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Greener Properties

Assessment of noise impact for proposed residential redevelopment above the Priory Café, Priory St, LL11 1SU

Prepared for :-

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1.0 SUMMARY

The main source of noise during the day was the road traffic from Hill Street, with the sound of seagulls also noticeable. During the late evening and night time, the overall levels remained fairly constant as the sounds of the Friday and Saturday night town centre activity built up.

There was no audible music noise from surrounding venues.

A partly open window should be sufficient to achieve BS8233 criteria for at least “reasonable” conditions and on the borderline of criteria for “desirable” conditions. The WHO-type criteria for the L_{Amax} levels will only be met if windows are closed.

With closed windows, basic double glazing and non-acoustic vents (open) all criteria should easily be met.





A R Raymond

P J Durell

2.0 INTRODUCTION

ADC was asked to carry out an independent assessment of the above site with regards to its suitability for residential development from a noise perspective.

This report begins by summarising assessment standards and, where appropriate, discusses alternative interpretations.

After a brief statement of survey details we discuss basic results and the resulting assessment, along with any mitigation which might be implied. We sum-up and conclude at the end, along with brief recommendations.

3.0 ASSESSMENT STANDARDS

3.1 Technical Advice Note (Wales), Noise

This document provides general advice on how to minimise the impact of noise without placing unreasonable restrictions on development or adding unduly to the costs and administrative burdens of business.

Development Control

The following extracts are from TAN 11:-

Development Control

Noise generating development

8. Local planning authorities must ensure that noise generating development does not cause an unacceptable degree of disturbance. They should also bear in mind that if subsequent intensification or change of use results in greater intrusion, consideration should be given to the use of appropriate conditions.

9. Noise characteristics and levels can vary substantially according to their source and the type of activity involved. In the case of industrial development, for example, the character of the noise should be taken into account as well as its level. Sudden impulses, irregular noise or noise which contains a distinguishable continuous tone will require special consideration. In addition to noise from aircraft landing and taking off, noise from aerodromes is likely to result from engine testing as well as ground movements. The impact of noise from sport, recreation and entertainment will depend to a large extent on frequency of use and the design of facilities. Advice on assessing noise and on factors to consider in relation to the major noise sources including roads, railways, airports, industrial and recreational noise and their measurement is given in Annex B.

Noise-sensitive development

10. Local planning authorities should consider whether proposals for new noise-sensitive development would be incompatible with existing activities, taking into account the likely level of noise exposure at the time of the application and any increase that may reasonably be expected in the foreseeable future. Such development should not normally be permitted in areas which are, or are expected to become, subject to unacceptably high levels of noise and should not normally be permitted where high levels of noise will continue throughout the night.

For Residential Development, TAN 11 sets out Noise Exposure Categories (NECs) in Annex A as follows:-

TABLE 1: NOISE EXPOSURE CATEGORIES	
A	Noise need not be considered as a determining factor in granting planning permission, although the noise level at the high end of the category should not be regarded as desirable.
B	Noise should be taken into account when determining planning applications and, where appropriate, conditions imposed to ensure an adequate level of protection.
C	Planning permission should not normally be granted. Where it is considered that permission should be given, for example, because there are no alternative quieter sites available, conditions should be imposed to ensure a commensurate level of protection against noise.
D	Planning permission should normally be refused.

Table 2: RECOMMENDED NOISE EXPOSURE CATEGORIES FOR NEW DWELLINGS NEAR EXISTING NOISE SOURCES

Noise Levels[1] corresponding to the Noise Exposure Categories for New Dwellings $L_{Aeq,T}$dB

Noise Source		Noise Exposure Category			
		A	**B**	**C**	**D**
road traffic	0700-2300	<55	55-63	63-72	>72
	2300-0700[2]	<45	45-57	57-66	>66
rail traffic	0700-2300	<55	55-66	66-74	>74
	2300-0700[2]	<45	45-59	59-66	>66
air traffic[3]	0700-2300	<57	57-66	66-72	>72
	2300-0700[2]	<48	48-57	57-66	>66
mixed sources[4]	0700-2300	<55	55-63	63-72	>72
	2300-0700[2]	<45	45-57	57-66	>66

Notes

[1] ***Noise levels:*** *the noise level(s) ($L_{Aeq,T}$) used when deciding the NEC of a site should be representatives of typical conditions.*

[2] ***Night-time noise levels (2300-0700):*** *sites where individual noise events regularly exceed 82dBL_{Amax} (S time weighting) several times in any hour should be treated as being in NEC C, regardless of the $L_{Aeq,8H}$ (except where the $L_{Aeq,8H}$ already puts the site in NEC D).*

[3] ***Aircraft noise:*** *daytime values accord with the contour values adopted by the Department of Transport which relate to levels measured 1.2m above open ground. For the same amount of noise energy, contour values can be up to 2 dB(A) higher than those of other sources because of ground reflection effects.*

[4] ***Mixed sources:*** *this refers to any combination of road, rail, air and industrial noise sources. The "mixed source" values are based on the lowest numerical values of the single source limits in the table. The "mixed source" NECs should only be used where no individual noise source is dominant.*

To check if any individual noise source is dominant (for the purposes of this assessment) the noise level from the individual sources should be determined and then combined by decibel addition (remembering first to subtract 2 dB(A) from any aircraft noise contour values). If the level of any one source then lies within 2 dB(A) of the calculated combined value, that source should be taken as the dominant one and the site assessed against the appropriate NEC for that source, rather than using the "mixed source" NECs. If the dominant source is industrial noise see paragraph B17 of Annex B.

If the contribution of the individual noise sources to the overall noise level cannot be determined by measurement and/or calculation, then the overall measured level should be used and the site assessed against the NECs for "mixed sources".

The document emphasises that the NECs are to be used for noise-sensitive development such as dwellings, not noise-producing development such as industrial and commercial.

3.2 BS8233 and WHO

BS 8233 was updated in March 2014. Quantitatively, however, the design criteria are little changed – just expressed differently to reduce ambiguity in certain situations.

The criteria in Table 4 of BS 8233 are based on WHO guidance and give the desirable criteria for indoor ambient noise levels for dwellings as follows:-

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living room	35 dB $L_{Aeq,16hour}$	-
Dining	Dining room/area	40 dB $L_{Aeq,16hour}$	-
Sleeping (daytime resting)	Bedroom	35 dB $L_{Aeq,8hour}$	30 dB $L_{Aeq,8hour}$

Note that the standard accepts the widely used rule of thumb that, for a partly open window, the levels just outside will be 15dB higher than those just inside. This brings us to an external equivalent of the above table, as follows:-

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living room	50 dB $L_{Aeq,16hour}$	-
Dining	Dining room/area	55 dB $L_{Aeq,16hour}$	-
Sleeping (daytime resting)	Bedroom	50 dB $L_{Aeq,8hour}$	45 dB $L_{Aeq,8hour}$

It goes on to state that, where necessary, the criteria can be relaxed by up to 5 dB and still achieve reasonable conditions.

Note that this version of BS 8233 does not explicitly state criteria for bedroom noise in terms of dB L_{Amax} but the WHO Guidelines for Community Noise (or similar) are widely used with a recommendation that the noise inside bedrooms should not typically exceed 45 dB L_{Amax}, for instance no more than 10 to 15 times a night.

Garden area criteria are 50 dB L_{Aeq} and 55 dB L_{Aeq} being considered desirable and reasonable respectively.

Note that the new version of BS8233 more explicitly specifies the assessment periods as 16 hour and 8 hour for daytime and night time respectively.

3.3 Local Authority

We have been issued with a copy of draft planning conditions. Draft condition 3 reads as follows:-

3. No part of the development shall commence until a noise survey has been carried out, and a detailed report of the survey findings has been submitted to, and approved in writing by, the Local Planning Authority. The noise survey shall determine noise levels for both Day (07:00 - 23:00 hours) and Night (23:00 - 07:00 hours), having regard to Planning Policy Wales (PPW) Guidance, Technical Advice Note (TAN) 11 - Noise. The report of the noise survey findings shall include:
a) Noise levels arising from day / night time activities in the vicinity of the proposed development site and the impact upon the existing or proposed accommodation, and
b) A detailed scheme of noise insulation and / or attenuation measures so designed to safeguard the amenity of the existing or occupants of the proposed accommodation hereby approved.
The measures as are approved shall be fully implemented prior to the first occupation of any unit of residential accommodation approved and shall be retained thereafter for the lifetime of the development.

Draft condition 4 also refers to noise but this is essentially a Building Regulations requirement and is dealt with via our Part E assessment report.

4.0 GUIDE TO MODELLING

Full details of calculations are given in Appendix 2. The basic approach is as follows.

1. The external noise break-in is based on the level of external noise just outside the façade(s), the area of the façade(s), the sound insulation properties of the façade(s) and the internal absorption of the room.

2. The first input to the calculation process is the area of the exposed façade. Where more than one façade is exposed, then they can all be entered. The room depth is also entered so as to derive the room volume. Where the room is not a straight forward rectangular shape, an “effective depth” is sometimes entered so as to derive the approximate room volume. Judgement may occasionally be used if the room is not simple, such as a very unusual shape or a multi-use room such as a through-kitchen/dining room/living room, or studio-style area.

3. The reverberation time (RT) is entered. Usually this is a standardised 0.5 seconds and represents the absorption properties of the room.

4. Two corrections result from the above inputs. Firstly, we have the Area Correction. Put simply, the greater the exposed area, the more noise will break in. The correction is 10 x log(Effective Area) and is usually a positive number. Note that the “Effective Area” takes account of the method of modelling vents – see later. The Room Correction takes account of the room absorption (more absorption reduces the noise) and the room volume (a larger volume disperses,

and so reduces, the noise). The correction is 10 x log(RT/0.163/Volume) and is usually a negative number.

5. These corrections, together with the sound insulation properties of the façade(s) give us the basic outside-to-inside level difference. The sound insulation properties of the façade(s), known as the Sound Reduction Index (SRI or just R) are effectively the sound insulation of $1m^2$ of material (apart from vents – see later). Of course, a façade is usually made up of more than one element – windows and walls for instance. The overall SRI or R is referred to as the Composite SRI or composite R and is related to the SRI or R or the individual elements and their respective areas. SRI or R figures are usually based on laboratory tests and therefore somewhat idealised.

6. An additional complication is that performance data for vents is generally standardised to $10m^2$. The area of a vent is therefore usually entered as $10m^2$, even though its actual area will usually be nowhere near that much.

7. So, the composite SRI or R, combined with the areas and room corrections gives us the basic level difference to be expected under perfect (laboratory) conditions. However, actual site conditions are affected by workmanship, which can never be guaranteed to be perfect, and flanking paths (noise paths other than straight through the façade(s)). We add a 3 dB allowance for this.

8. Finally we have to enter any differences between the measurement position and the façade being modelled. If the measurements were made in free field conditions, then a façade effect of up to +3 dB is necessary.

9. The process is repeated in octave bands across the frequency range to derive the predicted internal levels.

5.0 SURVEY DETAILS

5.1 Site Times and Personnel

The measurements were carried out by Mark Pickering of ADC Acoustics.

Measurements were carried out on 5th July 2024 between approximately 16:00 hours and 17:00 hours to represent rush hour and between 19:00 hours and 05:30 hours the following day and also 6th July 2024 between approximately 18:00 hours through to 08:00 on 8th July 2024, representing what was likely to be a noisier and quietest time of night.

5.2 Instrumentation

Instrumentation used was a Rion NL-52 Class I sound level meter which current a calibration certificate and which was field-calibrated as necessary with no drift noted. The meter weas set up to measure continuous 5 minute samples in terms of dB L_{eq}, dB L_{max} and dB L_{90} in

overall A-weighted terms, and in octave bands across the frequency range. See Definition of Acoustic Terms in Appendix 1.

5.3 Measurement Positions

The main measurement positions were as shown on the following plan with a yellow star.



The microphone was 1 m above the parapet of the TSB building. It was the most exposed position as it had a view of the busier parts of the immediate area. The rooms overlooking the front were briefly inspected but these were far more sheltered, open plan, and with poor condition windows to the front and back.

5.4 Survey Conditions

We have no reason to believe that the conditions we found on the survey were anything other than representative of normal conditions. The venue to the rear, however, was not operating and locals who we spoke to advised that it was not often open. We also understand that the applicant owns the building and that the lease is due to run out shortly. We are unable to comment further on this.

Weather conditions were as follows :-

Rain	:	none, dry roads, apart from the Saturday morning when measurement were abandoned due to unexpected heavy rain.
Cloud	:	0 to 100%
Temperature	:	11 to 17 Celsius
Wind	:	Negligible

6.0 RESULTS AND DISCUSSIONS

The main source of noise during the day was the road traffic from Hill Street, with the sound of seagulls also noticeable. During the late evening and night time, the overall levels remained fairly constant as the sounds of the Friday and Saturday night town centre activity built up.

From within the apartment an intermittent thudding noise was also audible during the day. Upon investigation, this was identified as a manual potato presser in the café directly below the proposed site. It was screwed to the wall and transferring noise directly to the floors above. It is not referred to further in this assessment as it should be straightforward to control at the development stages and is covered in the sound insulation assessments.

