

Introduction

This document outlines the absorption and scattering coefficients of the various modules of the Dimension4 line of acoustical tuning systems.

Alpha and NRC - What do they mean?

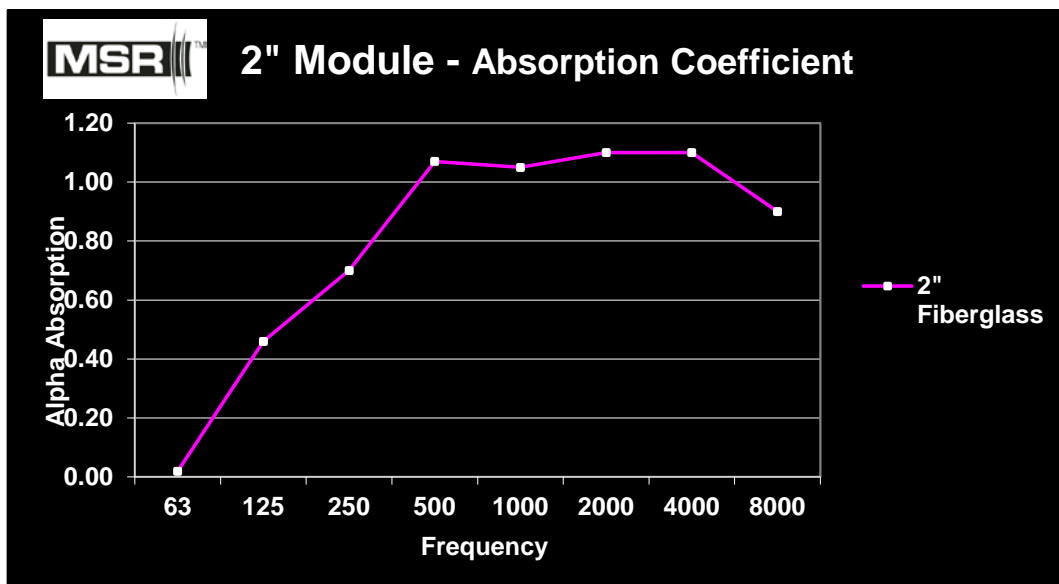
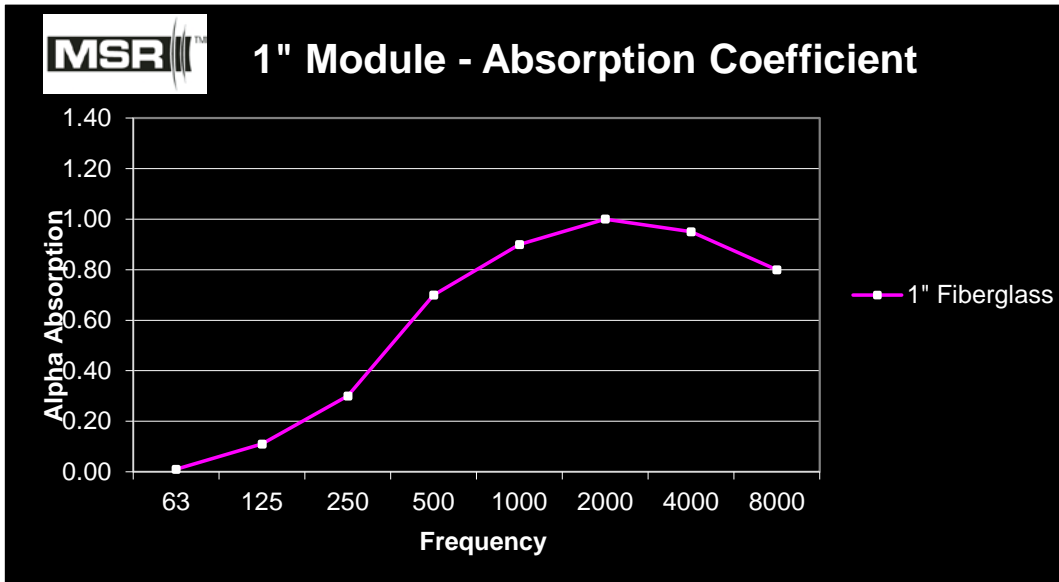
Absorption devices are defined by a coefficient called Alpha. The higher the Alpha coefficient, the better the absorption character of the acoustical module. Alpha is specified in octave bands from 63Hz to 8kHz, and one would want as high a number as possible across all the bands of frequencies. An average number, across the four middle bands from 250Hz to 2kHz is known 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.

