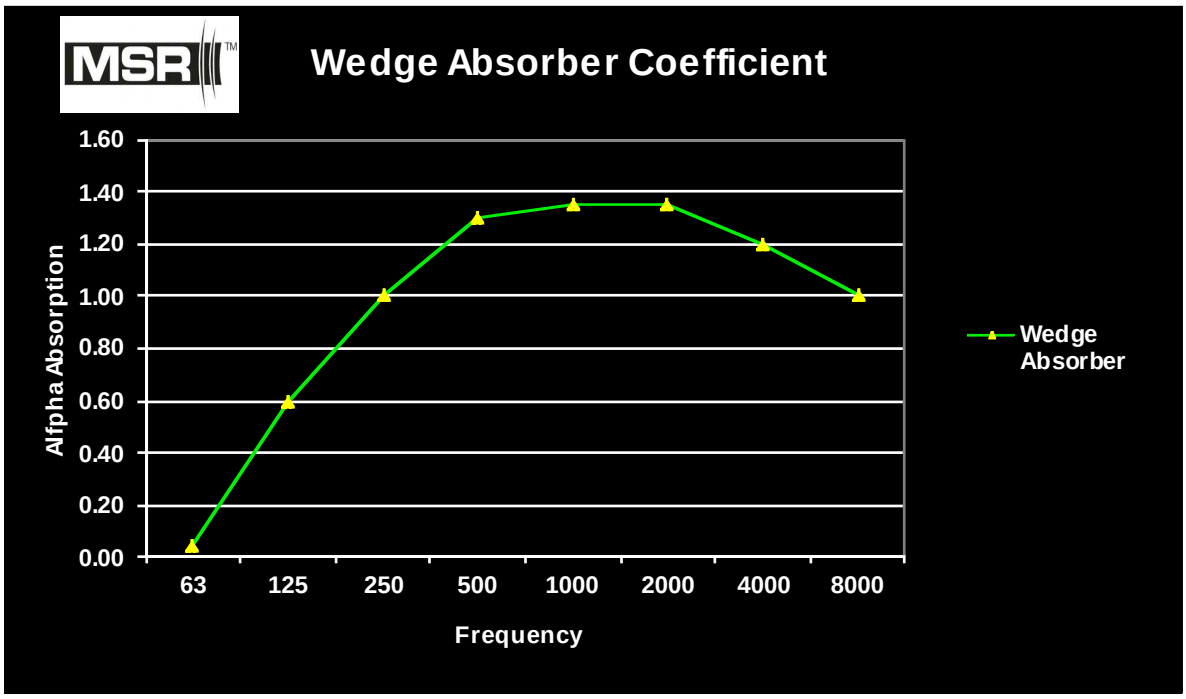
SõN™ Acoustics
SPECIFICATIONS



Project™ Acoustical Treatments
SPECIFICATIONS

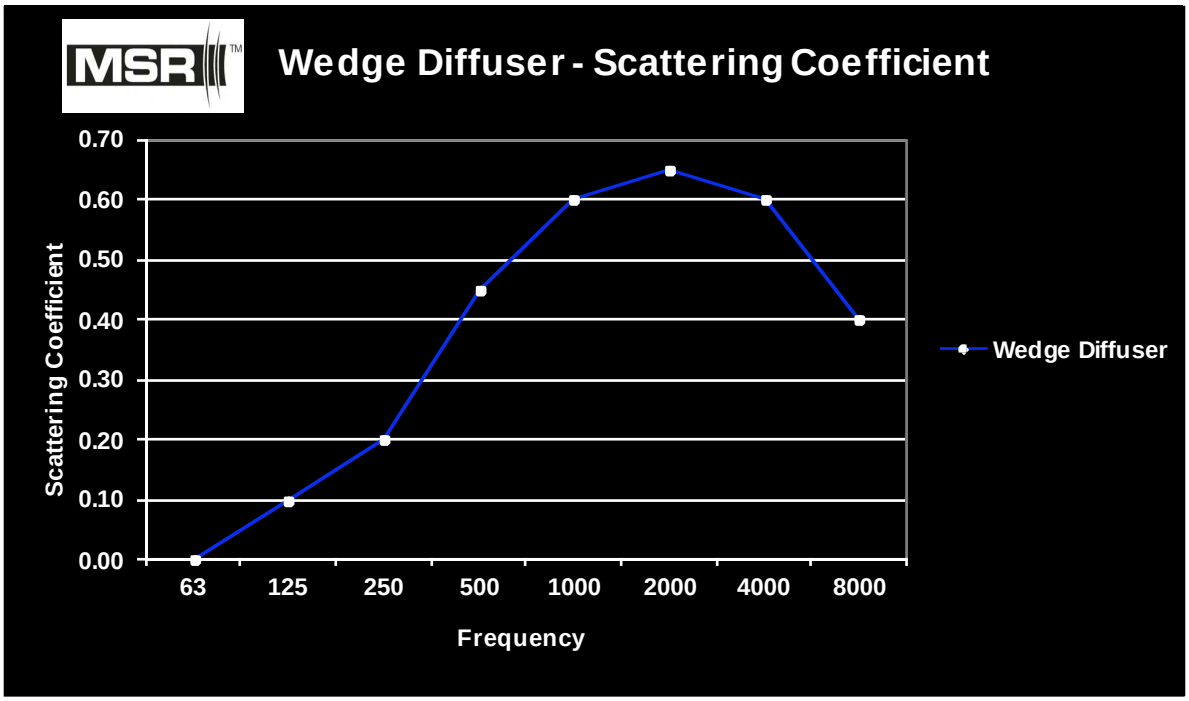
Absorber Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Wedge Absorber	0.05	0.60	1.00	1.30	1.35	1.35	1.20	1.00



