

1st October 2024

Toni Micheli
c/o Let's Party Karaoke Bar
Sun Street
Hitchin

Data relating to the effectiveness of the curtain barrier installed to the outside of the premises with regard to attenuating music noise from within the premises.

Toni Michelli requested that I conduct a test that demonstrates the effectiveness of the above curtain barrier. This data is not part of a more detailed report, nor is it conducted under ideal conditions, nor for significant duration, but it was carried out with calibrated Class 1 equipment in a duly diligent fashion.

Date of test: 01.10.24
Time of test: 07.53
Equipment: Nti Audio XL2-TA s/n A2A-09184-E0 with MA220 ½" Mic s/n 5167

Noise level of test. Spatial average inside the premises	91.7	dB LAeq 1min BB	Same 1m section of a dance track with no live singing
2m from the premises façade with door closed, but no curtains in place	59.1	dB LAeq 1min BB	Same 1m section of a dance track with no live singing
2m from the premises façade with door closed and curtains in place	52.9*	dB LAeq 1 min BB	Same 1m section of a dance track with no live singing
Residual noise, with significant momentary noise sources paused out	45.1	dB LAeq 1 min BB	Same 1m section of a dance track with no live singing
Corrected outside noise level	52.1*	dB LAeq 1 min BB	52.9dB – 45.1dB

These results indicate that the shop façade attenuates the sound by $(91.7-59.1) = 32.6\text{dB}$ Broadband
These results indicate that the curtain barrier further attenuates by $(59.1 - 52.1) = 7\text{dB}$ Broadband

I have recommended that this data should not be used in isolation, but could be incorporated into a professionally prepared noise management plan when combined with other mitigating measures.

Ross Sharples
AMIOA