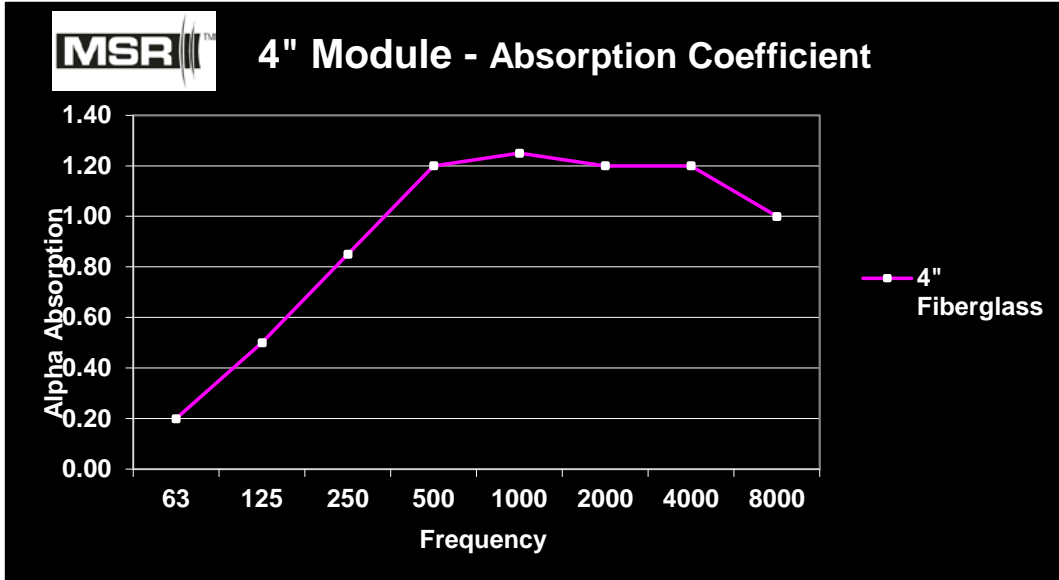
Sonata™ Acoustic Treatments SPECIFICATIONS

Absorber Coefficient

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
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