Scattering Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Wedge Diffuser	0.00	0.10	0.20	0.45	0.60	0.65	0.60	0.40



Project™ Acoustical Treatments
SPECIFICATIONS

Absorber Coefficient

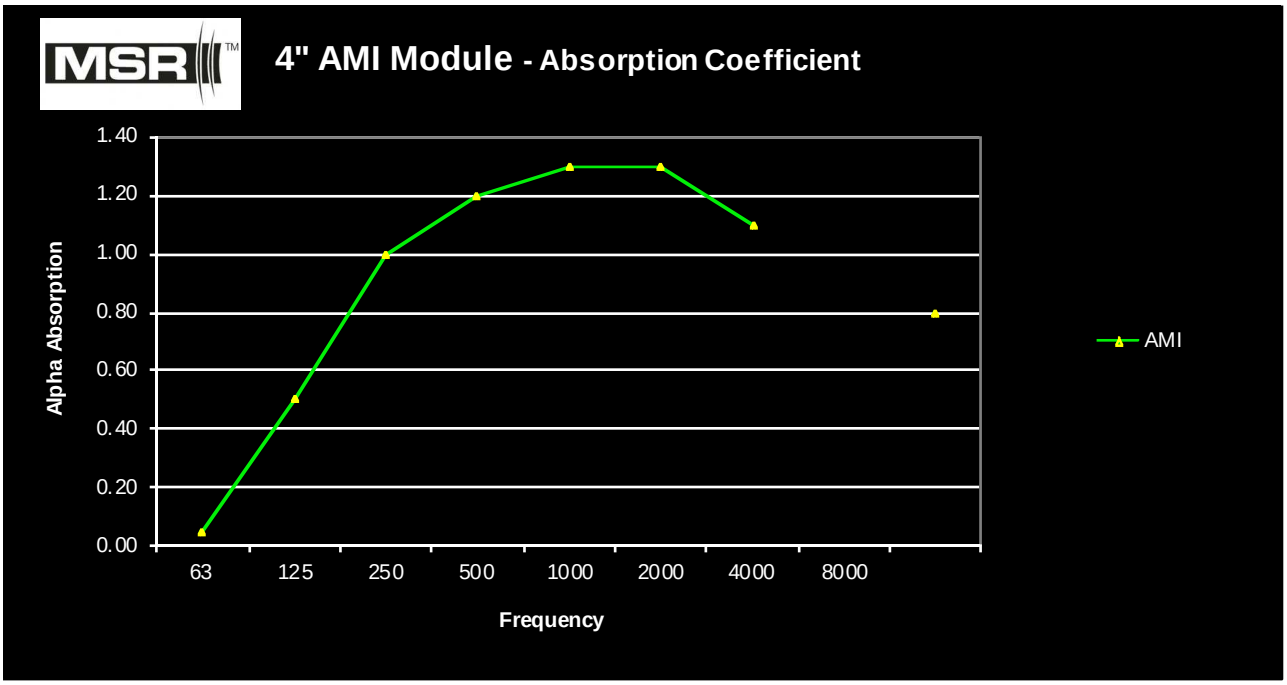
Frequency (Hz)	63	125	250	500	1000	2000	4000	6300
Wedge Bazorber	0.04	0.55	0.41	0.29	0.34	0.54	0.78	0.99

