

Project: Tung Chung New Town Extension
Project no.: 219844-70
Tilte: Predicted Sound Pressure Level from Operation of the Facility and PA system (Sports Ground / Complex & Sports Center at site G0-1)

Sound Power Level from Operation of the Facility and PA System

Spectator	Measured SPL [1] dB(A)	Dimensions		Spectator Area m ²	Area Correction dB(A)	SWL dB(A)
		L m	W m			
NW	73	150	10	1450	32	105
SE	73	87	10	690	28	101

Predicted SPL at NSRs

NSR	Assessment Point	Spectator	SWL dB(A)	Distance	Dimensions		Conformal Area		Correction				
					L	W	Area	Correction	Facade	Directivity ^[2]	SPL	Daytime Criteria	Compliance
				m	m	m	m ²	dB(A)	dB(A)	dB(A)	dB(A)	dB(A) ^[3]	(Y/N)
F1-2	F1-2-03	NW	105	90	150	10	97584	50	3	-5	53		
		SE	101	265	87	10	522597	57	3	0	47		
Predicted Total SPL dB(A)											54	55	Y
C2-2	C2-2-03	NW	105	110	150	10	132752	51	3	-10	46		
		SE	101	145	87	10	177071	52	3	0	52		
Predicted Total SPL dB(A)											53	55	Y

Note:
[1] Noise data was made reference to approved Main Arena of the 2008 Olympic Equestrian Event EIA Report.
[2] Directivity correction of 5dB(A) is applied when the spectator is at more than 90 degree from the NSR; 10dB(A) is applied when the spectator is completely not facing the NSR.
[3] Only day time criteria is assessed as the worst case scenario. For the night time criteria, noise impact assessment should be conducted in detail design stage.