

Absorption Measurements

For the absorption measurements, we first measured T20 reverberation times in a 1700 ft³ studio space without any Ribbonwave absorber-diffusers or other sound absorbers present. Reverberation times were averaged across 16 receiver positions in the room. Next, we measured the reverberation times again with (2) 4x4 Ribbonwave modules placed in the room. Based on the measured difference in reverberation times, a standard Sabine calculation was used to calculate the total absorption (in Sabins) of the (2) modules, and the result was divided by 2 to determine the sound absorption per module. Finally, reverberation times were measured with (4) 1" thick polyster boards (each roughly 2x4) placed in the room. This is the same quantity of polyster absorption material employed in the (2) Ribbonwave modules. Results are shown in the chart below:

