

Appendix 7.3

Predicted Noise Level from Stadium (Sport Activity)

Project: Kai Tak Development
Title: Predicted Noise level from Stadium (Sports Activity)

Main Stadium

Spectator Area, m² 56975
Area Correction, dB(A) 48
Measured SPL, dB(A) ⁽¹⁾ 73
Sound Power Level, dB(A) 121

NSR	Distance	Correction, dB(A)			Noise level at NSR, dB(A)
		Distance	Screening ⁽²⁾	Façade	
PN48	356	-59	-10	3	55
PN52	290	-57	-10	3	56
PN65 (façade facing to Stadium Complex)	310	-58	-10	3	56

Secondary Stadium

Spectator Area, m² 3120
Area Correction, dB(A) 35
Measured SPL, dB(A) ⁽¹⁾ 73
Sound Power Level, dB(A) 108

NSR	Distance	Correction, dB(A)			Noise level at NSR, dB(A)
		Distance	Screening	Façade	
PN48	231	-55	0	3	56
PN52	279	-57	0	3	54
PN65 (façade facing to Stadium Complex)	517	-62	0	3	49

Total Noise Level from Stadium Complex

NSR	Total Noise Level, Leq
PN48	58
PN52	58
PN65 (façade facing to Stadium Complex)	57

Overall Noise Level for Fixed Plant Noise

NSR	Noise Level, Leq (30mins)		Overall Noise Level
	Other Fixed Plant	Stadium	
PN48	N/A	58	58
PN52	56	58	60
PN65 (façade facing to Stadium Complex)	N/A	57	57

Notes:

- (1) Noise data was made reference to approved Main Arena of the 2008 Olympic Equestrian Event EIA report.
(2) -10dB(A) for noise reduction of retractable roof.