

Preliminary Noise Survey at , 'Guardian Angel Secondary School' Hamrun

The survey is to assess the Road Traffic noise level in the School footprint, especially in the sensitive areas; indicated on the map: slide 2

Method

The Specific noise level was measured at the locations indicated on the map. The noise measurements duration varies between 09 to 12 minutes. If an in-depth survey is required, the measured time at each location would be of 60 minutes. Furthermore, since the traffic is continuously flowing during the school hours, it was not possible to measure the background noise w/o the specific noise. The option is to measure the back ground noise during the night. Apart from these exceptions, the noise was measured as recommended by the BS 8233:2014

WHO: Daytime recommendations

To protect the students the sound level from steady, continuous noise should not exceed 35/45 dB LAeq inside classrooms and 55 dB LAeq in the School play grounds, or 2 meters from the classroom façade.

Noise level readings summary:

Noise Measured outside		Noise Source Road Traffic	Time		Test duration	Noise Level in dB(A)			Surveyor's comments
						L _{Aeq, T}	L _{A, 90 T}	L _{A, Max, fast}	
A	Classrooms	Specific	13:14	13:23	09:00 min	50.4	48.7	58.10	44 metre from boundary wall. Thick vegetation protection. L _{Aeq} <input checked="" type="checkbox"/>
B		Specific	13:02	13:11	09:00 min	61.5	60.3	65.50	40 metre from boundary wall. Medium vegetation protection. L _{Aeq} <input checked="" type="checkbox"/> > 10 dB(A)
C		Specific	12:21	12:31	10:00 min	62.74	60.7	72.30	28 metre from boundary wall. Sparse vegetation protection. L _{Aeq} <input checked="" type="checkbox"/> >12 dB(A)
D		Specific	12:36	12:46	10:00 min	64.19	62.3	70.00	21 metre from boundary wall. No vegetation protection. L _{Aeq} <input checked="" type="checkbox"/> >15 dB(A)
Noise Measured inside		Noise Source Road Traffic	Time		Test duration	Noise Level in dB(A)			Surveyor's comments
						L _{Aeq, T}	L _{A, 90 T}	L _{A, Max, fast}	
F	Window Closed	Specific	13:24	13:36	12:00 min	41.6	39.4	53.7	50 metre from boundary wall. Thick vegetation protection. L _{Aeq} <input checked="" type="checkbox"/> <> 2 dB(A)
F	Window open	Specific	13:50	14:01	11:00 min	62.0	58.6	75.5	50 metre from boundary wall. Thick vegetation protection. L _{Aeq} <input checked="" type="checkbox"/> > 17 dB(A)
PG	Play Ground	Specific	12:48	13:00	12:00 min	61.34	59.4	63.9	40 metre from boundary wall. Medium vegetation protection. L _{Aeq} <input checked="" type="checkbox"/> > 10 dB(A)

World Health Organisation Guidelines for Day time outside facades

Criteria	Guideline values	Measured values	Status
Equivalent noise level	< 50 dB L _{Aeq,16hr}	50.4./64.2	<input checked="" type="checkbox"/>
Peak level	< 60 dB L _{Amax, fast}	52.5/75.5	<input checked="" type="checkbox"/>