

## Acoustical Data

The acoustical data represented here is the octave band data from the acoustical test reports. For the complete acoustical tests reports, please contact Pyrok Inc.

Note: When comparing acoustical data of different products it is important to note the mounting of the acoustical specimen as well as how the exposed edges are treated in the laboratory. The data reported here is the most conservative as the edges of the test samples have been sealed with a metal or wooden frame. In this manner there is no edge absorption. Edge absorption artificially inflates a product's acoustical value in the laboratory and this value is not representative of the field applied material. Some products have been tested with only duct tape on the edges of the acoustical samples instead of wood or metal frames. It is estimated that that acoustical data obtained in this manner is 10% - 20% higher than if the data were obtained with metal or wood frame negating edge absorption of the test specimen.

### StarSilent Smooth Finish System is hard applied to a smooth finish.

Sound Absorption Coefficients							
Octave Board Center Frequencies (Hertz)							
Test Description	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
StarSilent smooth plaster with 25mm StarSilent board with 16 inch air gap (E 400 mounting) 1, 2, 3	.55	.44	.61	.86	1.08	.94	.85
StarSilent smooth plaster with 15mm StarSilent board with 16 inch air gap (E 400 mounting) 1, 2	.61	.60	.52	.53	.58	.58	.55
StarSilent smooth plaster with 10mm StarSilent board with 16 inch air gap (E 400 mounting) 1, 2	.29	.69	.68	.74	.63	.45	.70

1. Higher acoustical absorption values can be achieved by placing 20 inch acoustical insulation above the StarSilent system. Contact Pyrok Inc. for this test data.
2. Contact Pyrok Inc. for acoustical test data for air gaps of 3/8 inch and 7/8 inch between the StarSilent panels and wall or ceiling substrate.
3. Contact Pyrok Inc. for acoustical data for direct mounting (no air gap) to substrate for the 25 mm Starsilent system.

### StarSilent Superfine Finish System is spray applied to a lightly textured finish that looks smooth at distances greater than 18 feet.

Sound Absorption Coefficients							
Octave Board Center Frequencies (Hertz)							
Test Description	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
StarSilent superfine sprayed finishover 25mm StarSilent board with 16 inch air gap (E 400 mounting) 1	.45	.34	.69	1.08	1.00	1.05	.80
StarSilent superfine sprayed finish over 10mm StarSilent board with 16 inch air gap (E 400 mounting) 1	.65	.79	.58	.68	.86	.86	.70

1. Higher acoustical absorption values can be achieved by placing acoustical insulation above the StarSilent system. Contact Pyrok Inc. for additional data.