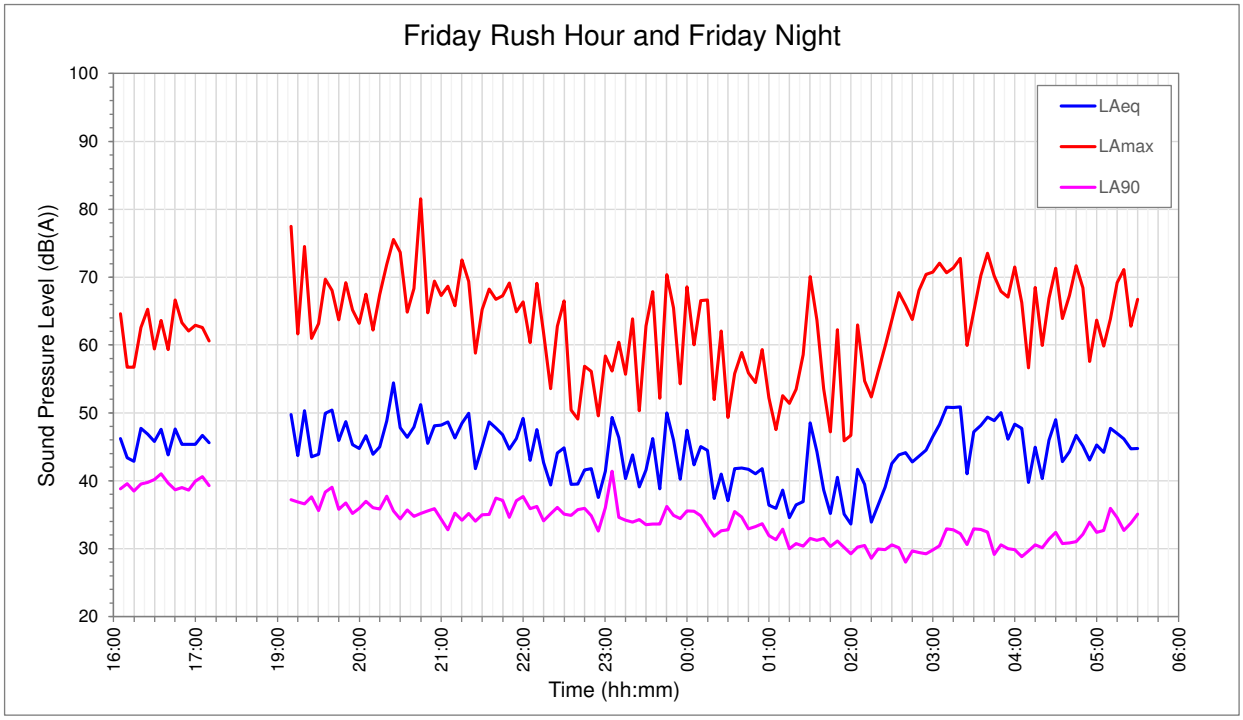


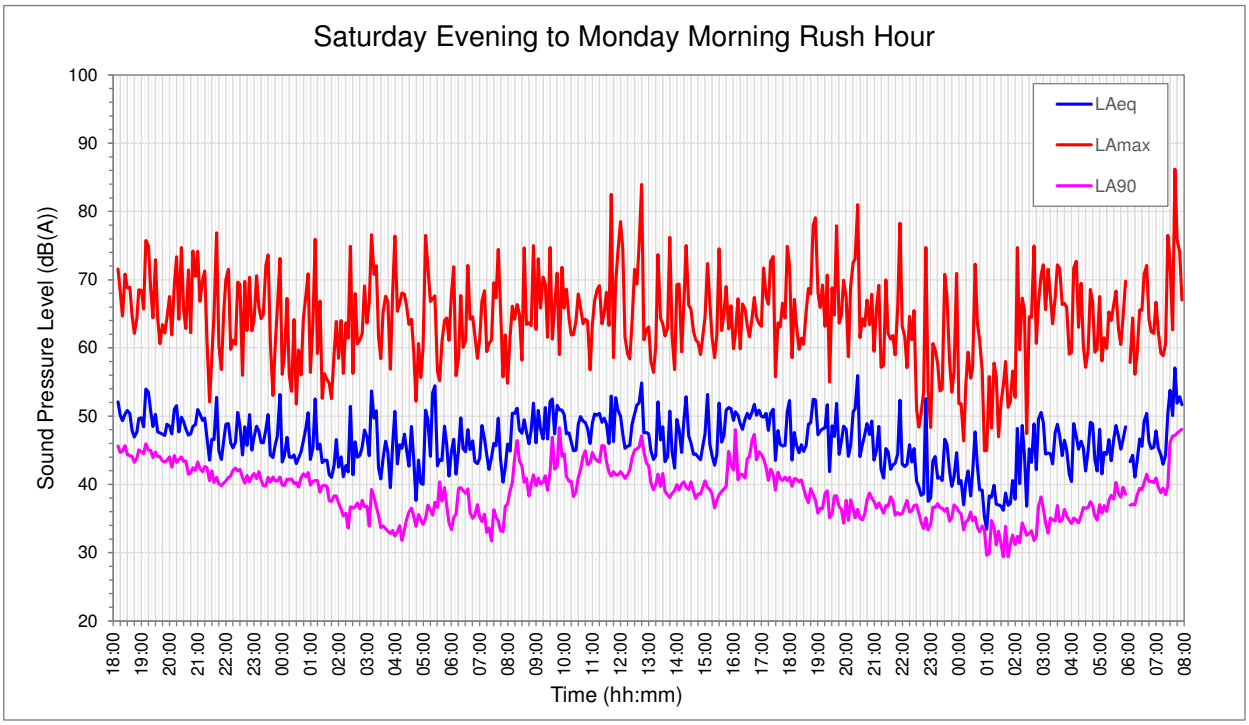
There was also a fairly small extract fan which was audible at first floor level during opening hours, but by no means excessive. This fan was in very poor condition and needs servicing, which should reduce noise levels significantly. Otherwise, there was no perceptible noise from the café or its mechanical equipment.

Note that there was no audible music noise from surrounding venues.

6.1 Basic Results

Full details are given in Appendix 2. They can be viewed graphically over time as follows:-





A summary of overall levels is as follows:-

Friday Rush Hour and Friday Night

Time Period	*Index*	***dB(A)***
Overall Rush Hour	Leq	**46**
	Lmax	**63**
	L90	**40**
Overall Evening	Leq	**47**
	Lmax	**70**
	L90	**36**
Overall Night Time	Leq	**45**
	Lmax	**66**
	L90	**33**

Saturday Evening to Monday Morning Rush Hour

Time Period	*Index*	***dB(A)***
Overall Daytime	Leq	**49**
	Lmax	**71**
	L90	**43**
Overall Evening	Leq	**48**
	Lmax	**70**
	L90	**41**
Overall Night Time	Leq	**46**
	Lmax	**67**
	L90	**37**

We can see that the Saturday to Monday levels are a little higher than the Friday afternoon and night levels and so these have been used in the following assessments.

6.2 Assessments

The above results give the following assessments.

In terms of TAN 11, the levels suggest that the site would fall well below the levels for NEC A for daytime and evening and right in the middle of NEC B for night time (traffic and/or mixed sources).

So, based on NEC A for daytime and evening (ie. living rooms) TAN 11 recommends that, *"Noise need not be a determining factor in granting planning permission…"*. And based on NEC B for night time (ie. bedrooms),TAN 11 recommends, *"Noise should be taken into account when determining planning applications and, where appropriate, conditions imposed to ensure an adequate level of protection"*.

In terms of BS 8233/WHO, the measured levels appear to suggest that sound insulation will need to be designed to control external noise break-in as follows:

Position	*Environment*	*Reductions for BS8233 desirable* criteria*	*Reductions for WHO-Type Criteria*
Main	Living Rooms	14 dB L_{Aeq}	-
	Bedrooms	16 dB L_{Aeq}	22 dB L_{Amax}

Note that these figures do not include any façade effect which might be applicable

* BS 8233 considers a 5 dB relaxation would still provide *reasonable* conditions

6.3 Mitigation

A partly open window can be expected to provide about 15 dB reduction. This will be sufficient to achieve BS8233 criteria for at least “reasonable” conditions and on the borderline of criteria for “desirable” conditions.

The WHO-type criteria for the L_{Amax} levels will only be met if windows are closed. This implies that ventilation will be required such that occupants have the realistic option of keeping windows shut. This can be achieved using active or passive ventilation which provides a suitable sound insulation. This could take the form of ventilation through acoustic or non-acoustic vents or a whole house-type system which does not require any wall or window vents.

Note that this assessment provides the specification for the acoustic performance of vents. Ventilation needs should be determined by others.

A summary of mitigation (or building elements assumed in our calculations) is as follows:-

Façade	*Room Type*	*Make-Up on Which Calculations are Based*
Front Façade	eg. Apt 2 Living Room	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
	eg. Apt 3 Bedroom	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
Front Façade Extension	eg. Apt 12 Studio	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
	eg. Apt 4 Bedroom	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
Rear Façade	eg. Apt 4 Living Room	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
	eg. Apt 4 Bedroom	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300

NB. R_w should come with a negative C_{tr} term, usually around -5 dB, eg. 35 dB R_w and -5 dB C_{tr} is 30 dB R_w+C_{tr}

The rooms in the above table are used as worst case examples as they are exposed on two facades and/or have larger window areas and/or shorter room depths. Other rooms on the same façade with the same glazing and vent specification can be expected to perform better

Note that the table provides the acoustic specifications (such as R_w for windows and $D_{n,e,w}$ for vents) to meet appropriate criteria. The glazing build-ups and vent models which are also shown are examples and many other options achieving the same acoustic performance are available.

Full calculation details are shown in Appendix 2 and a summary of predicted internal noise levels is as follows:-

Façade	*Room Type*	*Time*	*Index*	***dB(A)***
Front Façade	eg. Apt 2 Living Room	Rush	Leq	**28**
	eg. Apt 3 Bedroom	Night	Leq	**27**
			Lmax	**47**
Front Façade Extension	eg. Apt 12 Studio	Rush	Leq	**28**
		Night	Leq	**20**
			Lmax	**40**
Rear Façade	eg. Apt 4 Living Room	Rush	Leq	**28**
	eg. Apt 4 Bedroom	Night	Leq	**20**
			Lmax	**40**

We can see that predicted levels are within all criteria.

Of course, these assessments are very robust as they use what are likely to be the noisier times of day and night, assume all facades have a unrestricted lines of sight to the main sources and that the development itself will not provide any screening to its own properties.

7.0 CONCLUSIONS/RECOMMENDATIONS

A partly open window should be sufficient to achieve BS8233 criteria for at least “reasonable” conditions and on the borderline of criteria for “desirable” conditions. The WHO-type criteria for the L_{Amax} levels will only be met if windows are closed.

With closed windows, basic double glazing and non-acoustic vents (open) all criteria should easily be met.

If windows need to be assumed closed, then you should discuss with Planners their expectations regarding ventilation. We would encourage Officers to contact us directly if they have any queries.

Appendix 1

Definition of Acoustic Terms

The Decibel

The decibel is the basic unit of noise measurement and is denoted dB. Technically, it is a means of expressing the difference in noise level between the measured noise and a standard level of noise. Most often the threshold of human hearing is used as the standard reference but is really should be stated. The threshold of human hearing is a sound pressure of 20μPa or a sound power of 1pW.

A sound pressure level or SPL should be expressed in dB(re. 20μPa). A sound power level or SWL should be expressed in dB(re. 1pW). If the reference levels are omitted, it will often (but not always) be safe to assume that they are referenced to the threshold of human hearing.

A-Weighting and dB(A)

The human hearing system responds differently to different frequencies. The A-weighting system takes account of this by emphasising mid and high frequencies more than low frequencies to given an overall level. An A-Weighted noise level, therefore, reflects the way normal, healthy hearing would perceive the overall level of the noise. The basic unit is dB(A), although other systems of expressing an A-weighted level are discussed below.

Other weighting systems, such as C-Weighting, denoted dB(C), reflect the human hearing system's response at higher noise levels.

Equivalent Continuous Sound Level, L_{eq}

This is a kind of mean noise level.

The unit is dB L_{eq}. For A-weighted levels the unit is dB(A) L_{eq} or, in more modern units, dB L_{Aeq}. The Noise at Work Regulations use $L_{eq(s)}$ which refers to a sample level.

Maximum Level, L_{max}

This is the maximum level reached (usually for a fraction of a second) in the measurement period.

The unit is dB L_{max}. For A-weighted levels the unit is dB(A) L_{max} or, in more modern units, dB L_{Amax}.

Statistical (Percentile) Levels, L_n

During a measurement of fluctuating noise, it is often useful to establish the levels exceed for a percentage of the time. L_n is the index representing the level exceeded for n% of the measurement period.

The unit is dB L_n. For A-weighted levels, the unit is dB(A) L_n or, in more modern units, dB L_{An}.

Common examples are as follows :-

dB L_{A90} is the A-weighted level exceeded for 90% of the time and is often used to describe the underlying background noise.

dB L_{A50} is the A-weighted level exceed for 50% of the time. Mathematically, it is the median, another kind of average.

dB L_{A10} is the A-weighted level exceeded for 10% of the time and has traditionally been used to describe the intermittent highs in the noise climate such as passing cars or aircraft.

Frequency Analysis

Here the audible frequency range is divided up into bands and the noise level is expressed in each frequency band form low pitches to high pitches.

Octave Band analysis is where the frequency range is divided into 8 bands from 63 Hz to 8kHz, or sometimes into 10 bands from 31.5 Hz to 16kHz.

1/3 Octave Band analysis provides more detailed subdivision into 24 bands from 50 Hz to 10kHz, or sometimes into 30 bands from 20Hz to 20kHz.

Narrow Band analysis takes this further with the possibility of many thousands of bands, possibly only 1Hz wide, or even less.

In all types of frequency analysis, the level in each band can be expressed in terms of L_{eq}, L_{max}, L_n, etc. as defined above.