ZSound™ Acoustic Treatments

SPECIFICATIONS

Absorption Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000		8000
AMI	0.05	0.50	1.00	1.20	1.30	1.30	1.10		0.80



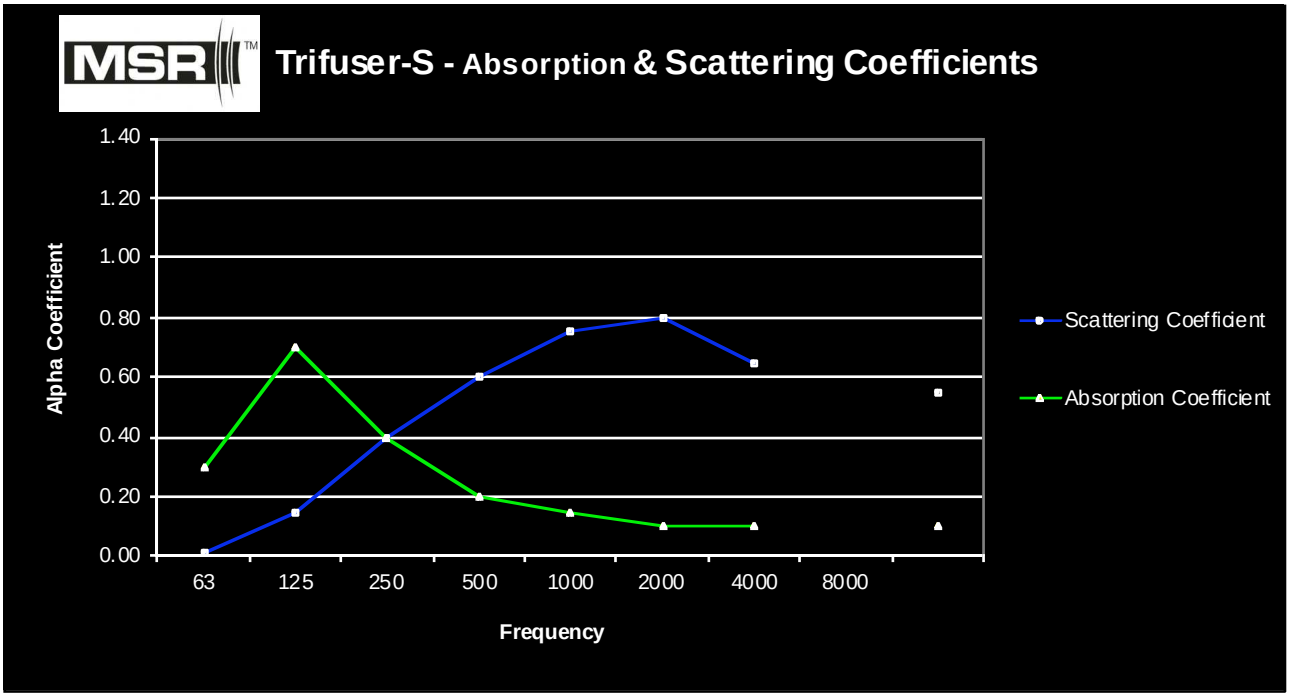
ZSound™ Acoustic Treatments
SPECIFICATIONS

Scattering Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000		8000
Trifuser-S	0.01	0.15	0.40	0.60	0.75	0.80	0.65		0.55

Absorption Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000		8000
Trifuser-S	0.30	0.70	0.40	0.20	0.15	0.10	0.10		0.10