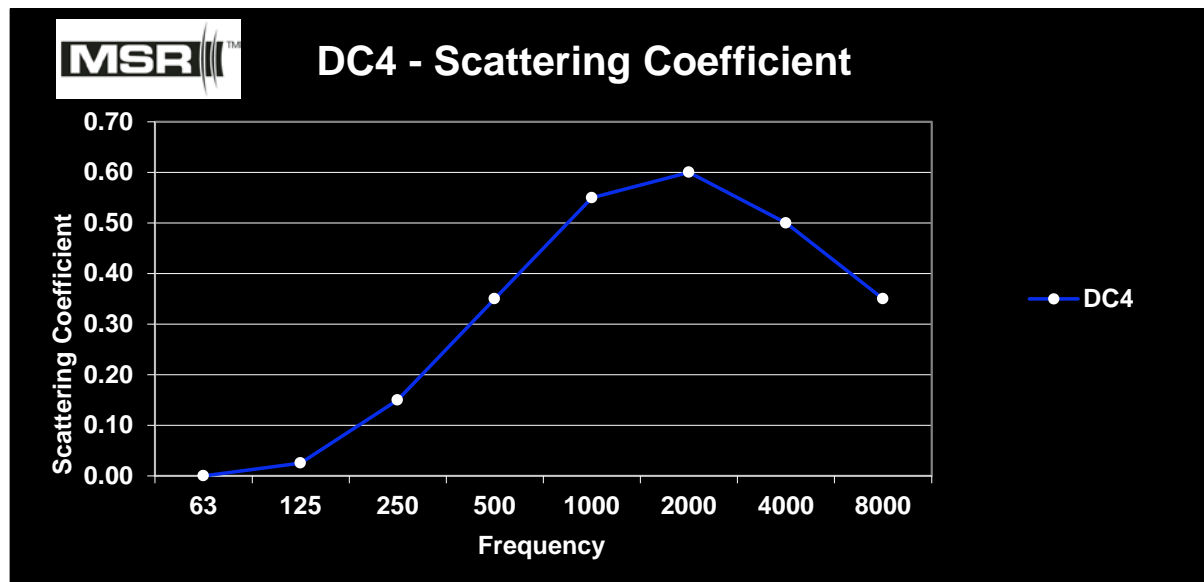
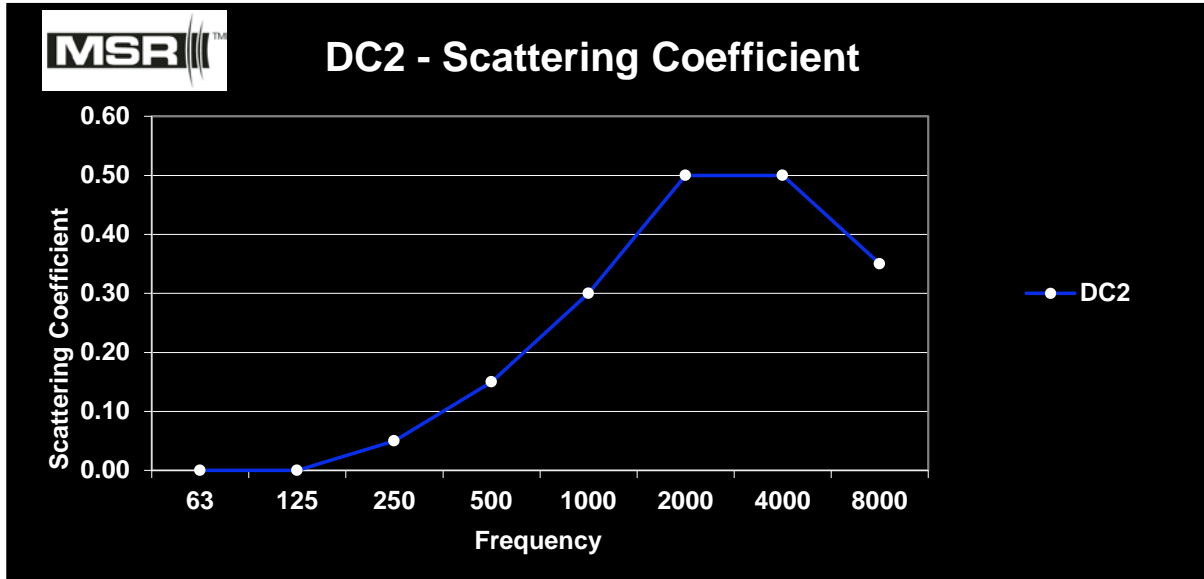
Sonata™ Acoustic Treatments SPECIFICATIONS



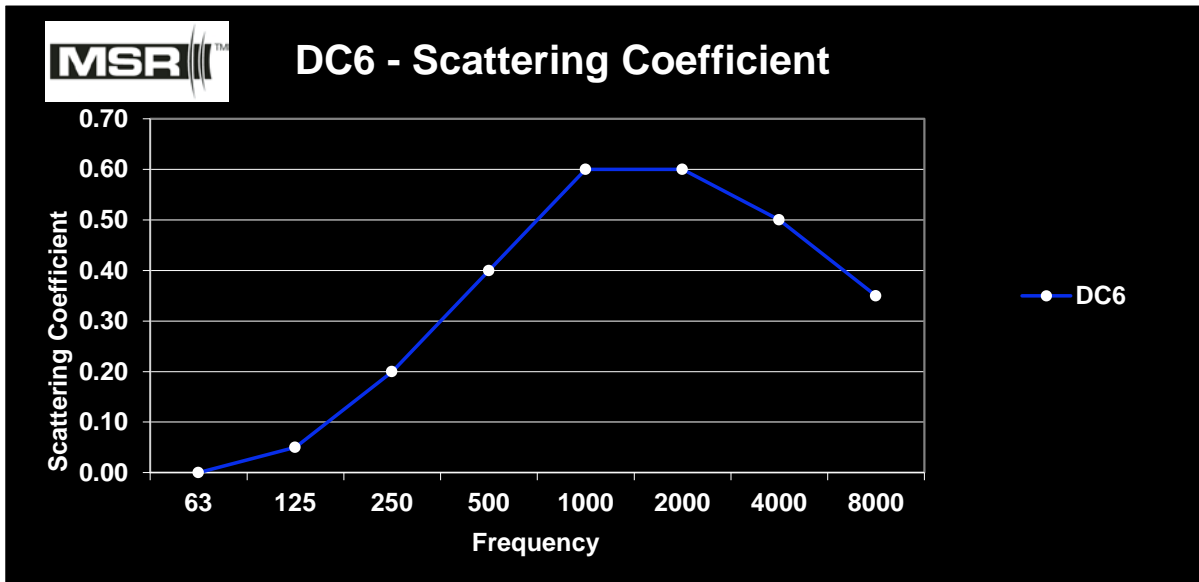
Sonata™ Acoustic Treatments SPECIFICATIONS