Appendix 2

Measurement and Calculation Details

Friday Rush Hour and Friday Night

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
16:05	Leq	**46**	60	55	46	42	42	35	28	18
	Lmax	**65**	77	76	64	59	58	53	49	35
	L90	**39**	52	44	40	35	35	27	18	13
16:10	Leq	**43**	59	49	44	39	39	32	24	16
	Lmax	**57**	74	61	55	53	52	46	40	38
	L90	**40**	53	45	41	36	35	28	20	13
16:15	Leq	**43**	60	51	44	38	38	31	24	16
	Lmax	**57**	74	66	61	50	48	46	40	31
	L90	**38**	53	45	40	35	34	27	18	13
16:20	Leq	**48**	61	52	47	42	44	40	31	21
	Lmax	**63**	74	68	60	56	59	55	49	45
	L90	**40**	52	44	40	36	36	28	20	13
16:25	Leq	**47**	59	52	46	41	43	38	31	19
	Lmax	**65**	74	68	61	62	62	56	49	42
	L90	**40**	52	45	40	36	36	29	21	13
16:30	Leq	**46**	59	49	43	39	43	37	30	17
	Lmax	**59**	73	63	52	50	54	53	51	40
	L90	**40**	52	45	40	36	37	29	20	13
16:35	Leq	**48**	63	54	46	41	44	38	33	22
	Lmax	**64**	84	71	60	58	58	52	51	38
	L90	**41**	54	46	41	37	37	30	22	14
16:40	Leq	**44**	61	51	44	38	39	33	26	17
	Lmax	**59**	75	69	57	49	54	51	47	39
	L90	**40**	52	46	40	36	36	28	19	13
16:45	Leq	**48**	59	51	46	41	44	39	34	24
	Lmax	**67**	73	68	62	56	63	61	55	49
	L90	**39**	52	44	40	35	35	28	19	13
16:50	Leq	**45**	60	49	43	38	41	39	32	25
	Lmax	**63**	75	68	58	52	53	59	55	52
	L90	**39**	51	44	40	35	36	28	19	13
16:55	Leq	**45**	60	54	46	39	41	35	29	17
	Lmax	**62**	77	74	64	54	53	51	50	40
	L90	**39**	51	44	39	35	35	28	19	13
17:00	Leq	**45**	61	54	47	40	40	34	26	15
	Lmax	**63**	76	72	69	53	52	47	41	35
	L90	**40**	51	44	40	36	37	29	19	13
17:05	Leq	**47**	60	49	43	41	43	40	31	23
	Lmax	**63**	74	61	52	57	59	57	47	47
	L90	**41**	51	44	40	36	38	30	21	13
17:10	Leq	**46**	59	48	41	37	43	36	31	15
	Lmax	**61**	71	60	48	42	59	51	49	34
	L90	**39**	49	42	38	35	36	29	19	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
19:10	Leq	**50**	61	56	50	45	44	42	38	27
	Lmax	**78**	83	76	74	76	72	70	64	56
	L90	**37**	49	42	38	32	34	27	19	13
19:15	Leq	**44**	60	52	43	37	39	33	31	16
	Lmax	**62**	78	72	61	53	56	50	52	37
	L90	**37**	50	44	38	32	32	26	20	13
19:20	Leq	**50**	57	52	43	37	49	42	36	17
	Lmax	**75**	73	74	60	52	73	68	58	36
	L90	**37**	50	42	36	31	33	27	23	13
19:25	Leq	**44**	61	53	44	38	38	32	27	15
	Lmax	**61**	75	73	62	54	53	50	44	29
	L90	**38**	51	44	39	34	32	27	23	13
19:30	Leq	**44**	58	54	43	37	40	33	27	15
	Lmax	**63**	73	75	54	49	59	54	49	32
	L90	**36**	48	42	37	32	31	25	18	13
19:35	Leq	**50**	62	58	49	40	46	42	35	18
	Lmax	**70**	83	81	69	61	62	62	55	35
	L90	**38**	50	44	40	34	34	27	19	13
19:40	Leq	**50**	59	52	44	40	47	44	40	20
	Lmax	**68**	75	70	64	53	65	61	59	40
	L90	**39**	50	43	39	33	36	30	22	13
19:45	Leq	**46**	57	54	46	39	42	36	30	15
	Lmax	**64**	73	74	60	54	60	56	51	33
	L90	**36**	48	41	37	31	32	25	18	13
19:50	Leq	**49**	64	59	52	40	43	35	29	15
	Lmax	**69**	82	81	74	62	57	51	45	35
	L90	**37**	49	41	38	33	33	26	18	13
19:55	Leq	**45**	61	54	44	36	40	37	31	18
	Lmax	**65**	78	73	62	50	61	57	53	47
	L90	**35**	49	42	38	31	30	24	16	13
20:00	Leq	**45**	58	54	45	37	40	35	31	16
	Lmax	**63**	75	70	65	48	58	55	52	35
	L90	**36**	48	41	38	32	32	24	17	13
20:05	Leq	**47**	62	52	43	36	43	40	32	15
	Lmax	**68**	80	69	52	47	63	63	54	28
	L90	**37**	51	43	38	32	33	26	18	13
20:10	Leq	**44**	57	47	41	37	40	36	31	16
	Lmax	**62**	74	66	56	49	59	55	51	33
	L90	**36**	47	41	37	32	32	26	17	13
20:15	Leq	**45**	60	56	46	38	39	34	27	15
	Lmax	**67**	78	81	70	56	57	48	43	29
	L90	**36**	49	42	38	32	31	24	16	13
20:20	Leq	**49**	61	55	48	48	44	35	27	17
	Lmax	**72**	78	76	69	72	68	56	46	36
	L90	**38**	51	43	39	33	33	28	23	13
20:25	Leq	**54**	65	61	53	54	49	39	30	18
	Lmax	**76**	82	78	70	75	72	61	50	40
	L90	**36**	49	43	38	32	29	25	21	12
20:30	Leq	**48**	57	49	43	42	45	40	35	18
	Lmax	**74**	73	70	62	63	72	66	62	43
	L90	**34**	49	41	37	30	29	23	16	13
20:35	Leq	**46**	61	51	42	40	43	38	30	16
	Lmax	**65**	79	65	57	65	59	56	49	28
	L90	**36**	49	42	38	31	31	24	15	13
20:40	Leq	**48**	62	60	50	41	40	35	31	17
	Lmax	**68**	82	82	68	59	56	56	55	43
	L90	**35**	48	41	37	30	30	23	16	13
20:45	Leq	**51**	54	46	41	37	50	41	41	23
	Lmax	**82**	69	65	54	51	81	68	72	54
	L90	**35**	47	42	38	32	30	23	16	13
20:50	Leq	**46**	56	46	42	36	43	38	33	18
	Lmax	**65**	72	56	51	49	61	60	55	38
	L90	**36**	49	41	38	31	31	25	16	13
20:55	Leq	**48**	62	49	42	35	46	40	36	20
	Lmax	**69**	84	67	53	47	66	61	62	47
	L90	**36**	48	42	38	31	32	25	17	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
21:00	Leq	**48**	55	47	42	35	44	43	37	21
	Lmax	**67**	71	65	59	53	62	63	58	43
	L90	**34**	47	40	36	29	30	23	16	13
21:05	Leq	**49**	62	60	51	41	40	38	34	18
	Lmax	**69**	79	79	72	61	57	60	57	39
	L90	**33**	46	39	36	30	27	20	14	12
21:10	Leq	**46**	57	50	42	36	44	38	33	16
	Lmax	**66**	71	65	56	53	64	57	55	34
	L90	**35**	48	41	38	31	30	24	16	12
21:15	Leq	**49**	56	48	41	36	45	43	39	20
	Lmax	**73**	73	62	52	52	64	70	63	43
	L90	**34**	48	40	36	30	29	23	16	13
21:20	Leq	**50**	59	60	55	44	40	37	30	16
	Lmax	**69**	77	81	73	64	59	56	51	41
	L90	**35**	49	41	38	31	30	23	15	13
21:25	Leq	**42**	59	50	42	35	37	30	26	15
	Lmax	**59**	75	71	58	51	51	44	45	31
	L90	**34**	48	41	37	30	28	22	14	12
21:30	Leq	**45**	59	57	48	37	37	31	26	14
	Lmax	**65**	78	78	69	57	55	44	45	31
	L90	**35**	48	42	38	31	30	23	16	13
21:35	Leq	**49**	62	63	48	38	39	33	26	15
	Lmax	**68**	78	84	65	56	51	50	41	30
	L90	**35**	50	43	37	30	30	22	15	12
21:40	Leq	**48**	65	59	50	40	40	35	28	17
	Lmax	**67**	81	77	67	59	61	57	53	39
	L90	**37**	54	45	39	33	32	25	17	13
21:45	Leq	**47**	63	58	49	42	39	34	27	17
	Lmax	**67**	80	77	69	62	58	59	54	40
	L90	**37**	51	45	40	32	32	25	17	13
21:50	Leq	**45**	61	55	45	39	39	33	26	16
	Lmax	**69**	81	79	66	62	66	53	53	42
	L90	**35**	48	41	37	31	29	23	15	12
21:55	Leq	**46**	66	57	46	40	39	33	26	15
	Lmax	**65**	87	74	62	62	55	48	41	34
	L90	**37**	51	44	39	34	32	25	17	13
22:00	Leq	**49**	64	62	50	43	40	33	27	16
	Lmax	**66**	79	80	68	60	57	49	45	32
	L90	**38**	51	43	40	35	33	25	16	13
22:05	Leq	**43**	57	51	43	38	39	33	27	15
	Lmax	**60**	70	68	64	56	54	50	43	31
	L90	**36**	50	43	39	31	31	24	15	12
22:10	Leq	**48**	59	62	46	37	36	29	22	14
	Lmax	**69**	77	85	65	53	46	41	38	31
	L90	**36**	50	45	39	31	30	23	15	12
22:15	Leq	**43**	55	52	45	38	36	30	23	13
	Lmax	**62**	70	74	65	56	54	44	35	26
	L90	**34**	47	41	37	31	29	22	14	12
22:20	Leq	**39**	54	45	40	34	35	30	26	13
	Lmax	**54**	76	53	49	46	49	42	35	21
	L90	**35**	48	41	37	30	28	28	24	12
22:25	Leq	**44**	62	56	43	35	36	33	29	14
	Lmax	**63**	81	77	61	47	48	42	44	24
	L90	**36**	47	42	37	30	29	29	26	12
22:30	Leq	**45**	58	51	42	36	41	36	33	14
	Lmax	**66**	74	70	60	51	64	57	56	31
	L90	**35**	47	41	37	31	31	22	14	12
22:35	Leq	**39**	56	46	41	35	35	28	20	13
	Lmax	**50**	69	56	54	43	44	37	34	21
	L90	**35**	49	42	38	31	30	21	13	12
22:40	Leq	**40**	55	45	41	35	35	29	19	13
	Lmax	**49**	70	54	48	45	43	38	30	22
	L90	**36**	48	42	38	32	31	23	14	12
22:45	Leq	**42**	59	48	42	37	37	31	22	14
	Lmax	**57**	70	62	56	53	53	46	40	30
	L90	**36**	50	43	39	32	31	23	15	13
22:50	Leq	**42**	58	52	45	35	35	28	20	14
	Lmax	**56**	72	65	61	52	45	39	32	25
	L90	**35**	49	43	38	31	29	21	13	12
22:55	Leq	**38**	53	45	39	33	33	26	18	13
	Lmax	**50**	68	60	50	44	42	38	32	22
	L90	**33**	46	41	36	29	26	18	12	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
23:00	Leq	**41**	61	50	42	36	35	28	19	13
	Lmax	**58**	75	68	55	52	54	48	35	29
	L90	**36**	52	46	39	31	28	21	14	12
23:05	Leq	**49**	66	59	53	43	41	37	33	22
	Lmax	**56**	75	67	57	48	47	46	41	30
	L90	**41**	62	50	43	35	34	28	20	13
23:10	Leq	**46**	65	55	49	40	39	35	30	18
	Lmax	**60**	85	69	57	49	48	45	40	27
	L90	**35**	51	43	38	30	28	20	13	12
23:15	Leq	**40**	56	49	42	36	35	28	22	14
	Lmax	**56**	69	63	61	51	47	39	37	28
	L90	**34**	50	43	37	30	28	20	13	12
23:20	Leq	**44**	57	56	46	38	35	29	21	13
	Lmax	**64**	76	75	66	63	49	45	36	23
	L90	**34**	49	43	37	29	27	20	12	12
23:25	Leq	**39**	54	47	40	34	34	28	21	13
	Lmax	**50**	69	59	47	45	44	42	36	23
	L90	**34**	49	43	37	30	28	20	12	12
23:30	Leq	**42**	56	52	45	35	36	27	18	13
	Lmax	**63**	70	70	67	50	60	48	35	26
	L90	**34**	49	42	37	29	27	20	12	12
23:35	Leq	**46**	56	59	50	37	35	29	23	15
	Lmax	**68**	72	81	72	54	57	48	44	33
	L90	**34**	48	42	37	29	27	19	12	12
23:40	Leq	**39**	55	47	41	34	33	26	18	13
	Lmax	**52**	71	64	54	45	40	34	28	22
	L90	**34**	47	41	37	29	28	19	12	12
23:45	Leq	**50**	64	64	48	43	39	36	33	26
	Lmax	**70**	85	84	68	66	60	50	48	40
	L90	**36**	48	43	37	31	30	28	24	19
23:50	Leq	**46**	58	55	49	43	37	33	28	21
	Lmax	**65**	75	76	70	62	55	47	42	32
	L90	**35**	49	42	37	31	30	22	18	14
23:55	Leq	**40**	52	47	42	36	35	29	24	17
	Lmax	**54**	67	61	54	50	51	40	33	28
	L90	**34**	46	42	37	30	29	22	16	13
00:00	Leq	**47**	59	60	50	42	38	33	28	19
	Lmax	**69**	79	82	69	65	56	51	47	32
	L90	**36**	49	43	38	31	29	26	21	16
00:05	Leq	**42**	57	52	44	36	36	32	27	19
	Lmax	**60**	75	70	64	51	54	43	37	30
	L90	**36**	46	41	37	31	30	27	22	16
00:10	Leq	**45**	59	58	45	37	37	31	25	17
	Lmax	**67**	78	80	67	57	60	46	41	29
	L90	**35**	47	42	37	30	29	24	19	15
00:15	Leq	**44**	59	59	41	33	37	28	20	14
	Lmax	**67**	80	80	57	47	62	46	38	30
	L90	**33**	47	42	36	29	27	20	13	12
00:20	Leq	**37**	53	47	39	32	31	25	17	13
	Lmax	**52**	70	64	53	39	40	44	36	20
	L90	**32**	46	40	35	28	25	17	12	12
00:25	Leq	**41**	57	51	43	36	34	27	19	13
	Lmax	**62**	71	74	66	58	52	41	35	23
	L90	**33**	49	41	36	28	26	18	12	12
00:30	Leq	**37**	53	44	39	32	32	25	17	13
	Lmax	**49**	66	59	46	42	46	36	27	20
	L90	**33**	46	40	36	29	27	19	12	12
00:35	Leq	**42**	57	48	44	37	36	31	29	21
	Lmax	**56**	75	60	57	49	50	42	46	38
	L90	**35**	49	43	38	31	31	22	13	12
00:40	Leq	**42**	55	50	41	36	35	34	31	24
	Lmax	**59**	71	72	59	53	48	41	43	38
	L90	**35**	46	40	35	29	29	27	22	15
00:45	Leq	**42**	56	52	46	37	31	25	18	13
	Lmax	**56**	70	67	60	52	43	37	30	19
	L90	**33**	48	41	37	29	26	19	13	12
00:50	Leq	**41**	56	47	41	35	37	31	24	15
	Lmax	**54**	68	59	51	45	51	46	44	28
	L90	**33**	48	40	36	29	28	20	13	12
00:55	Leq	**42**	58	51	43	36	37	30	23	16
	Lmax	**59**	72	71	63	53	49	45	40	33
	L90	**34**	49	42	37	29	28	20	13	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
01:00	Leq	**36**	53	45	38	31	31	24	17	13
	Lmax	**52**	68	62	47	40	50	36	31	20
	L90	**32**	47	40	36	28	25	18	12	12
01:05	Leq	**36**	51	42	38	32	31	24	16	13
	Lmax	**48**	68	55	45	42	42	35	28	23
	L90	**31**	45	39	35	28	25	17	12	12
01:10	Leq	**39**	51	44	40	36	34	27	18	13
	Lmax	**53**	67	57	48	51	49	41	31	18
	L90	**33**	45	39	36	30	27	19	13	12
01:15	Leq	**35**	49	40	36	31	30	24	17	13
	Lmax	**51**	63	52	46	52	46	37	30	30
	L90	**30**	43	37	34	27	23	17	12	12
01:20	Leq	**36**	51	43	37	31	32	26	19	13
	Lmax	**53**	71	61	46	44	49	46	41	21
	L90	**31**	43	37	34	28	24	17	12	12
01:25	Leq	**37**	50	41	37	31	32	30	21	13
	Lmax	**59**	71	56	45	40	53	55	45	26
	L90	**30**	43	37	34	28	23	17	12	12
01:30	Leq	**49**	62	64	45	35	34	29	20	13
	Lmax	**70**	81	85	69	52	52	52	42	24
	L90	**32**	44	38	35	28	25	19	12	12
01:35	Leq	**44**	63	58	44	34	32	26	17	13
	Lmax	**64**	83	78	61	49	43	36	29	21
	L90	**31**	45	39	35	27	24	18	12	12
01:40	Leq	**39**	52	44	43	34	33	26	18	13
	Lmax	**54**	69	54	57	44	51	35	29	20
	L90	**32**	43	38	36	29	24	18	12	12
01:45	Leq	**35**	49	40	37	31	31	24	17	13
	Lmax	**47**	65	51	43	41	44	37	31	20
	L90	**30**	42	36	35	27	23	17	12	12
01:50	Leq	**41**	50	44	38	38	36	32	23	13
	Lmax	**62**	68	65	47	62	55	56	46	25
	L90	**31**	43	37	35	28	25	17	12	12
01:55	Leq	**35**	49	41	37	30	30	24	18	13
	Lmax	**46**	64	54	44	39	41	36	32	22
	L90	**30**	42	37	35	26	23	16	12	12
02:00	Leq	**34**	46	39	36	28	29	23	18	13
	Lmax	**47**	61	48	44	38	43	37	38	24
	L90	**29**	41	36	34	26	21	16	12	12
02:05	Leq	**42**	48	40	37	31	38	36	32	17
	Lmax	**63**	65	54	45	48	57	58	57	43
	L90	**30**	41	36	35	26	24	18	12	12
02:10	Leq	**39**	51	41	37	31	37	31	24	13
	Lmax	**55**	67	48	43	42	51	48	46	25
	L90	**30**	43	37	34	26	24	18	13	12
02:15	Leq	**34**	49	38	35	30	30	23	15	12
	Lmax	**52**	74	48	43	45	50	36	26	15
	L90	**29**	40	35	33	25	20	15	11	12
02:20	Leq	**36**	50	45	36	31	33	24	17	13
	Lmax	**56**	70	66	43	45	53	43	44	25
	L90	**30**	40	36	34	27	23	16	12	12
02:25	Leq	**39**	54	43	39	34	36	29	22	14
	Lmax	**60**	74	61	49	45	57	53	50	30
	L90	**30**	40	36	34	27	22	16	12	12
02:30	Leq	**43**	51	46	38	32	39	37	30	15
	Lmax	**64**	65	63	47	44	59	59	54	35
	L90	**31**	41	38	35	27	23	17	12	12
02:35	Leq	**44**	53	51	38	31	40	37	35	20
	Lmax	**68**	70	67	47	49	64	61	61	44
	L90	**30**	41	36	35	26	23	17	12	12
02:40	Leq	**44**	57	45	39	35	40	39	29	15
	Lmax	**66**	77	62	58	50	58	63	54	33
	L90	**28**	37	33	32	25	21	16	12	12
02:45	Leq	**43**	53	40	37	33	40	36	31	14
	Lmax	**64**	74	53	46	46	60	59	53	31
	L90	**30**	38	33	34	26	23	17	12	12
02:50	Leq	**44**	50	38	36	31	40	39	31	15
	Lmax	**68**	71	51	45	46	64	64	54	35
	L90	**29**	38	33	33	26	23	17	13	12
02:55	Leq	**45**	43	36	35	30	40	40	32	16
	Lmax	**70**	57	48	43	47	66	67	55	37
	L90	**29**	37	33	33	26	23	17	13	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
03:00	Leq	**46**	46	38	35	31	43	41	35	16
	Lmax	**71**	63	50	44	47	67	67	58	38
	L90	**30**	37	33	33	26	24	19	13	12
03:05	Leq	**48**	48	39	36	32	46	42	37	18
	Lmax	**72**	66	51	44	47	70	66	61	44
	L90	**30**	36	33	33	27	26	20	14	12
03:10	Leq	**51**	57	61	51	37	47	41	38	19
	Lmax	**71**	75	83	74	55	61	58	60	38
	L90	**33**	37	33	33	27	30	24	17	12
03:15	Leq	**51**	58	61	50	37	47	41	38	19
	Lmax	**71**	79	83	74	55	64	60	60	40
	L90	**33**	37	33	33	27	30	23	17	13
03:20	Leq	**51**	58	59	49	37	47	43	39	21
	Lmax	**73**	79	81	72	54	68	66	62	44
	L90	**32**	37	34	33	27	29	23	16	13
03:25	Leq	**41**	45	38	36	31	39	33	28	14
	Lmax	**60**	66	54	50	43	57	53	52	35
	L90	**31**	35	32	33	26	26	20	14	12
03:30	Leq	**47**	50	40	37	34	45	41	35	17
	Lmax	**65**	67	56	46	46	63	58	55	39
	L90	**33**	37	34	35	29	29	23	16	12
03:35	Leq	**48**	50	40	37	34	46	41	36	18
	Lmax	**70**	67	56	46	46	69	62	57	40
	L90	**33**	37	34	35	29	29	23	16	12
03:40	Leq	**49**	51	51	39	34	47	42	37	18
	Lmax	**74**	69	74	56	46	72	65	59	40
	L90	**32**	37	34	34	28	29	22	16	12
03:45	Leq	**49**	59	58	44	32	46	41	34	16
	Lmax	**70**	77	78	62	48	65	66	57	38
	L90	**29**	37	33	32	26	23	18	13	12
03:50	Leq	**50**	45	37	35	31	47	45	40	21
	Lmax	**68**	65	53	45	45	64	63	59	43
	L90	**31**	36	32	33	26	26	21	16	12
03:55	Leq	**46**	48	43	36	28	44	38	36	18
	Lmax	**67**	68	62	53	41	63	57	62	42
	L90	**30**	35	32	32	25	26	21	15	12
04:00	Leq	**48**	46	42	41	30	46	41	37	19
	Lmax	**71**	65	59	59	47	69	65	62	42
	L90	**30**	35	32	32	26	25	20	15	12
04:05	Leq	**48**	44	36	36	30	45	41	37	18
	Lmax	**66**	64	50	47	45	65	58	55	36
	L90	**29**	34	31	32	26	23	17	14	12
04:10	Leq	**40**	50	40	35	31	37	33	28	14
	Lmax	**57**	73	54	43	44	52	48	51	33
	L90	**30**	36	33	33	26	24	20	15	12
04:15	Leq	**45**	43	37	35	33	43	38	35	20
	Lmax	**68**	57	49	44	57	67	59	60	47
	L90	**31**	37	33	33	27	26	21	16	12
04:20	Leq	**40**	42	36	36	29	37	35	29	14
	Lmax	**60**	58	47	40	37	55	56	51	29
	L90	**30**	35	32	34	26	25	19	14	12
04:25	Leq	**46**	44	37	38	33	42	41	37	18
	Lmax	**67**	60	49	45	47	61	62	60	41
	L90	**31**	37	33	35	28	26	20	15	12
04:30	Leq	**49**	45	39	39	34	46	43	40	20
	Lmax	**71**	61	50	47	51	68	65	64	44
	L90	**32**	38	35	36	29	27	21	16	13
04:35	Leq	**43**	41	36	36	30	39	38	30	15
	Lmax	**64**	59	49	44	49	56	61	53	35
	L90	**31**	36	33	34	27	26	20	14	12
04:40	Leq	**44**	42	36	36	30	41	39	33	17
	Lmax	**67**	60	49	45	49	63	62	58	43
	L90	**31**	36	33	34	27	26	20	14	12
04:45	Leq	**47**	43	36	36	31	44	40	36	19
	Lmax	**72**	62	48	46	49	70	64	63	46
	L90	**31**	36	33	34	27	26	20	15	12
04:50	Leq	**45**	44	38	37	33	42	40	33	16
	Lmax	**68**	56	52	46	52	61	66	55	38
	L90	**32**	38	34	34	28	28	22	15	12
04:55	Leq	**43**	54	44	40	34	40	35	30	15
	Lmax	**58**	74	58	53	47	52	51	49	30
	L90	**34**	41	36	35	29	31	23	18	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
05:00	Leq	**45**	50	43	41	36	42	38	33	16
	Lmax	**64**	67	56	53	49	61	58	52	29
	L90	**32**	40	34	34	28	29	22	16	12
05:05	Leq	**44**	50	43	38	33	42	37	33	17
	Lmax	**60**	74	62	49	47	57	52	51	40
	L90	**33**	38	35	35	28	29	22	16	13
05:10	Leq	**48**	51	43	41	35	46	40	35	16
	Lmax	**64**	71	58	57	47	62	56	50	33
	L90	**36**	41	37	36	30	33	27	20	13
05:15	Leq	**47**	50	42	42	35	45	39	35	17
	Lmax	**69**	69	56	57	46	68	58	59	40
	L90	**35**	40	36	35	30	31	25	18	13
05:20	Leq	**46**	48	40	41	33	44	39	36	17
	Lmax	**71**	65	53	54	44	70	62	61	42
	L90	**33**	38	35	35	28	29	22	16	13
05:25	Leq	**45**	54	47	46	41	40	36	31	15
	Lmax	**63**	70	58	58	56	61	52	49	33
	L90	**34**	45	38	36	31	29	22	17	13
05:30	Leq	**45**	51	44	40	34	43	36	33	17
	Lmax	**67**	65	59	51	46	66	56	56	38
	L90	**35**	40	37	36	30	32	26	19	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Overall Rush Hour	Leq	**46**	60	52	45	40	42	37	30	20
	Lmax	**63**	76	70	62	56	58	55	50	44
	L90	**40**	52	44	40	35	36	28	20	13
Overall Evening	Leq	**47**	60	56	47	41	43	37	33	17
	Lmax	**70**	79	77	66	64	67	61	58	43
	L90	**36**	49	42	38	32	31	25	18	13
Overall Night Time	Leq	**45**	56	53	43	35	41	37	32	17
	Lmax	**66**	74	74	63	54	63	59	55	38
	L90	**33**	47	39	36	29	27	21	16	13