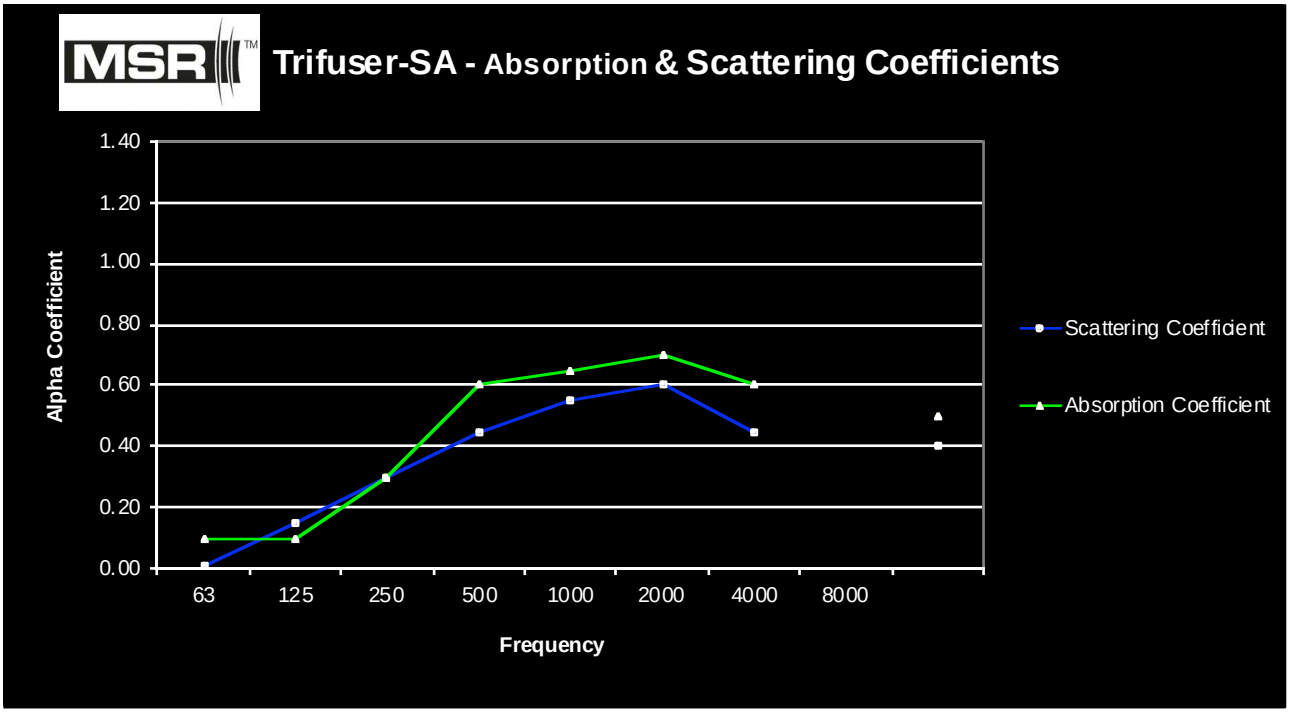
ZSound™ Acoustic Treatments
SPECIFICATIONS