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



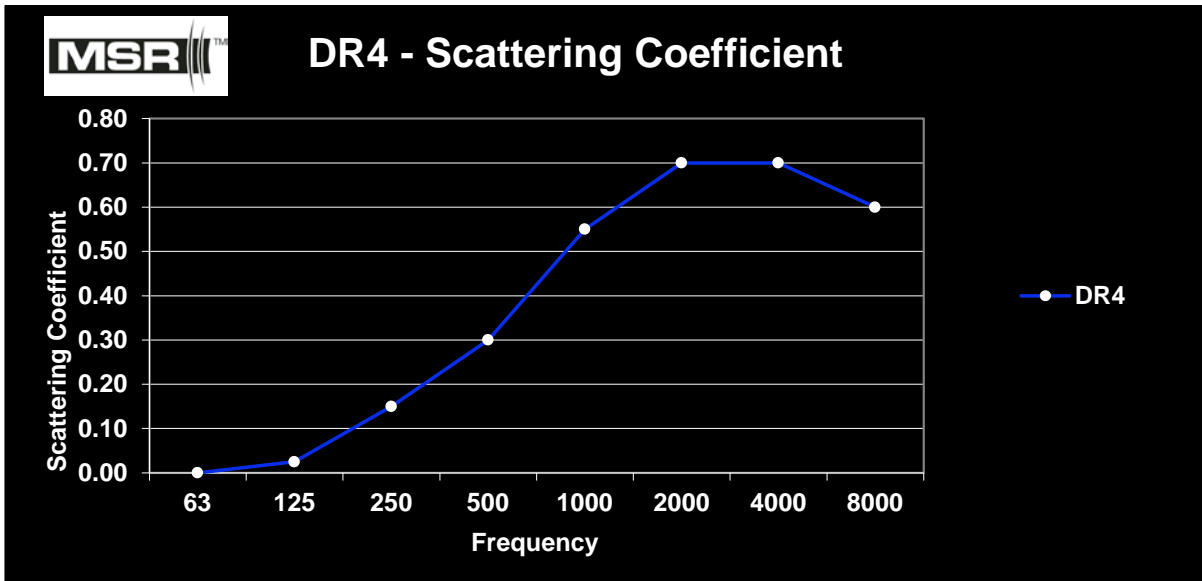
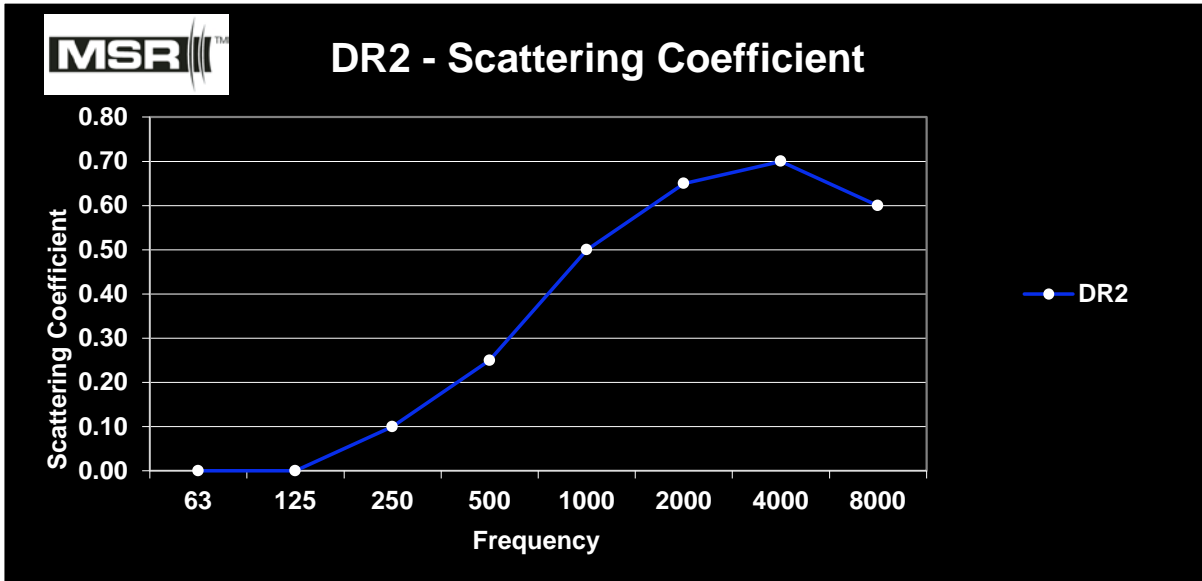
Sonata™ Acoustic Treatments SPECIFICATIONS