Saturday Evening to Monday Morning Rush Hour

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
18:10	Leq	**52**	65	55	49	46	49	43	38	22
	Lmax	**72**	85	75	66	61	66	66	64	45
	L90	**46**	48	44	43	41	44	35	25	14
18:15	Leq	**50**	67	56	48	45	46	40	34	21
	Lmax	**68**	87	77	66	62	61	60	54	48
	L90	**45**	49	44	43	40	43	34	23	14
18:20	Leq	**49**	66	56	49	45	45	38	31	22
	Lmax	**65**	85	75	64	57	55	55	51	47
	L90	**45**	50	45	43	41	43	33	23	14
18:25	Leq	**50**	63	56	51	47	47	39	30	20
	Lmax	**71**	83	73	72	67	67	62	54	45
	L90	**46**	51	46	44	41	44	34	21	13
18:30	Leq	**51**	66	56	48	45	48	41	34	22
	Lmax	**69**	88	79	65	58	61	62	54	46
	L90	**44**	48	44	42	40	42	33	22	14
18:35	Leq	**50**	62	54	51	48	46	40	31	19
	Lmax	**69**	86	77	67	63	64	60	47	42
	L90	**44**	51	45	43	40	42	33	21	13
18:40	Leq	**48**	58	53	49	43	45	37	28	19
	Lmax	**65**	81	73	70	53	56	50	50	46
	L90	**44**	51	45	42	40	42	33	21	13
18:45	Leq	**47**	55	50	46	41	44	37	28	15
	Lmax	**62**	77	67	64	55	57	55	47	27
	L90	**43**	46	43	42	39	41	32	20	13
18:50	Leq	**48**	59	52	46	43	45	36	28	20
	Lmax	**64**	80	72	59	60	60	52	51	46
	L90	**44**	48	44	42	40	42	32	21	13
18:55	Leq	**50**	62	53	48	44	47	40	31	21
	Lmax	**69**	82	71	61	56	64	64	51	48
	L90	**45**	49	45	43	41	43	33	21	14