Scattering Coefficient

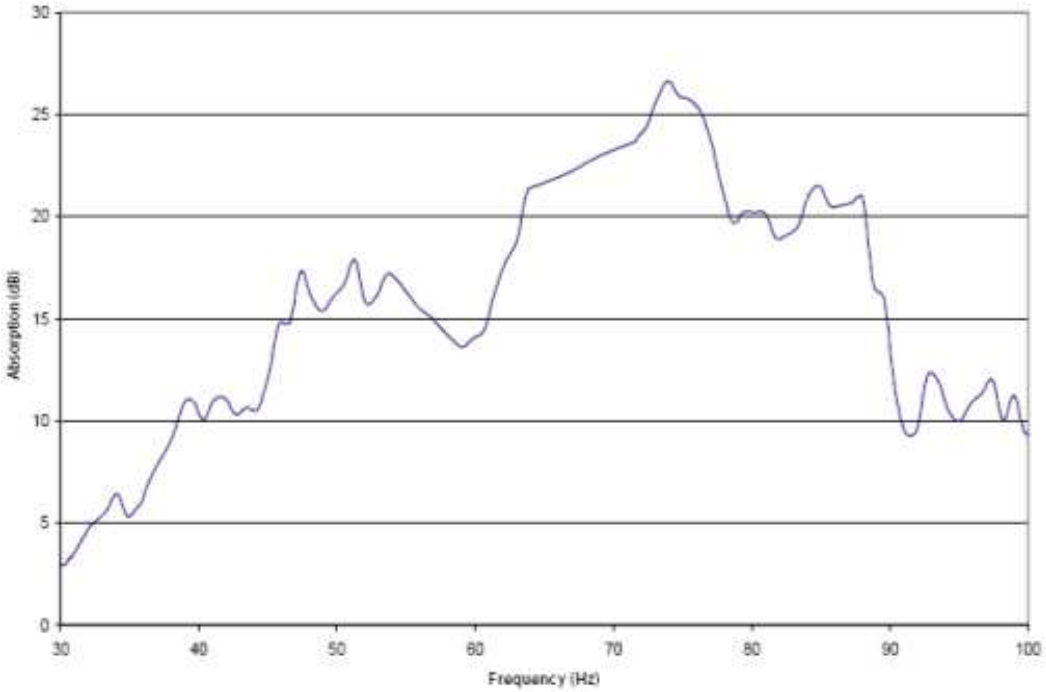
Frequency (Hz)	63	125	250	500	1000	2000	4000		8000
Trifuser-SA	0.01	0.15	0.30	0.45	0.55	0.60	0.45		0.40

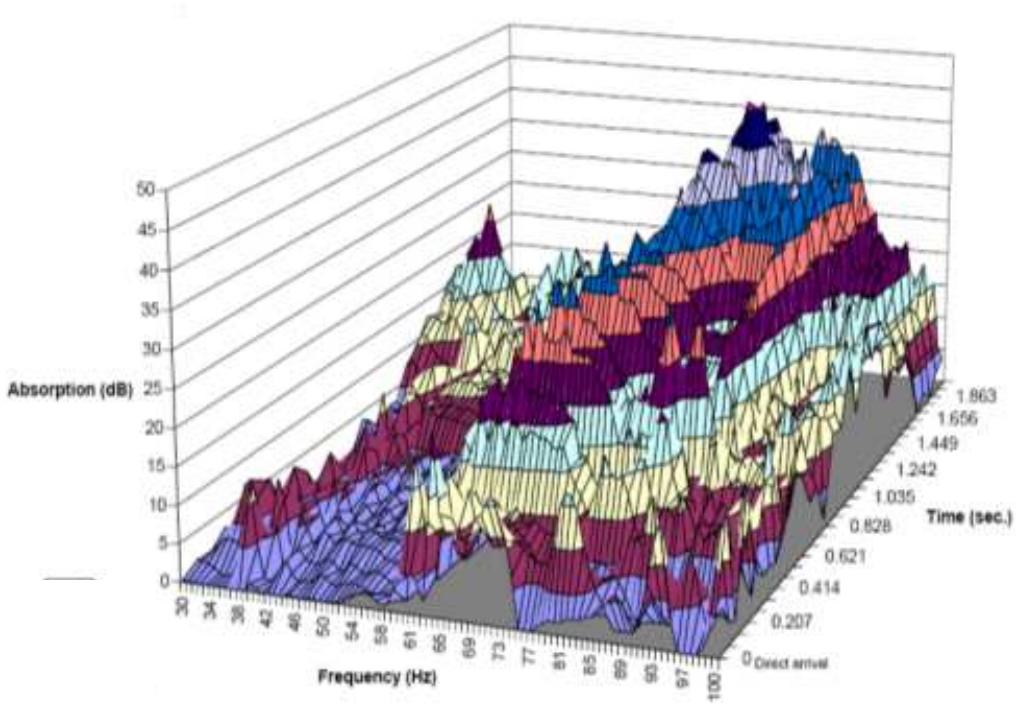
Absorption Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000		8000
Trifuser-SA	0.10	0.10	0.30	0.60	0.65	0.70	0.60		0.50



SpringTrap™ Acoustic Treatments
SPECIFICATIONS





Living Sound™ Acoustic Treatments
SPECIFICATIONS

Absorption Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
2" Rockwool	0.10	0.51	1.01	1.24	1.25	1.16	1.10	1.00