

Appendix 5.3

Noise Rating Curve Assessment – Tower of Light - Proposed Habitable Rooms (Remaining Facades)

Frequency, Hz	Noise Source Spectrum	Attenuation of Glazing - 6/16/8.8	Resultant Internal Noise Level, dB	NR25	A-Weighted Internal Noise Level, dB(A)
63 Hz	65.1	19	46.1	55.2	19.9
125 Hz	57.8	25	32.8	43.8	16.7
250 Hz	58.1	27	31.1	35.3	22.5
500 Hz	56.2	38	18.2	28.7	15.0
1 kHz	54.7	45	9.7	25.0	9.7
2 kHz	48.8	47	1.8	21.9	3.0
4 kHz	39.1	55	0.0	19.5	1.0
Overall Internal Noise Level, $L_{Aeq, T}$					17.2