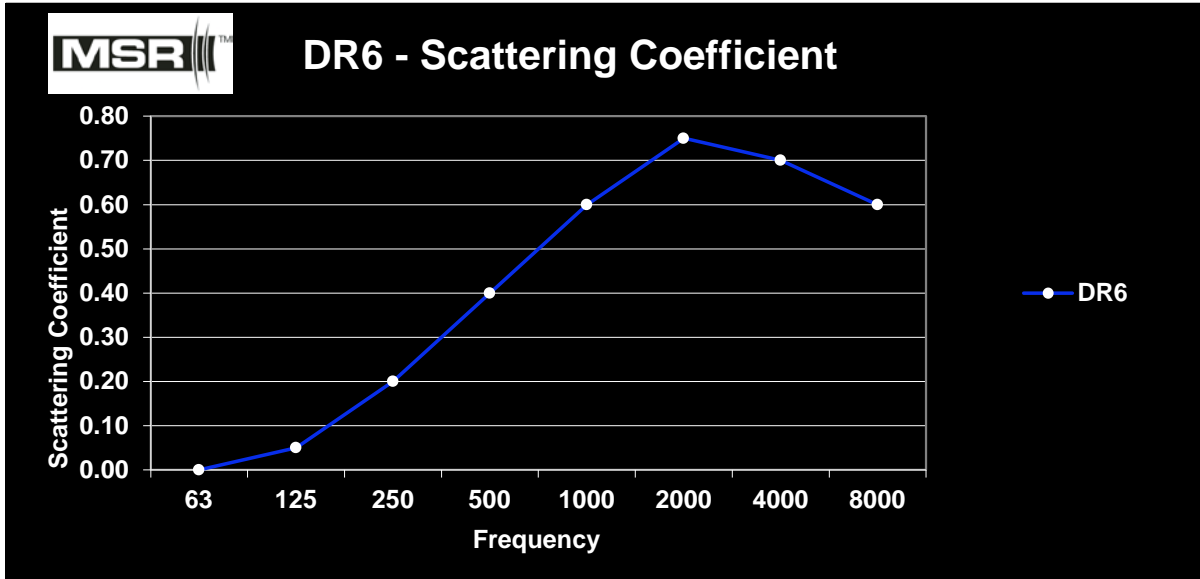
Sonata™ Acoustic Treatments SPECIFICATIONS