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
19:00	Leq	**50**	65	55	49	44	46	39	29	19
	Lmax	**68**	87	76	67	62	65	55	48	40
	L90	**45**	50	45	43	40	43	34	22	14
19:05	Leq	**48**	56	47	46	43	46	39	32	16
	Lmax	**66**	82	68	55	59	62	59	53	32
	L90	**44**	47	44	43	40	43	32	20	13
19:10	Leq	**54**	61	53	49	44	52	46	38	19
	Lmax	**76**	82	72	65	53	74	70	61	41
	L90	**46**	51	45	44	41	44	35	23	14
19:15	Leq	**54**	63	56	54	45	51	45	38	20
	Lmax	**75**	84	75	72	59	73	66	59	44
	L90	**45**	47	43	42	40	43	33	22	13
19:20	Leq	**51**	60	57	50	44	47	43	36	23
	Lmax	**69**	77	74	68	61	62	64	59	45
	L90	**45**	49	45	43	40	43	33	22	13
19:25	Leq	**48**	61	55	49	44	45	37	29	18
	Lmax	**64**	85	75	64	55	57	51	50	45
	L90	**44**	48	45	42	39	42	32	20	13
19:30	Leq	**50**	63	53	48	50	46	37	29	19
	Lmax	**73**	83	72	67	76	55	49	52	45
	L90	**45**	49	45	43	40	43	33	21	13
19:35	Leq	**48**	58	51	47	42	45	37	29	20
	Lmax	**64**	79	69	65	56	59	56	55	49
	L90	**44**	47	44	42	39	42	32	20	13
19:40	Leq	**48**	59	50	46	44	45	37	27	17
	Lmax	**61**	74	64	60	57	56	53	42	33
	L90	**44**	49	44	42	40	42	32	20	13
19:45	Leq	**47**	56	49	44	42	45	36	29	16
	Lmax	**63**	72	70	61	58	60	54	50	26
	L90	**43**	47	42	41	39	42	31	19	13
19:50	Leq	**47**	53	48	44	42	45	36	26	14
	Lmax	**62**	67	66	57	58	60	50	43	31
	L90	**43**	47	43	41	39	41	31	18	13
19:55	Leq	**49**	57	51	46	43	47	39	31	16
	Lmax	**64**	73	72	59	57	62	54	48	28
	L90	**44**	47	43	41	38	42	31	21	13
20:00	Leq	**49**	56	48	45	46	45	38	28	16
	Lmax	**68**	71	69	59	68	61	60	47	39
	L90	**44**	46	43	42	39	42	32	20	13
20:05	Leq	**47**	56	47	44	42	46	37	30	15
	Lmax	**62**	71	64	55	52	60	51	48	40
	L90	**43**	47	42	41	38	41	30	20	13
20:10	Leq	**51**	53	48	46	46	49	43	35	17
	Lmax	**69**	67	69	67	67	66	59	53	35
	L90	**44**	46	42	41	38	43	32	21	13
20:15	Leq	**52**	54	49	47	44	50	42	36	19
	Lmax	**73**	69	67	67	70	71	60	62	42
	L90	**43**	47	42	41	38	42	31	21	13
20:20	Leq	**48**	53	46	43	41	46	39	32	16
	Lmax	**64**	67	58	52	53	62	57	51	34
	L90	**44**	47	42	41	39	42	32	20	13
20:25	Leq	**50**	53	46	45	43	48	41	36	22
	Lmax	**75**	66	62	57	56	74	65	64	47
	L90	**44**	48	42	41	39	42	32	22	13
20:30	Leq	**49**	60	56	51	45	45	36	30	16
	Lmax	**65**	77	73	70	63	55	50	52	29
	L90	**43**	48	43	41	38	42	30	18	13
20:35	Leq	**48**	57	54	48	42	45	37	29	14
	Lmax	**63**	76	72	63	55	59	53	47	27
	L90	**43**	47	44	42	39	42	30	18	13
20:40	Leq	**47**	52	47	45	43	45	37	31	15
	Lmax	**71**	67	61	69	66	69	62	60	33
	L90	**42**	45	42	40	37	40	28	16	13
20:45	Leq	**47**	52	47	45	42	45	39	32	15
	Lmax	**62**	63	62	57	56	60	55	49	29
	L90	**42**	46	42	40	37	40	29	17	13
20:50	Leq	**49**	53	47	45	41	47	37	32	16
	Lmax	**74**	65	66	62	54	74	57	60	42
	L90	**42**	48	43	41	38	41	29	18	13
20:55	Leq	**49**	53	48	45	43	46	42	34	17
	Lmax	**71**	65	66	61	64	61	68	57	43
	L90	**42**	48	44	41	37	40	29	18	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
21:00	Leq	**51**	59	57	52	47	47	39	33	16
	Lmax	**74**	78	80	76	73	69	56	51	34
	L90	**43**	50	46	43	38	41	32	22	13
21:05	Leq	**50**	59	57	50	45	47	39	32	16
	Lmax	**67**	74	72	67	62	64	55	48	33
	L90	**42**	49	45	41	38	40	31	21	13
21:10	Leq	**49**	54	49	46	44	46	42	35	19
	Lmax	**70**	73	67	60	68	64	64	57	37
	L90	**42**	47	44	41	37	40	30	20	13
21:15	Leq	**50**	58	52	47	47	47	38	29	22
	Lmax	**71**	73	71	64	70	68	59	48	48
	L90	**43**	48	45	41	38	40	31	21	13
21:20	Leq	**47**	62	53	46	42	43	35	28	16
	Lmax	**61**	80	68	60	54	56	50	46	36
	L90	**42**	52	46	41	37	40	31	21	13
21:25	Leq	**44**	53	47	43	39	41	32	22	14
	Lmax	**52**	62	58	53	46	47	45	36	34
	L90	**41**	47	42	39	36	38	28	18	13
21:30	Leq	**47**	56	51	46	42	43	37	29	16
	Lmax	**58**	74	64	57	55	52	51	44	28
	L90	**42**	48	45	40	38	40	30	20	13
21:35	Leq	**47**	56	49	46	44	43	36	29	15
	Lmax	**65**	73	61	65	66	57	53	48	29
	L90	**40**	48	44	39	36	38	27	18	13
21:40	Leq	**53**	58	59	55	50	49	39	30	16
	Lmax	**77**	76	81	77	74	74	61	52	37
	L90	**41**	48	45	40	37	38	28	19	13
21:45	Leq	**45**	56	49	46	41	42	33	25	14
	Lmax	**60**	71	69	63	56	53	53	39	28
	L90	**40**	47	43	40	36	38	27	17	13
21:50	Leq	**44**	53	49	44	40	40	32	25	14
	Lmax	**57**	70	62	60	49	51	48	46	32
	L90	**40**	46	43	39	36	37	27	18	13
21:55	Leq	**46**	56	51	45	46	41	33	23	14
	Lmax	**65**	73	68	61	66	54	58	36	34
	L90	**40**	49	44	40	37	37	28	18	13
22:00	Leq	**49**	58	54	47	48	44	36	27	16
	Lmax	**70**	75	75	61	66	69	52	43	33
	L90	**41**	48	44	40	37	38	28	18	13
22:05	Leq	**49**	52	51	50	47	45	35	26	15
	Lmax	**72**	71	71	73	70	68	56	47	37
	L90	**41**	45	44	39	37	39	28	19	13
22:10	Leq	**46**	55	52	47	42	43	34	25	14
	Lmax	**60**	69	68	58	56	56	49	39	27
	L90	**41**	47	45	39	37	39	28	18	13
22:15	Leq	**45**	53	49	45	41	43	33	24	14
	Lmax	**61**	64	63	58	57	59	48	49	35
	L90	**42**	48	46	41	37	40	28	16	13
22:20	Leq	**46**	57	52	46	42	43	33	23	14
	Lmax	**61**	71	67	62	55	57	51	40	27
	L90	**42**	49	46	41	38	40	28	16	13
22:25	Leq	**51**	60	60	54	46	44	36	27	16
	Lmax	**70**	77	82	73	64	60	53	46	34
	L90	**42**	50	48	41	38	39	29	19	13
22:30	Leq	**49**	62	59	50	45	43	34	25	15
	Lmax	**69**	80	78	71	68	62	51	43	30
	L90	**42**	50	46	41	38	40	29	20	13
22:35	Leq	**44**	56	49	45	41	41	31	22	14
	Lmax	**56**	78	64	55	50	49	43	33	20
	L90	**41**	46	45	41	38	38	28	18	13
22:40	Leq	**48**	55	52	50	46	44	36	26	15
	Lmax	**70**	71	72	70	68	66	58	47	36
	L90	**40**	46	45	40	36	38	27	18	13
22:45	Leq	**46**	54	48	43	40	44	35	27	14
	Lmax	**63**	66	62	56	54	61	51	53	30
	L90	**41**	48	44	40	37	39	29	18	13
22:50	Leq	**50**	60	59	54	48	42	33	26	14
	Lmax	**70**	81	77	75	69	60	54	47	30
	L90	**40**	49	46	39	36	38	27	18	13
22:55	Leq	**45**	56	53	46	40	41	33	24	14
	Lmax	**63**	70	69	66	55	56	55	36	26
	L90	**41**	49	44	40	38	39	29	20	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
23:00	Leq	**47**	55	52	46	45	43	35	29	14
	Lmax	**64**	69	70	64	62	59	53	53	22
	L90	**42**	48	43	40	38	39	29	20	13
23:05	Leq	**49**	53	53	52	48	42	33	25	14
	Lmax	**71**	66	68	72	72	62	56	49	31
	L90	**41**	48	44	40	38	38	28	19	13
23:10	Leq	**48**	58	56	49	44	43	35	25	16
	Lmax	**66**	76	77	66	63	60	52	44	34
	L90	**42**	47	46	40	37	40	29	20	13
23:15	Leq	**46**	60	52	45	44	42	33	25	15
	Lmax	**64**	76	64	60	65	58	53	45	35
	L90	**41**	47	46	40	36	38	28	19	13
23:20	Leq	**46**	59	51	44	42	44	32	25	14
	Lmax	**65**	76	66	54	58	64	48	49	32
	L90	**40**	47	45	39	36	37	28	19	13
23:25	Leq	**48**	57	50	48	47	44	35	27	14
	Lmax	**72**	80	68	70	73	66	53	47	27
	L90	**40**	46	44	39	37	36	29	20	13
23:30	Leq	**50**	56	53	49	48	47	38	29	16
	Lmax	**74**	71	69	74	73	69	60	51	35
	L90	**41**	48	45	41	37	38	29	19	13
23:35	Leq	**44**	54	53	44	40	40	32	24	14
	Lmax	**61**	70	72	65	57	51	43	37	24
	L90	**40**	47	46	39	36	38	28	19	13
23:40	Leq	**44**	51	49	41	40	41	33	24	14
	Lmax	**53**	65	57	52	49	49	44	36	21
	L90	**41**	46	45	39	37	39	29	19	13
23:45	Leq	**46**	55	55	48	41	41	32	24	14
	Lmax	**60**	70	70	66	52	50	41	37	20
	L90	**41**	48	47	40	37	37	29	19	13
23:50	Leq	**47**	58	58	47	40	43	37	28	15
	Lmax	**66**	75	78	68	51	56	56	51	26
	L90	**41**	48	45	40	36	38	29	20	13
23:55	Leq	**53**	58	55	50	53	48	40	30	17
	Lmax	**73**	75	74	68	74	67	59	51	35
	L90	**41**	48	45	40	37	38	30	21	13
00:00	Leq	**43**	52	48	41	39	41	32	23	14
	Lmax	**56**	62	60	49	50	55	44	36	21
	L90	**40**	48	44	39	36	37	29	20	13
00:05	Leq	**44**	53	51	44	40	41	33	24	14
	Lmax	**59**	73	64	59	52	57	44	34	22
	L90	**40**	46	43	39	37	37	29	21	13
00:10	Leq	**47**	55	50	45	42	44	39	30	16
	Lmax	**67**	69	59	57	53	65	61	52	36
	L90	**41**	48	46	40	37	38	29	20	13
00:15	Leq	**44**	53	49	43	41	41	33	24	14
	Lmax	**56**	69	62	56	55	51	41	34	26
	L90	**41**	46	43	39	37	38	29	20	13
00:20	Leq	**44**	53	49	41	40	41	34	26	15
	Lmax	**54**	63	60	51	49	50	45	35	22
	L90	**41**	45	44	39	37	38	30	21	13
00:25	Leq	**44**	53	50	42	40	41	34	26	15
	Lmax	**64**	74	65	52	62	62	46	37	38
	L90	**40**	46	47	38	36	37	29	21	13
00:30	Leq	**43**	54	49	41	38	40	33	24	16
	Lmax	**52**	72	57	46	44	48	40	38	27
	L90	**40**	45	45	39	36	38	29	21	13
00:35	Leq	**44**	52	48	41	38	41	36	26	15
	Lmax	**60**	62	56	51	48	54	56	46	30
	L90	**40**	49	44	38	36	37	28	19	13
00:40	Leq	**45**	53	48	43	41	42	34	24	15
	Lmax	**56**	66	60	51	50	54	45	39	21
	L90	**41**	48	45	40	37	38	29	20	13
00:45	Leq	**46**	57	52	45	44	43	35	27	21
	Lmax	**64**	76	68	63	64	59	48	42	43
	L90	**42**	47	46	41	38	39	30	22	13
00:50	Leq	**48**	57	58	49	44	44	36	27	17
	Lmax	**68**	73	76	67	66	63	55	46	38
	L90	**41**	47	45	40	37	38	29	20	13
00:55	Leq	**51**	59	60	52	47	45	38	31	19
	Lmax	**71**	77	82	73	68	63	56	53	36
	L90	**42**	49	46	41	38	39	30	21	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
01:00	Leq	**44**	52	50	42	40	40	32	23	14
	Lmax	**56**	70	64	58	54	49	44	40	22
	L90	**40**	45	45	39	36	37	28	19	13
01:05	Leq	**45**	57	50	45	42	42	35	25	16
	Lmax	**64**	76	65	63	61	56	58	40	40
	L90	**40**	46	44	39	37	38	29	19	13
01:10	Leq	**53**	65	66	53	46	45	36	31	22
	Lmax	**76**	84	89	74	68	71	56	54	46
	L90	**41**	48	45	39	37	37	29	21	13
01:15	Leq	**45**	56	51	45	41	42	35	27	15
	Lmax	**59**	75	67	62	53	52	50	43	24
	L90	**41**	47	43	39	37	38	29	21	13
01:20	Leq	**46**	53	51	45	43	42	36	27	15
	Lmax	**67**	74	69	65	66	61	59	48	30
	L90	**39**	43	42	38	36	36	27	18	13
01:25	Leq	**43**	49	49	41	40	40	32	24	15
	Lmax	**53**	59	58	48	46	50	42	39	26
	L90	**40**	44	42	39	37	37	28	20	13
01:30	Leq	**44**	52	48	41	40	40	34	25	15
	Lmax	**56**	64	60	50	52	50	52	39	32
	L90	**40**	46	43	38	37	37	29	20	13
01:35	Leq	**44**	52	51	41	39	40	33	24	14
	Lmax	**55**	63	59	51	50	50	51	39	27
	L90	**40**	48	46	38	36	37	28	19	13
01:40	Leq	**41**	52	47	39	37	38	31	23	14
	Lmax	**55**	61	59	48	48	52	47	38	19
	L90	**38**	46	44	37	33	35	25	17	13
01:45	Leq	**41**	48	46	39	38	38	31	23	14
	Lmax	**53**	59	56	49	47	50	41	35	23
	L90	**38**	43	42	36	34	34	26	19	13
01:50	Leq	**43**	51	47	39	39	40	32	25	14
	Lmax	**59**	59	58	50	55	57	45	39	35
	L90	**38**	47	43	37	35	35	27	20	13
01:55	Leq	**47**	50	46	40	44	44	36	26	14
	Lmax	**64**	63	57	51	61	62	52	43	28
	L90	**38**	45	42	37	35	35	26	18	13
02:00	Leq	**43**	52	46	40	38	40	33	25	14
	Lmax	**58**	68	59	50	55	55	52	38	22
	L90	**37**	45	41	36	34	34	25	17	13
02:05	Leq	**44**	53	52	40	38	41	34	29	14
	Lmax	**64**	71	72	52	55	61	53	55	32
	L90	**36**	41	37	36	33	34	24	16	13
02:10	Leq	**41**	53	50	40	35	38	29	20	13
	Lmax	**56**	71	68	59	44	50	40	37	19
	L90	**35**	39	36	35	32	33	22	13	12
02:15	Leq	**43**	48	42	39	37	40	34	26	14
	Lmax	**64**	64	58	53	53	62	57	48	34
	L90	**36**	39	35	35	32	33	23	13	12
02:20	Leq	**42**	48	41	39	37	40	31	22	14
	Lmax	**61**	66	57	56	55	60	50	39	34
	L90	**34**	38	34	33	30	31	21	12	12
02:25	Leq	**51**	48	42	38	36	50	44	37	18
	Lmax	**75**	64	57	51	48	73	69	62	41
	L90	**37**	40	35	34	32	35	24	13	12
02:30	Leq	**41**	50	44	39	38	39	29	21	13
	Lmax	**56**	67	57	48	53	54	45	41	34
	L90	**37**	42	37	36	32	34	24	14	12
02:35	Leq	**46**	45	40	39	36	44	39	31	17
	Lmax	**68**	58	50	47	46	67	61	52	35
	L90	**37**	39	36	36	32	35	24	14	12
02:40	Leq	**44**	49	42	40	37	41	37	29	15
	Lmax	**61**	62	57	52	48	58	55	49	33
	L90	**37**	39	37	37	32	35	25	15	13
02:45	Leq	**44**	45	40	39	36	43	35	30	14
	Lmax	**61**	59	52	49	46	59	51	53	32
	L90	**36**	37	36	36	32	34	25	15	12
02:50	Leq	**45**	57	53	45	41	42	34	27	14
	Lmax	**62**	80	72	63	59	55	47	43	25
	L90	**38**	37	37	37	34	35	26	16	13
02:55	Leq	**48**	48	46	41	38	47	38	32	17
	Lmax	**69**	64	63	54	56	68	60	53	41
	L90	**37**	39	38	36	33	34	26	16	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
03:00	Leq	**47**	49	43	40	41	45	39	31	16
	Lmax	**64**	63	56	52	61	60	56	51	37
	L90	**37**	39	37	36	33	34	25	17	13
03:05	Leq	**44**	42	39	37	35	43	35	28	14
	Lmax	**67**	57	47	45	48	66	51	48	32
	L90	**34**	36	36	35	30	31	21	14	12
03:10	Leq	**54**	56	55	46	39	51	48	39	20
	Lmax	**77**	77	75	71	54	72	73	59	43
	L90	**39**	41	39	36	33	37	30	21	13
03:15	Leq	**50**	47	43	37	36	47	44	38	21
	Lmax	**71**	66	57	46	51	67	66	60	43
	L90	**38**	38	36	34	32	36	28	19	13
03:20	Leq	**51**	44	38	36	35	49	44	38	19
	Lmax	**72**	58	52	47	46	70	66	57	40
	L90	**37**	37	33	33	31	35	26	18	13
03:25	Leq	**42**	49	42	38	35	40	35	30	15
	Lmax	**62**	64	54	47	46	58	52	57	36
	L90	**35**	38	34	33	30	34	25	15	12
03:30	Leq	**41**	43	37	36	34	39	32	23	14
	Lmax	**58**	59	46	44	45	55	54	46	36
	L90	**34**	37	34	33	29	31	23	14	12
03:35	Leq	**44**	43	39	36	34	41	37	32	15
	Lmax	**65**	57	53	44	43	61	59	59	35
	L90	**34**	35	33	32	30	32	23	14	12
03:40	Leq	**46**	42	44	38	34	43	42	32	15
	Lmax	**68**	58	59	53	48	62	64	53	34
	L90	**34**	35	34	34	29	31	22	14	12
03:45	Leq	**45**	43	41	38	33	43	36	31	15
	Lmax	**67**	60	57	50	42	66	56	53	36
	L90	**33**	35	33	34	29	30	20	14	12
03:50	Leq	**40**	44	39	36	32	37	32	23	13
	Lmax	**57**	63	54	46	46	53	52	46	22
	L90	**33**	36	34	34	29	30	21	14	12
03:55	Leq	**46**	44	41	37	32	44	38	34	19
	Lmax	**68**	59	56	49	43	66	59	61	47
	L90	**33**	35	33	34	29	31	20	13	12
04:00	Leq	**51**	42	39	37	34	49	42	41	26
	Lmax	**76**	60	52	53	47	75	65	68	55
	L90	**32**	35	32	32	29	30	21	15	12
04:05	Leq	**43**	40	36	35	34	40	37	27	14
	Lmax	**65**	49	47	47	46	63	60	46	39
	L90	**33**	36	33	32	29	31	20	13	12
04:10	Leq	**46**	44	40	37	35	43	40	34	15
	Lmax	**67**	64	56	50	44	63	61	59	35
	L90	**34**	34	32	32	31	32	21	14	12
04:15	Leq	**45**	43	39	35	31	42	39	35	15
	Lmax	**68**	59	53	46	40	60	65	60	31
	L90	**32**	33	32	32	28	29	20	13	12
04:20	Leq	**47**	43	40	38	34	45	41	36	20
	Lmax	**68**	62	60	47	49	66	62	55	41
	L90	**33**	34	33	33	30	31	21	14	13
04:25	Leq	**45**	44	38	37	35	43	38	31	16
	Lmax	**66**	57	47	46	46	63	61	55	41
	L90	**35**	35	34	33	31	33	22	15	13
04:30	Leq	**43**	48	39	39	35	40	35	27	15
	Lmax	**63**	66	51	50	43	61	58	49	33
	L90	**36**	37	34	35	32	34	21	13	12
04:35	Leq	**48**	47	41	38	35	46	43	37	20
	Lmax	**64**	64	57	47	43	62	58	53	36
	L90	**37**	37	35	34	32	35	23	15	12
04:40	Leq	**44**	49	42	38	35	42	35	29	14
	Lmax	**59**	66	55	47	48	58	50	47	26
	L90	**35**	36	34	34	31	33	23	14	13
04:45	Leq	**38**	40	37	35	32	35	29	20	13
	Lmax	**52**	54	47	45	41	47	49	36	24
	L90	**34**	35	33	33	30	32	20	13	12
04:50	Leq	**44**	45	43	44	41	40	34	27	14
	Lmax	**61**	57	56	55	52	57	55	48	31
	L90	**36**	36	34	35	32	33	22	14	12
04:55	Leq	**40**	46	38	36	34	38	31	26	13
	Lmax	**56**	62	50	46	42	52	48	50	30
	L90	**35**	35	34	33	31	33	21	12	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
05:00	Leq	**40**	43	37	37	35	37	33	23	14
	Lmax	**60**	56	50	48	45	53	57	43	38
	L90	**34**	36	34	33	30	32	22	13	12
05:05	Leq	**51**	49	44	41	39	50	41	37	19
	Lmax	**77**	73	67	61	55	75	68	61	40
	L90	**35**	38	34	34	32	32	21	14	13
05:10	Leq	**50**	51	48	47	44	45	44	36	18
	Lmax	**72**	71	64	63	60	67	68	60	38
	L90	**37**	39	37	36	33	35	24	15	13
05:15	Leq	**44**	44	40	38	35	41	38	31	17
	Lmax	**67**	59	55	50	44	55	65	56	44
	L90	**36**	35	33	34	31	35	24	16	13
05:20	Leq	**53**	56	53	55	53	47	41	35	26
	Lmax	**67**	69	67	69	67	60	54	50	42
	L90	**35**	36	34	34	31	34	23	15	13
05:25	Leq	**54**	57	54	57	54	48	42	36	25
	Lmax	**68**	71	65	70	66	62	59	50	42
	L90	**37**	44	40	37	34	35	23	17	13
05:30	Leq	**43**	44	43	42	41	39	31	22	19
	Lmax	**57**	57	56	56	55	48	47	45	49
	L90	**37**	37	35	36	33	35	23	14	13
05:35	Leq	**44**	47	41	42	40	41	34	29	21
	Lmax	**55**	61	50	51	54	51	47	38	29
	L90	**40**	38	37	39	36	38	30	24	15
05:40	Leq	**44**	47	40	40	37	42	34	27	15
	Lmax	**61**	65	56	49	48	59	53	47	36
	L90	**38**	39	37	38	33	35	26	19	14
05:45	Leq	**49**	51	48	49	47	44	38	32	21
	Lmax	**64**	63	60	60	59	62	53	44	35
	L90	**40**	41	39	40	36	37	26	18	13
05:50	Leq	**46**	44	41	41	38	43	38	34	17
	Lmax	**64**	53	46	53	49	61	57	58	36
	L90	**37**	39	36	37	34	34	25	17	13
05:55	Leq	**41**	43	42	40	35	39	33	24	13
	Lmax	**61**	56	54	54	49	57	57	40	27
	L90	**34**	37	36	35	32	31	20	14	12
06:00	Leq	**45**	44	38	36	33	43	39	29	14
	Lmax	**68**	64	52	47	52	66	62	52	32
	L90	**33**	35	32	33	30	31	21	14	12
06:05	Leq	**47**	43	40	39	35	43	42	35	19
	Lmax	**72**	58	52	52	50	64	69	62	46
	L90	**35**	37	34	35	32	33	22	14	13
06:10	Leq	**41**	42	39	39	35	39	34	27	14
	Lmax	**56**	60	53	48	42	51	52	46	34
	L90	**36**	37	35	34	31	33	23	14	13
06:15	Leq	**45**	49	43	41	39	43	37	31	16
	Lmax	**59**	64	54	54	52	55	52	47	38
	L90	**39**	42	39	37	34	37	30	24	13
06:20	Leq	**50**	50	48	49	47	46	41	35	21
	Lmax	**68**	64	62	62	62	66	57	57	37
	L90	**40**	40	38	36	34	37	31	24	13
06:25	Leq	**45**	49	48	47	43	41	33	27	14
	Lmax	**60**	60	61	61	61	52	46	39	31
	L90	**39**	40	38	37	34	37	28	23	13
06:30	Leq	**45**	48	44	39	37	42	39	29	17
	Lmax	**61**	66	63	46	49	56	57	49	41
	L90	**39**	40	37	37	34	37	25	14	13
06:35	Leq	**48**	55	51	44	41	46	39	34	19
	Lmax	**72**	72	68	58	58	71	60	59	44
	L90	**39**	41	42	38	34	37	26	15	13
06:40	Leq	**45**	49	48	48	45	39	32	22	13
	Lmax	**64**	59	60	61	64	55	59	42	33
	L90	**36**	41	38	36	32	33	22	12	12
06:45	Leq	**46**	51	48	48	45	42	34	27	14
	Lmax	**65**	73	60	61	64	60	56	42	30
	L90	**35**	38	35	33	31	33	22	14	13
06:50	Leq	**43**	45	42	40	36	41	36	28	23
	Lmax	**62**	58	53	52	45	57	58	47	50
	L90	**36**	39	37	34	31	33	23	13	12
06:55	Leq	**43**	48	46	44	39	39	33	27	14
	Lmax	**58**	59	57	58	54	54	52	43	27
	L90	**37**	43	40	38	33	34	24	15	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
07:00	Leq	**44**	49	42	38	36	42	36	29	16
	Lmax	**61**	66	54	50	48	58	57	49	35
	L90	**35**	37	34	34	31	33	23	15	13
07:05	Leq	**49**	50	44	40	38	46	42	35	19
	Lmax	**67**	64	60	58	58	61	63	55	39
	L90	**35**	38	36	34	31	32	23	15	13
07:10	Leq	**47**	57	42	40	36	44	41	34	18
	Lmax	**68**	66	54	53	48	64	64	56	47
	L90	**36**	56	38	35	32	31	22	16	13
07:15	Leq	**44**	55	43	40	36	42	37	29	15
	Lmax	**59**	62	56	56	44	55	55	47	32
	L90	**33**	43	36	34	30	29	21	16	13
07:20	Leq	**42**	50	47	40	36	39	33	27	16
	Lmax	**61**	68	68	50	45	59	51	49	35
	L90	**34**	41	35	35	30	30	22	15	13
07:25	Leq	**44**	44	41	40	35	42	35	32	15
	Lmax	**61**	56	53	55	50	59	53	51	32
	L90	**32**	39	36	33	28	28	19	13	12
07:30	Leq	**46**	54	42	39	37	44	38	34	18
	Lmax	**70**	65	53	49	51	68	60	60	38
	L90	**36**	47	38	36	32	33	26	19	13
07:35	Leq	**46**	48	46	41	36	42	41	30	15
	Lmax	**67**	61	59	53	47	61	64	57	33
	L90	**35**	40	36	36	31	32	23	15	13
07:40	Leq	**50**	56	48	40	35	48	43	35	19
	Lmax	**74**	76	66	54	49	73	68	59	45
	L90	**35**	41	36	33	30	32	24	17	13
07:45	Leq	**44**	51	44	41	39	40	36	30	15
	Lmax	**66**	65	58	53	50	61	62	55	35
	L90	**33**	41	37	34	30	30	20	14	13
07:50	Leq	**40**	45	39	36	35	38	31	26	14
	Lmax	**56**	59	49	46	48	52	47	50	32
	L90	**33**	37	35	33	29	30	21	13	12
07:55	Leq	**42**	49	47	42	36	39	34	28	18
	Lmax	**62**	72	70	60	55	58	52	51	29
	L90	**37**	38	36	35	32	35	26	19	13
08:00	Leq	**46**	48	42	40	40	43	39	34	27
	Lmax	**55**	62	59	50	49	51	48	44	37
	L90	**37**	40	37	36	33	35	25	18	14
08:05	Leq	**45**	43	39	39	37	42	38	32	24
	Lmax	**62**	60	47	47	45	59	54	53	45
	L90	**39**	37	36	36	33	37	30	24	17
08:10	Leq	**50**	47	40	40	37	48	44	39	22
	Lmax	**66**	59	51	50	49	61	62	55	41
	L90	**40**	40	37	37	34	39	30	22	15
08:15	Leq	**50**	48	44	43	41	48	43	38	28
	Lmax	**64**	63	55	54	49	63	55	51	39
	L90	**44**	41	39	39	38	42	36	30	17
08:20	Leq	**51**	61	55	51	45	47	44	38	31
	Lmax	**66**	78	71	68	57	62	58	53	42
	L90	**46**	43	40	40	40	43	40	35	28
08:25	Leq	**48**	49	44	43	40	45	41	35	29
	Lmax	**65**	63	58	52	50	61	61	52	44
	L90	**43**	42	39	40	37	41	36	30	24
08:30	Leq	**47**	50	44	44	42	44	40	36	31
	Lmax	**58**	69	57	53	49	53	51	51	46
	L90	**43**	42	39	40	37	40	35	29	25
08:35	Leq	**49**	48	43	43	39	44	45	40	31
	Lmax	**75**	60	60	53	54	61	72	69	46
	L90	**40**	41	38	39	35	38	31	26	24
08:40	Leq	**48**	55	48	45	42	45	38	33	28
	Lmax	**63**	67	66	63	59	61	51	49	44
	L90	**41**	44	39	39	36	39	31	25	22
08:45	Leq	**46**	49	43	42	38	43	38	34	28
	Lmax	**64**	62	54	52	48	61	56	56	48
	L90	**38**	41	38	38	34	35	29	23	21
08:50	Leq	**48**	50	43	42	38	46	39	33	28
	Lmax	**63**	69	59	55	48	62	54	52	43
	L90	**40**	42	38	38	35	38	30	24	22
08:55	Leq	**52**	53	44	42	40	50	45	39	29
	Lmax	**75**	68	55	52	60	74	62	60	46
	L90	**41**	44	39	39	35	39	33	26	23