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



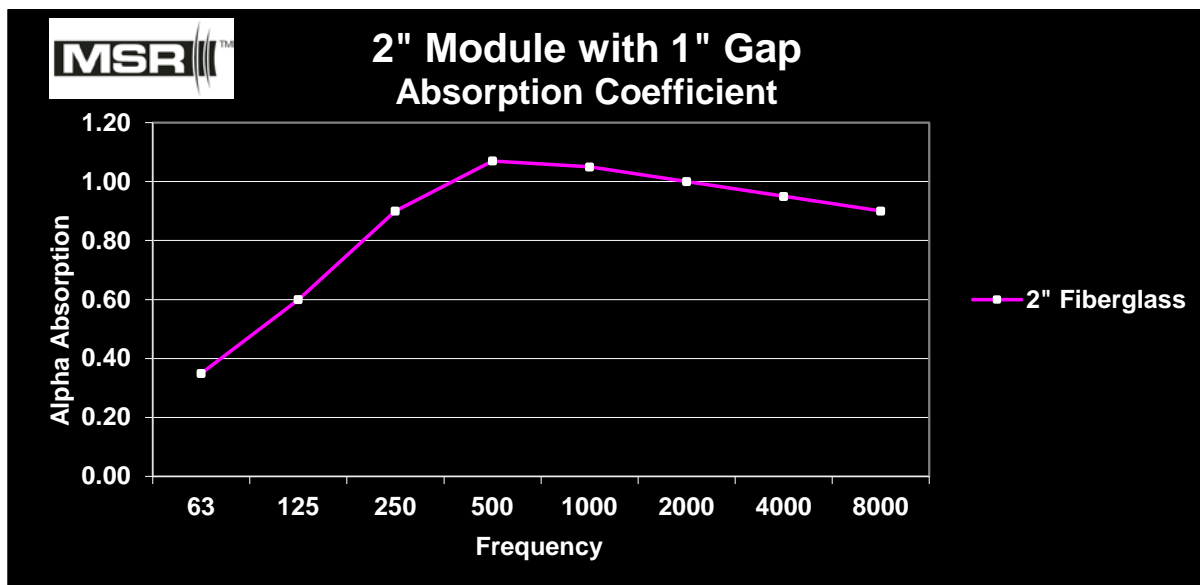
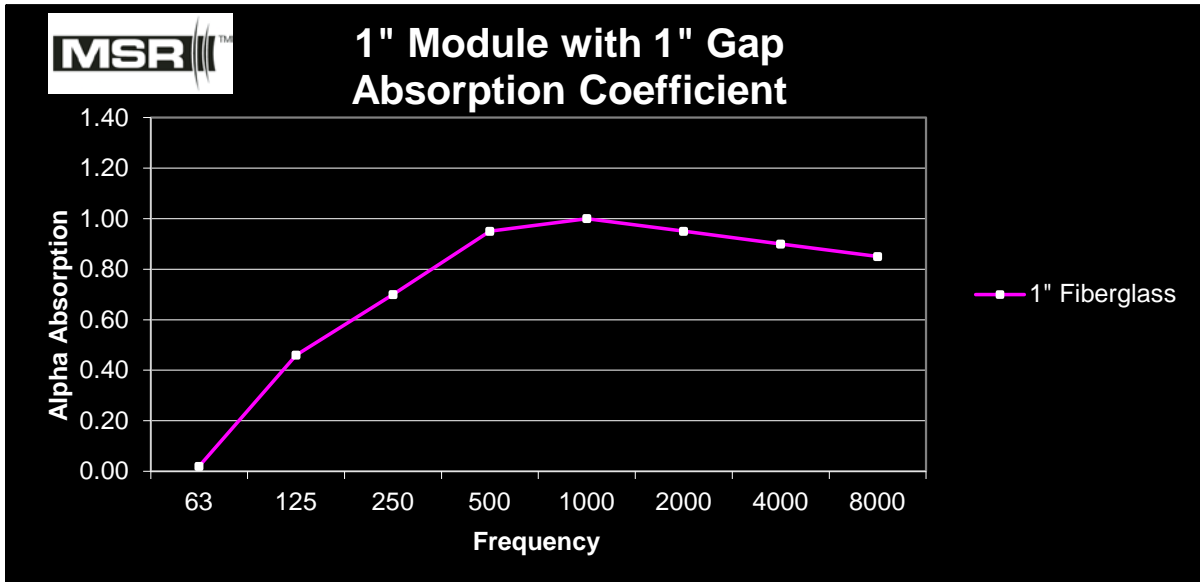
Sonata™ Acoustic Treatments SPECIFICATIONS