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
09:00	Leq	**46**	51	45	42	40	44	38	33	29
	Lmax	**63**	64	60	56	54	60	55	52	40
	L90	**40**	44	42	38	35	37	30	25	24
09:05	Leq	**51**	57	57	54	44	46	41	33	25
	Lmax	**73**	75	76	78	64	68	62	52	43
	L90	**41**	42	38	38	35	39	31	23	19
09:10	Leq	**48**	50	43	41	38	46	41	34	23
	Lmax	**66**	62	52	48	54	63	61	51	40
	L90	**40**	42	39	39	35	38	30	23	17
09:15	Leq	**47**	52	43	42	39	45	38	31	22
	Lmax	**70**	68	56	50	52	70	60	51	41
	L90	**40**	45	40	39	35	38	29	22	17
09:20	Leq	**51**	53	46	45	41	49	44	37	22
	Lmax	**69**	66	60	59	57	67	64	55	40
	L90	**41**	45	40	40	36	39	30	21	16
09:25	Leq	**47**	53	45	42	39	44	39	32	22
	Lmax	**62**	69	56	49	49	57	57	51	36
	L90	**39**	45	40	39	34	37	29	21	16
09:30	Leq	**52**	50	43	44	41	50	46	39	27
	Lmax	**75**	63	53	50	49	73	68	61	39
	L90	**42**	46	40	41	37	39	33	26	18
09:35	Leq	**53**	53	46	48	47	49	46	41	34
	Lmax	**61**	73	59	62	53	54	54	54	47
	L90	**47**	45	41	42	41	44	40	34	28
09:40	Leq	**47**	52	44	44	40	44	41	35	29
	Lmax	**66**	65	63	60	57	60	63	51	44
	L90	**42**	44	39	40	37	39	35	30	24
09:45	Leq	**52**	55	49	49	46	49	44	37	31
	Lmax	**71**	70	71	70	67	68	62	57	46
	L90	**43**	47	41	41	38	40	33	28	24
09:50	Leq	**51**	49	44	44	45	48	44	38	32
	Lmax	**59**	61	53	53	51	55	53	50	45
	L90	**48**	44	40	41	42	45	42	36	28
09:55	Leq	**51**	54	54	50	47	47	42	35	30
	Lmax	**72**	74	75	73	72	65	58	49	44
	L90	**44**	45	40	41	39	41	36	31	26
10:00	Leq	**50**	55	46	44	43	48	42	36	29
	Lmax	**66**	70	59	55	52	64	58	54	44
	L90	**45**	47	42	41	39	42	37	29	24
10:05	Leq	**47**	54	45	43	42	44	40	34	29
	Lmax	**69**	71	60	57	59	66	62	56	53
	L90	**41**	46	39	39	36	38	33	27	23
10:10	Leq	**48**	53	44	43	42	45	40	34	29
	Lmax	**64**	70	58	59	58	62	57	51	46
	L90	**40**	44	39	39	35	37	32	27	23
10:15	Leq	**46**	57	46	43	40	43	39	33	29
	Lmax	**62**	77	62	54	52	60	52	49	47
	L90	**40**	46	41	40	36	37	32	26	23
10:20	Leq	**45**	53	46	43	38	42	36	31	29
	Lmax	**62**	68	55	53	48	60	56	49	45
	L90	**38**	46	41	39	34	34	28	24	23
10:25	Leq	**45**	50	44	41	38	42	37	32	28
	Lmax	**64**	65	57	51	49	62	55	54	40
	L90	**39**	45	40	38	34	36	29	24	23
10:30	Leq	**49**	52	46	42	39	47	41	35	28
	Lmax	**68**	65	60	52	48	66	61	54	45
	L90	**41**	46	41	38	36	38	32	25	23
10:35	Leq	**50**	58	48	45	42	48	42	36	28
	Lmax	**66**	72	63	58	61	63	58	54	40
	L90	**42**	52	43	40	37	39	32	27	23
10:40	Leq	**49**	59	52	47	44	46	41	36	30
	Lmax	**64**	76	68	62	57	61	54	47	40
	L90	**44**	47	41	41	39	41	36	30	24
10:45	Leq	**49**	56	48	46	43	46	41	36	29
	Lmax	**64**	72	61	57	61	61	56	51	48
	L90	**45**	48	43	43	39	42	37	31	24
10:50	Leq	**48**	55	48	46	43	45	39	33	29
	Lmax	**64**	70	66	65	60	60	55	47	45
	L90	**43**	48	41	42	38	40	34	27	23
10:55	Leq	**46**	53	45	44	41	43	37	32	28
	Lmax	**57**	64	56	50	52	51	51	47	45
	L90	**43**	47	42	42	38	40	34	28	23

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
11:00	Leq	**49**	57	48	46	44	46	40	35	29
	Lmax	**63**	76	60	57	61	58	55	53	42
	L90	**45**	48	43	42	39	42	36	31	25
11:05	Leq	**50**	57	50	47	45	47	42	38	30
	Lmax	**67**	74	72	66	61	64	55	53	51
	L90	**44**	48	42	42	38	41	35	30	24
11:10	Leq	**50**	56	51	48	45	47	41	35	29
	Lmax	**69**	70	69	65	65	65	61	53	44
	L90	**43**	48	43	42	39	41	35	29	23
11:15	Leq	**50**	58	53	51	47	46	41	36	30
	Lmax	**69**	76	71	69	69	63	57	55	46
	L90	**43**	48	42	42	38	40	36	30	24
11:20	Leq	**49**	53	46	45	44	46	42	37	30
	Lmax	**64**	66	58	52	60	59	58	47	50
	L90	**46**	48	42	43	41	43	38	32	26
11:25	Leq	**50**	56	49	48	45	46	42	37	31
	Lmax	**65**	69	67	64	64	58	57	50	47
	L90	**46**	49	43	44	40	42	38	32	25
11:30	Leq	**49**	55	51	47	44	45	41	36	29
	Lmax	**68**	67	66	64	63	65	60	58	46
	L90	**43**	50	44	43	39	40	34	28	23
11:35	Leq	**46**	54	48	46	42	42	38	32	28
	Lmax	**63**	64	62	56	55	54	60	51	47
	L90	**42**	48	42	42	38	38	33	26	22
11:40	Leq	**53**	54	48	50	52	48	45	37	32
	Lmax	**82**	76	73	77	82	78	74	65	60
	L90	**41**	45	41	41	37	38	33	26	21
11:45	Leq	**46**	53	50	47	44	41	37	31	28
	Lmax	**59**	64	63	61	57	50	46	46	47
	L90	**42**	47	42	42	39	37	33	27	22
11:50	Leq	**53**	56	58	54	47	48	44	38	30
	Lmax	**70**	70	77	71	63	64	63	55	47
	L90	**41**	47	42	41	38	37	33	29	24
11:55	Leq	**51**	53	45	43	40	48	45	38	28
	Lmax	**74**	65	56	60	59	71	69	60	49
	L90	**41**	46	41	39	36	39	32	27	21
12:00	Leq	**50**	55	48	48	46	46	42	34	27
	Lmax	**78**	82	70	76	76	74	72	61	54
	L90	**42**	47	42	41	37	39	32	27	19
12:05	Leq	**47**	54	48	51	42	43	37	31	26
	Lmax	**74**	69	62	82	68	64	59	50	46
	L90	**41**	45	42	41	37	39	31	23	18
12:10	Leq	**45**	53	47	44	41	42	37	31	27
	Lmax	**62**	65	61	55	52	56	57	50	38
	L90	**41**	45	41	40	36	38	30	23	19
12:15	Leq	**46**	54	48	45	41	42	37	32	27
	Lmax	**59**	66	60	64	55	53	47	42	37
	L90	**41**	46	41	40	36	39	32	24	20
12:20	Leq	**46**	54	49	45	41	42	36	31	26
	Lmax	**58**	68	67	59	55	52	50	36	38
	L90	**42**	47	42	40	37	40	32	24	19
12:25	Leq	**49**	55	50	46	42	47	39	34	23
	Lmax	**64**	67	65	55	50	61	58	51	36
	L90	**44**	51	45	43	39	41	33	28	20
12:30	Leq	**50**	57	50	46	43	48	43	38	26
	Lmax	**72**	77	67	59	59	70	63	61	42
	L90	**45**	48	44	43	40	43	34	28	19
12:35	Leq	**52**	57	49	46	45	49	44	39	31
	Lmax	**69**	75	67	58	60	64	66	52	47
	L90	**45**	48	44	42	41	43	35	30	22
12:40	Leq	**52**	56	50	50	48	49	44	38	28
	Lmax	**75**	79	71	73	72	69	69	63	52
	L90	**45**	47	43	42	40	43	35	30	22
12:45	Leq	**55**	55	50	52	50	52	47	41	34
	Lmax	**84**	82	76	83	80	80	76	67	63
	L90	**47**	47	44	43	41	45	39	33	25
12:50	Leq	**48**	56	48	45	42	45	39	33	29
	Lmax	**61**	66	57	55	50	60	51	49	41
	L90	**45**	50	44	43	40	42	36	30	24
12:55	Leq	**48**	54	48	46	43	45	39	32	29
	Lmax	**63**	65	58	58	58	59	57	47	49
	L90	**43**	47	43	42	38	40	33	27	22

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
13:00	Leq	**47**	56	54	49	42	43	38	30	28
	Lmax	**63**	76	73	66	54	56	54	47	43
	L90	**43**	48	46	42	39	39	33	25	21
13:05	Leq	**45**	52	48	46	42	41	35	28	28
	Lmax	**58**	65	57	59	58	50	47	43	44
	L90	**40**	47	42	40	36	37	30	24	22
13:10	Leq	**44**	52	52	43	40	39	33	27	28
	Lmax	**56**	62	68	57	53	46	45	41	42
	L90	**39**	46	40	39	35	36	29	23	22
13:15	Leq	**44**	54	47	44	41	41	34	27	27
	Lmax	**60**	68	65	58	58	56	51	45	43
	L90	**40**	48	42	40	36	37	29	22	21
13:20	Leq	**52**	55	52	52	48	49	43	33	27
	Lmax	**74**	75	72	73	68	71	66	53	41
	L90	**41**	49	43	42	37	39	30	22	19
13:25	Leq	**47**	55	45	42	39	44	40	29	24
	Lmax	**64**	67	61	50	47	61	60	50	40
	L90	**40**	48	42	40	35	37	29	20	16
13:30	Leq	**48**	60	53	48	43	44	41	32	25
	Lmax	**64**	77	66	63	55	60	56	50	41
	L90	**42**	50	44	42	38	38	32	24	17
13:35	Leq	**43**	53	47	42	39	40	34	27	23
	Lmax	**62**	66	59	57	54	57	58	47	38
	L90	**39**	48	42	39	36	35	29	22	18
13:40	Leq	**44**	60	54	44	39	39	32	24	24
	Lmax	**63**	82	76	62	52	52	51	38	40
	L90	**39**	48	42	39	35	35	28	20	18
13:45	Leq	**51**	61	60	49	47	46	40	31	24
	Lmax	**76**	82	83	71	72	73	67	56	46
	L90	**38**	47	42	39	34	34	26	19	16
13:50	Leq	**45**	51	49	45	41	41	35	27	22
	Lmax	**62**	69	69	63	61	55	49	44	38
	L90	**39**	45	40	38	34	36	28	21	15
13:55	Leq	**42**	52	44	41	37	40	33	25	18
	Lmax	**57**	65	52	50	45	52	53	44	35
	L90	**39**	46	41	39	35	36	27	18	14
14:00	Leq	**50**	60	57	51	45	44	40	34	19
	Lmax	**69**	77	72	69	67	62	62	57	39
	L90	**40**	49	45	41	36	37	28	20	15
14:05	Leq	**48**	55	47	45	40	46	39	32	19
	Lmax	**69**	69	61	59	51	69	59	52	37
	L90	**39**	47	42	40	35	36	27	20	14
14:10	Leq	**45**	56	50	44	39	42	34	26	16
	Lmax	**59**	74	67	57	50	56	48	47	30
	L90	**40**	47	42	40	36	37	28	19	13
14:15	Leq	**49**	53	47	48	41	46	43	34	23
	Lmax	**67**	63	58	66	55	63	61	54	42
	L90	**40**	47	42	39	36	38	29	20	14
14:20	Leq	**53**	52	47	44	41	51	47	39	20
	Lmax	**75**	66	64	57	54	72	71	60	38
	L90	**40**	46	42	40	35	37	28	19	13
14:25	Leq	**47**	51	45	42	40	45	40	33	20
	Lmax	**66**	66	58	58	58	63	60	54	36
	L90	**39**	44	40	38	35	37	27	18	13
14:30	Leq	**46**	58	49	44	40	43	38	32	17
	Lmax	**66**	78	70	58	51	59	62	54	34
	L90	**40**	48	42	40	36	38	29	20	13
14:35	Leq	**44**	51	45	42	38	42	34	27	14
	Lmax	**62**	68	59	56	49	62	49	44	30
	L90	**39**	46	42	39	35	36	27	19	13
14:40	Leq	**44**	54	47	42	38	42	35	29	16
	Lmax	**61**	70	65	58	52	58	53	49	35
	L90	**38**	46	41	38	34	35	25	17	13
14:45	Leq	**44**	52	45	43	39	41	35	25	20
	Lmax	**61**	66	60	55	51	58	55	41	41
	L90	**39**	46	41	39	35	36	26	17	13
14:50	Leq	**44**	53	46	43	40	40	34	27	20
	Lmax	**59**	68	62	58	56	54	51	45	42
	L90	**39**	45	41	38	35	36	26	16	13
14:55	Leq	**46**	53	49	47	44	40	35	24	16
	Lmax	**62**	67	64	61	62	51	54	41	34
	L90	**40**	48	43	40	36	36	28	18	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
15:00	Leq	**47**	58	55	48	43	42	38	30	16
	Lmax	**64**	76	72	68	60	56	56	49	30
	L90	**41**	47	43	40	37	38	29	19	13
15:05	Leq	**53**	51	47	47	46	51	46	40	25
	Lmax	**72**	68	64	69	69	69	63	58	50
	L90	**40**	46	41	39	36	37	28	19	13
15:10	Leq	**46**	52	48	44	41	42	39	28	21
	Lmax	**67**	67	64	60	56	60	64	45	41
	L90	**39**	46	41	39	36	37	27	17	13
15:15	Leq	**44**	52	51	42	38	41	35	28	16
	Lmax	**62**	62	71	55	50	59	52	49	42
	L90	**39**	46	42	39	35	36	27	17	13
15:20	Leq	**43**	54	45	41	37	39	36	25	18
	Lmax	**59**	66	58	50	48	49	56	40	37
	L90	**37**	46	41	37	32	33	27	20	13
15:25	Leq	**44**	51	48	42	38	41	37	26	19
	Lmax	**62**	63	68	55	59	57	56	42	39
	L90	**38**	45	41	38	34	35	27	18	13
15:30	Leq	**52**	58	52	49	49	49	41	35	22
	Lmax	**75**	79	70	69	73	72	61	60	43
	L90	**39**	47	42	38	34	35	28	19	13
15:35	Leq	**46**	57	52	46	41	43	37	28	15
	Lmax	**63**	74	71	66	57	57	51	47	31
	L90	**39**	47	42	38	35	36	29	20	13
15:40	Leq	**47**	57	56	48	43	42	36	30	16
	Lmax	**65**	76	76	65	58	59	53	50	34
	L90	**39**	46	42	39	36	36	28	20	13
15:45	Leq	**51**	54	46	43	44	49	44	33	16
	Lmax	**69**	71	57	50	51	68	61	54	37
	L90	**40**	46	41	38	36	37	29	20	13
15:50	Leq	**51**	53	48	45	46	49	44	34	19
	Lmax	**63**	63	61	54	52	58	56	57	36
	L90	**45**	47	44	42	40	43	35	25	13
15:55	Leq	**51**	52	46	46	45	49	44	32	17
	Lmax	**66**	67	59	62	58	65	54	53	34
	L90	**43**	46	42	41	38	41	34	24	13
16:00	Leq	**49**	53	49	45	44	47	42	29	16
	Lmax	**60**	66	67	61	58	53	49	46	34
	L90	**42**	46	43	41	38	40	32	23	13
16:05	Leq	**51**	55	50	47	46	48	43	30	15
	Lmax	**62**	70	66	63	55	59	54	42	33
	L90	**48**	46	45	42	43	46	40	26	13
16:10	Leq	**50**	55	47	44	43	48	42	32	16
	Lmax	**67**	73	56	50	50	62	64	55	35
	L90	**41**	48	44	41	37	38	29	20	13
16:15	Leq	**49**	51	45	43	43	47	41	27	14
	Lmax	**60**	69	58	59	49	58	50	42	34
	L90	**41**	45	40	40	38	39	30	21	13
16:20	Leq	**48**	56	51	47	45	45	38	27	15
	Lmax	**66**	73	73	63	67	60	49	40	32
	L90	**41**	47	44	41	38	39	29	21	13
16:25	Leq	**50**	56	46	43	43	47	42	31	16
	Lmax	**66**	73	57	54	50	62	61	54	36
	L90	**41**	48	42	40	37	38	29	20	13
16:30	Leq	**50**	50	44	43	45	48	43	32	16
	Lmax	**63**	64	53	50	50	61	57	52	38
	L90	**44**	44	41	41	41	41	33	23	13
16:35	Leq	**50**	55	50	46	45	47	41	30	17
	Lmax	**62**	70	69	63	56	56	54	46	37
	L90	**44**	47	42	42	39	42	34	25	13
16:40	Leq	**51**	52	46	45	45	48	43	34	26
	Lmax	**64**	65	58	66	61	59	55	54	50
	L90	**46**	46	43	42	41	44	37	26	13
16:45	Leq	**52**	51	46	45	46	49	45	35	19
	Lmax	**67**	67	55	54	52	62	63	58	40
	L90	**47**	45	43	43	43	45	38	26	13
16:50	Leq	**50**	56	55	49	45	47	41	31	18
	Lmax	**64**	73	71	65	59	61	54	49	39
	L90	**44**	47	44	42	39	41	32	21	13
16:55	Leq	**51**	52	48	45	45	48	43	33	20
	Lmax	**64**	71	61	61	63	57	56	50	41
	L90	**45**	46	44	42	40	42	35	25	14