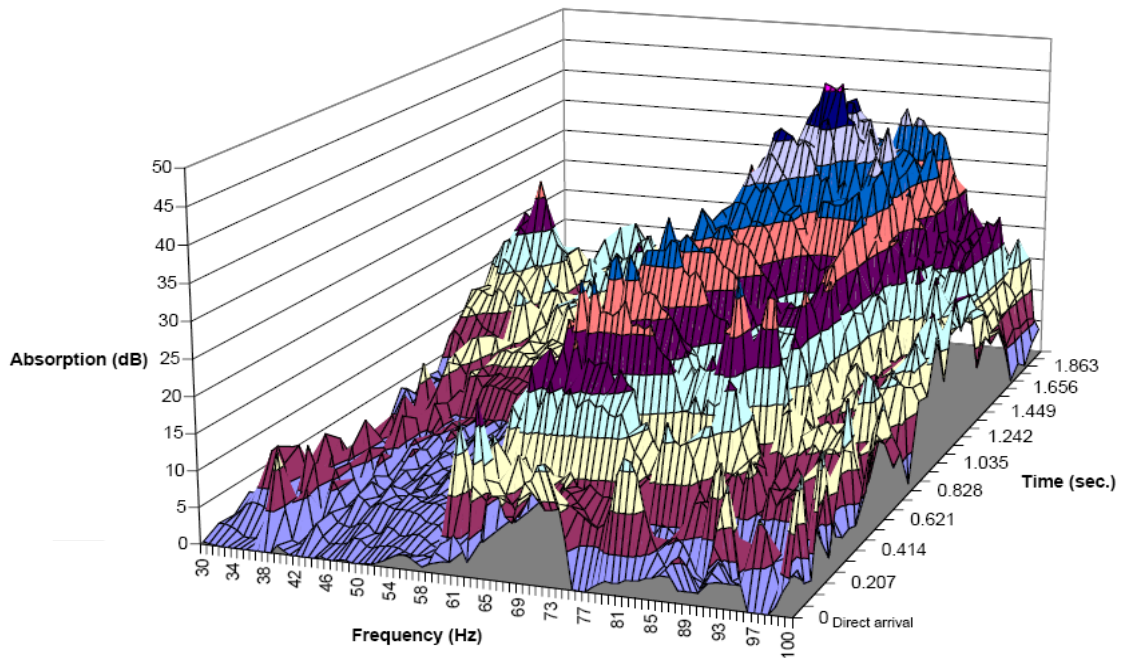
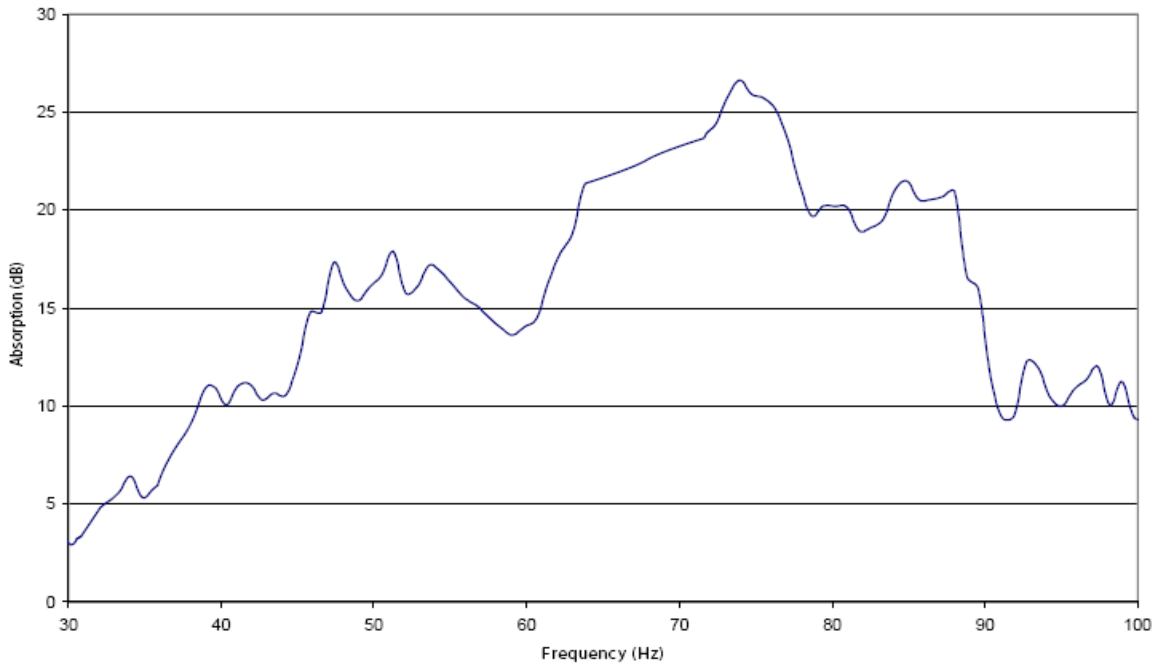
Sonata™ Clouds SPECIFICATIONS

Absorber Coefficients - For panels installed with 1" Gap

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
1" Fiberglass	0.02	0.46	0.70	0.95	1.00	0.95	0.90	0.85
2" Fiberglass	0.35	0.60	0.90	1.07	1.07	1.00	0.95	0.90



SpringTrap™ Acoustic Treatments SPECIFICATIONS



Living Sound™ Acoustic Treatments SPECIFICATIONS

Absorption Coefficient

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