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
17:00	Leq	**50**	55	50	47	46	47	41	30	19
	Lmax	**63**	72	73	62	63	54	50	45	41
	L90	**44**	46	43	42	40	42	34	26	15
17:05	Leq	**50**	56	50	46	43	48	40	33	19
	Lmax	**72**	70	67	59	63	71	58	53	37
	L90	**44**	47	44	43	39	41	33	25	15
17:10	Leq	**50**	52	47	45	42	49	41	32	18
	Lmax	**68**	65	60	54	54	64	63	51	39
	L90	**42**	44	43	41	38	40	31	23	14
17:15	Leq	**48**	56	54	49	42	44	39	31	15
	Lmax	**66**	76	75	68	62	58	60	48	33
	L90	**41**	48	42	40	37	38	29	20	13
17:20	Leq	**50**	57	56	50	45	47	41	33	17
	Lmax	**73**	77	80	67	67	69	65	53	35
	L90	**42**	49	45	42	39	39	31	22	13
17:25	Leq	**51**	55	53	48	43	47	45	39	16
	Lmax	**73**	72	68	67	59	69	69	63	37
	L90	**41**	49	43	41	38	38	31	21	13
17:30	Leq	**44**	51	46	42	40	41	33	25	16
	Lmax	**56**	66	63	57	51	51	46	41	39
	L90	**39**	44	41	38	36	36	27	19	13
17:35	Leq	**48**	53	50	46	43	45	39	32	16
	Lmax	**64**	66	68	62	59	59	57	51	29
	L90	**42**	47	43	41	38	39	30	21	13
17:40	Leq	**46**	54	47	43	40	43	37	29	17
	Lmax	**63**	65	60	55	49	61	57	49	44
	L90	**41**	48	42	40	37	38	30	20	13
17:45	Leq	**46**	53	46	44	40	43	36	28	15
	Lmax	**67**	66	61	61	56	64	61	51	31
	L90	**41**	47	42	40	36	38	29	19	13
17:50	Leq	**46**	54	46	43	40	43	38	31	18
	Lmax	**64**	69	59	55	52	60	60	55	42
	L90	**41**	47	42	40	37	39	30	19	13
17:55	Leq	**51**	53	50	50	49	45	42	39	27
	Lmax	**75**	69	71	75	73	65	68	65	52
	L90	**41**	47	43	41	38	37	28	19	13
18:00	Leq	**52**	54	52	50	48	50	43	36	20
	Lmax	**72**	68	70	68	66	70	64	56	39
	L90	**41**	47	43	41	37	38	29	19	13
18:05	Leq	**44**	50	44	42	40	41	34	24	15
	Lmax	**59**	60	54	54	53	52	55	40	31
	L90	**40**	44	41	39	35	37	28	18	13
18:10	Leq	**48**	57	50	45	40	45	40	34	16
	Lmax	**67**	73	67	62	50	63	62	58	33
	L90	**41**	48	42	40	37	38	29	19	13
18:15	Leq	**46**	54	50	46	41	43	36	27	16
	Lmax	**63**	69	68	65	53	60	52	49	30
	L90	**41**	48	44	41	37	38	29	20	13
18:20	Leq	**45**	55	49	43	40	42	35	26	15
	Lmax	**60**	72	69	57	51	56	52	43	34
	L90	**40**	46	42	40	37	38	28	19	13
18:25	Leq	**46**	58	53	46	41	42	35	27	15
	Lmax	**61**	73	71	64	55	56	49	45	34
	L90	**41**	46	41	40	36	38	29	19	13
18:30	Leq	**45**	54	52	45	41	41	34	25	15
	Lmax	**61**	69	72	58	57	52	52	42	26
	L90	**39**	46	41	39	35	37	28	18	13
18:35	Leq	**46**	57	48	44	41	42	38	26	17
	Lmax	**65**	76	64	64	64	61	56	43	35
	L90	**38**	47	42	38	34	35	27	18	13
18:40	Leq	**49**	55	56	51	45	44	37	31	16
	Lmax	**69**	74	78	68	66	62	58	49	31
	L90	**37**	46	42	38	34	34	27	19	13
18:45	Leq	**49**	58	54	48	48	44	37	30	16
	Lmax	**68**	73	71	66	68	63	56	49	32
	L90	**39**	50	43	40	36	36	28	21	13
18:50	Leq	**52**	63	58	51	51	48	41	34	22
	Lmax	**78**	85	80	73	75	75	68	61	49
	L90	**39**	47	41	39	35	35	28	19	13
18:55	Leq	**52**	57	53	49	48	50	44	37	23
	Lmax	**79**	79	76	72	73	76	72	66	51
	L90	**38**	46	42	39	34	34	27	18	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
19:00	Leq	**47**	57	55	51	44	40	35	28	17
	Lmax	**68**	72	75	72	67	59	51	45	33
	L90	**36**	45	40	36	32	32	25	18	13
19:05	Leq	**48**	57	56	52	44	41	36	27	15
	Lmax	**66**	73	75	70	64	56	53	41	30
	L90	**37**	49	39	37	33	33	26	18	13
19:10	Leq	**48**	56	51	50	43	44	39	32	16
	Lmax	**69**	76	67	75	62	63	58	54	38
	L90	**36**	44	41	38	32	33	25	16	13
19:15	Leq	**48**	59	56	49	47	43	36	28	16
	Lmax	**63**	77	71	66	62	55	49	42	28
	L90	**39**	47	43	39	35	36	27	19	13
19:20	Leq	**52**	55	57	56	47	46	40	33	18
	Lmax	**71**	70	76	76	68	62	56	54	38
	L90	**39**	46	41	39	34	37	29	19	13
19:25	Leq	**42**	51	42	40	36	39	33	25	14
	Lmax	**55**	66	52	48	49	49	51	42	27
	L90	**35**	41	38	36	31	32	24	15	13
19:30	Leq	**49**	58	54	48	41	46	40	34	18
	Lmax	**69**	76	71	66	60	65	63	54	36
	L90	**36**	41	38	36	31	33	23	18	13
19:35	Leq	**47**	59	51	48	43	43	37	32	20
	Lmax	**65**	78	70	68	62	57	54	51	38
	L90	**38**	46	41	39	34	35	26	18	13
19:40	Leq	**52**	60	61	53	43	48	38	36	19
	Lmax	**78**	80	79	71	62	77	63	64	42
	L90	**38**	48	42	39	35	35	26	18	13
19:45	Leq	**44**	57	52	45	40	40	33	26	15
	Lmax	**64**	74	72	66	58	56	56	49	37
	L90	**37**	46	40	37	32	34	24	15	13
19:50	Leq	**46**	55	46	42	39	44	38	34	19
	Lmax	**65**	75	63	55	52	61	59	55	38
	L90	**36**	48	37	36	32	34	25	18	13
19:55	Leq	**49**	60	55	51	45	43	38	33	16
	Lmax	**70**	77	76	69	66	65	62	53	33
	L90	**34**	41	38	35	31	31	22	15	13
20:00	Leq	**48**	55	50	44	41	45	41	35	18
	Lmax	**67**	76	68	61	62	63	60	58	37
	L90	**38**	40	38	36	31	36	28	20	13
20:05	Leq	**44**	55	47	42	40	41	34	27	14
	Lmax	**59**	68	65	56	52	56	50	43	25
	L90	**35**	40	37	35	31	32	22	16	13
20:10	Leq	**46**	53	49	46	43	42	35	28	15
	Lmax	**69**	75	67	62	58	68	56	50	31
	L90	**38**	46	41	37	35	34	27	20	13
20:15	Leq	**51**	50	48	44	39	48	45	39	20
	Lmax	**73**	67	62	58	51	67	69	63	43
	L90	**36**	44	41	37	34	32	24	18	13
20:20	Leq	**51**	59	53	47	40	49	43	37	17
	Lmax	**73**	81	71	66	62	70	67	58	37
	L90	**35**	42	37	35	31	32	23	15	13
20:25	Leq	**56**	59	66	60	53	46	39	31	18
	Lmax	**81**	85	93	85	77	68	62	51	41
	L90	**36**	41	37	36	33	34	25	16	13
20:30	Leq	**44**	51	44	42	39	42	35	28	15
	Lmax	**62**	66	61	58	57	56	56	49	33
	L90	**35**	40	36	36	32	32	22	15	13
20:35	Leq	**46**	54	54	48	39	41	37	27	13
	Lmax	**64**	71	74	68	58	53	57	43	24
	L90	**35**	40	37	35	31	32	21	14	12
20:40	Leq	**47**	51	43	40	37	45	40	32	16
	Lmax	**63**	64	54	48	46	60	59	48	33
	L90	**36**	41	38	36	31	33	25	19	13
20:45	Leq	**49**	50	42	40	38	46	43	37	22
	Lmax	**67**	66	55	49	49	64	62	58	44
	L90	**38**	42	38	36	33	36	26	18	13
20:50	Leq	**47**	51	45	41	38	46	39	32	15
	Lmax	**63**	69	62	51	53	62	54	50	32
	L90	**39**	43	39	37	34	37	27	17	13
20:55	Leq	**49**	60	58	53	43	43	38	31	16
	Lmax	**68**	80	76	71	62	56	61	50	34
	L90	**38**	43	39	37	33	36	26	17	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
21:00	Leq	**44**	48	44	41	37	41	34	26	14
	Lmax	**60**	60	57	50	50	56	54	49	29
	L90	**38**	42	39	37	34	35	25	16	13
21:05	Leq	**45**	53	51	49	41	40	32	26	14
	Lmax	**66**	72	72	72	64	53	46	44	25
	L90	**37**	45	37	36	32	34	23	15	12
21:10	Leq	**49**	54	55	49	41	45	40	32	15
	Lmax	**69**	73	76	73	65	60	61	55	33
	L90	**37**	44	38	36	33	35	25	18	13
21:15	Leq	**42**	47	40	39	34	40	34	28	15
	Lmax	**57**	61	52	46	43	55	49	45	30
	L90	**37**	38	36	36	31	35	24	15	13
21:20	Leq	**41**	45	39	39	35	39	30	23	13
	Lmax	**57**	58	47	45	53	56	46	43	30
	L90	**36**	39	36	36	31	34	22	14	12
21:25	Leq	**45**	53	47	45	42	42	34	24	14
	Lmax	**70**	75	70	70	68	66	59	50	36
	L90	**37**	41	37	37	32	35	24	14	12
21:30	Leq	**45**	53	52	46	40	41	34	28	14
	Lmax	**62**	68	69	66	56	57	51	45	22
	L90	**37**	43	38	37	32	34	24	16	13
21:35	Leq	**42**	51	44	40	38	40	31	20	13
	Lmax	**61**	64	57	49	55	58	56	34	27
	L90	**38**	43	38	37	34	36	25	15	13
21:40	Leq	**43**	49	44	41	39	40	32	24	14
	Lmax	**62**	63	61	54	56	60	50	43	25
	L90	**38**	41	38	36	33	36	23	13	12
21:45	Leq	**43**	53	50	46	39	38	30	21	15
	Lmax	**59**	65	69	64	55	46	38	37	39
	L90	**35**	43	38	37	31	33	21	13	12
21:50	Leq	**44**	45	40	38	35	43	36	30	14
	Lmax	**66**	61	52	48	50	63	59	58	35
	L90	**36**	38	37	35	31	34	21	12	12
21:55	Leq	**52**	58	60	54	51	46	38	31	17
	Lmax	**78**	75	83	75	79	73	64	57	42
	L90	**36**	39	37	35	31	34	21	12	12
22:00	Leq	**43**	54	52	45	37	39	29	19	13
	Lmax	**63**	76	77	67	55	48	44	39	26
	L90	**36**	37	36	35	30	34	21	12	12
22:05	Leq	**43**	51	48	43	38	40	30	22	13
	Lmax	**62**	72	71	60	53	59	46	45	31
	L90	**37**	40	37	36	32	35	22	12	12
22:10	Leq	**43**	47	42	42	39	41	30	19	13
	Lmax	**57**	65	57	54	53	55	44	40	28
	L90	**38**	38	37	36	32	36	24	12	12
22:15	Leq	**46**	53	55	50	40	40	33	24	13
	Lmax	**65**	70	74	70	59	55	52	44	27
	L90	**36**	39	37	37	31	34	22	12	12
22:20	Leq	**43**	52	52	44	37	40	29	20	13
	Lmax	**61**	73	73	63	52	55	49	40	25
	L90	**36**	39	38	37	31	34	21	12	12
22:25	Leq	**45**	54	54	46	38	42	32	27	13
	Lmax	**65**	70	73	63	53	63	55	53	29
	L90	**37**	43	41	38	33	34	23	13	12
22:30	Leq	**40**	51	43	40	36	38	29	18	13
	Lmax	**51**	67	53	56	43	46	38	28	19
	L90	**37**	42	39	37	33	34	23	13	12
22:35	Leq	**40**	46	39	39	35	37	27	17	13
	Lmax	**48**	59	50	48	43	46	37	31	16
	L90	**36**	41	36	36	32	33	23	13	12
22:40	Leq	**38**	44	42	39	35	35	26	17	13
	Lmax	**50**	57	52	48	50	44	37	40	23
	L90	**34**	38	37	36	31	31	21	12	12
22:45	Leq	**39**	43	43	40	34	36	26	19	13
	Lmax	**54**	54	53	51	44	52	39	41	20
	L90	**34**	37	36	36	30	30	20	12	12
22:50	Leq	**53**	44	41	40	35	51	44	39	24
	Lmax	**75**	62	51	51	50	73	64	65	53
	L90	**35**	38	37	36	31	32	23	15	12
22:55	Leq	**38**	45	40	38	32	35	26	17	13
	Lmax	**54**	65	49	45	40	52	46	34	18
	L90	**33**	37	37	36	30	30	20	12	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
23:00	Leq	**38**	46	41	39	33	35	26	17	13
	Lmax	**48**	62	51	51	43	44	37	28	18
	L90	**34**	39	37	36	30	31	21	12	12
23:05	Leq	**43**	46	45	42	39	41	33	26	14
	Lmax	**61**	58	65	62	57	56	51	48	26
	L90	**37**	40	38	38	33	34	22	13	12
23:10	Leq	**44**	47	41	40	36	43	34	27	13
	Lmax	**60**	63	54	49	45	59	49	46	29
	L90	**37**	39	37	37	33	34	23	13	12
23:15	Leq	**41**	46	43	41	36	39	26	15	13
	Lmax	**58**	61	52	49	47	57	36	29	21
	L90	**37**	42	39	38	34	34	23	13	12
23:20	Leq	**41**	47	42	40	36	39	30	20	13
	Lmax	**54**	63	53	50	49	51	46	36	29
	L90	**37**	39	36	36	32	34	22	12	12
23:25	Leq	**41**	46	41	41	37	38	27	16	13
	Lmax	**54**	64	55	59	51	48	41	31	20
	L90	**37**	38	36	35	32	35	21	12	12
23:30	Leq	**47**	53	48	47	44	43	35	31	18
	Lmax	**71**	76	72	70	67	67	61	61	42
	L90	**36**	38	36	35	32	34	20	11	12
23:35	Leq	**46**	57	51	46	43	42	33	24	18
	Lmax	**67**	76	74	68	66	62	53	47	40
	L90	**37**	39	37	35	32	35	22	12	12
23:40	Leq	**42**	49	45	47	36	37	25	15	13
	Lmax	**58**	70	63	65	48	49	37	26	24
	L90	**35**	37	36	35	30	32	20	11	12
23:45	Leq	**40**	46	43	40	35	37	28	21	13
	Lmax	**53**	61	58	51	48	47	46	47	23
	L90	**35**	37	36	37	32	32	20	12	12
23:50	Leq	**41**	41	39	39	36	39	30	23	13
	Lmax	**56**	54	46	45	49	51	53	43	26
	L90	**37**	38	37	37	33	35	22	12	12
23:55	Leq	**45**	49	47	44	38	43	33	28	15
	Lmax	**71**	67	62	59	60	70	60	58	43
	L90	**37**	40	39	39	32	34	21	12	12
00:00	Leq	**40**	45	41	41	36	38	26	15	13
	Lmax	**52**	62	50	48	44	49	46	34	32
	L90	**36**	37	39	39	32	33	20	11	12
00:05	Leq	**41**	49	45	42	36	37	27	17	13
	Lmax	**52**	65	57	55	48	46	41	32	20
	L90	**36**	40	39	39	32	32	20	12	12
00:10	Leq	**37**	43	40	39	32	34	24	15	13
	Lmax	**46**	56	51	45	41	44	36	28	18
	L90	**33**	38	37	37	29	29	19	12	12
00:15	Leq	**40**	49	44	42	37	37	26	17	13
	Lmax	**55**	66	66	54	48	49	45	39	25
	L90	**35**	39	37	37	30	32	20	12	12
00:20	Leq	**42**	48	44	43	39	38	31	20	13
	Lmax	**59**	69	64	57	57	55	51	38	29
	L90	**35**	38	38	38	32	30	19	12	12
00:25	Leq	**38**	45	44	39	36	34	26	17	13
	Lmax	**56**	57	49	48	55	51	47	39	32
	L90	**36**	42	40	38	34	32	23	15	12
00:30	Leq	**42**	52	51	45	38	35	28	19	13
	Lmax	**57**	67	64	63	51	48	40	30	21
	L90	**35**	44	43	35	32	30	22	15	12
00:35	Leq	**48**	45	43	38	35	46	40	37	17
	Lmax	**72**	48	46	43	49	71	63	61	41
	L90	**35**	44	42	36	32	31	22	15	12
00:40	Leq	**43**	45	43	40	36	40	35	27	13
	Lmax	**64**	59	53	50	48	60	60	49	32
	L90	**34**	36	36	36	30	30	22	15	12
00:45	Leq	**39**	43	39	39	35	36	29	21	13
	Lmax	**61**	64	56	50	56	58	55	46	27
	L90	**33**	35	37	37	29	28	20	12	12
00:50	Leq	**39**	47	41	40	35	36	29	21	13
	Lmax	**57**	63	57	58	48	53	47	45	26
	L90	**34**	41	38	36	31	29	22	13	12
00:55	Leq	**35**	44	39	37	32	31	24	15	13
	Lmax	**45**	60	48	46	38	40	35	35	21
	L90	**33**	39	36	35	31	29	22	13	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
01:00	Leq	**33**	40	36	35	29	30	22	14	13
	Lmax	**45**	56	49	46	40	41	35	28	24
	L90	**30**	33	32	33	27	25	17	11	12
01:05	Leq	**38**	42	40	38	35	35	29	21	13
	Lmax	**56**	57	58	55	56	49	46	40	24
	L90	**30**	34	33	33	27	25	17	12	12
01:10	Leq	**38**	43	40	38	34	36	26	15	13
	Lmax	**48**	55	55	48	45	44	35	31	22
	L90	**35**	40	34	35	32	32	22	13	12
01:15	Leq	**40**	48	45	38	33	38	29	20	13
	Lmax	**58**	67	63	53	43	56	49	41	24
	L90	**34**	38	36	35	30	31	20	12	12
01:20	Leq	**37**	45	44	36	32	34	24	15	13
	Lmax	**56**	65	65	49	43	54	38	37	22
	L90	**31**	36	34	33	28	28	18	11	12
01:25	Leq	**37**	40	37	36	34	35	22	13	12
	Lmax	**47**	51	46	42	42	45	33	26	14
	L90	**33**	35	34	34	30	30	18	11	12
01:30	Leq	**37**	36	35	35	34	34	27	16	12
	Lmax	**52**	45	41	44	50	47	46	32	20
	L90	**31**	34	33	33	29	28	17	11	12
01:35	Leq	**36**	39	36	34	30	34	27	17	13
	Lmax	**54**	52	48	44	43	52	49	36	23
	L90	**29**	34	32	31	26	25	17	11	12
01:40	Leq	**39**	45	38	38	34	36	27	18	13
	Lmax	**58**	59	51	50	44	58	39	32	23
	L90	**34**	39	34	34	31	30	22	13	12
01:45	Leq	**37**	41	41	39	32	34	25	14	12
	Lmax	**51**	55	58	55	45	47	39	28	19
	L90	**29**	34	33	32	26	25	17	11	12
01:50	Leq	**37**	40	39	39	34	33	25	16	12
	Lmax	**52**	54	54	56	50	46	39	33	20
	L90	**31**	35	34	34	28	27	18	11	12
01:55	Leq	**41**	43	43	42	39	36	29	16	13
	Lmax	**57**	59	58	57	57	49	46	32	18
	L90	**33**	35	34	35	29	29	19	12	12
02:00	Leq	**38**	39	37	37	32	35	29	21	13
	Lmax	**53**	53	47	47	42	50	46	40	19
	L90	**31**	35	33	35	28	27	17	12	12
02:05	Leq	**48**	43	36	37	32	47	41	35	14
	Lmax	**75**	59	48	51	44	72	69	61	34
	L90	**32**	36	33	35	29	29	19	12	12
02:10	Leq	**40**	41	35	36	33	37	34	25	13
	Lmax	**60**	63	48	46	49	55	56	48	32
	L90	**31**	34	33	35	29	27	18	12	12
02:15	Leq	**49**	40	36	36	35	46	43	38	20
	Lmax	**67**	52	53	47	50	64	62	58	42
	L90	**34**	35	34	34	31	32	22	15	13
02:20	Leq	**44**	38	35	35	32	43	36	29	13
	Lmax	**66**	49	44	40	42	63	57	58	33
	L90	**34**	34	34	34	29	31	20	14	12
02:25	Leq	**37**	43	37	37	32	34	26	17	13
	Lmax	**47**	62	49	43	40	44	40	33	17
	L90	**33**	35	34	34	29	29	19	12	12
02:30	Leq	**45**	42	39	37	32	44	36	30	14
	Lmax	**65**	62	48	45	44	64	55	48	30
	L90	**33**	35	36	35	29	29	19	12	12
02:35	Leq	**43**	38	37	36	32	42	35	28	15
	Lmax	**64**	51	43	42	47	61	59	53	33
	L90	**33**	35	33	32	28	31	22	14	12
02:40	Leq	**49**	37	34	34	35	45	44	37	22
	Lmax	**75**	50	47	43	58	68	72	65	49
	L90	**32**	34	32	31	27	29	20	13	12
02:45	Leq	**42**	37	35	35	32	41	34	28	15
	Lmax	**61**	48	41	43	42	58	55	48	35
	L90	**32**	34	33	32	28	30	19	12	12
02:50	Leq	**50**	44	38	37	34	49	40	35	17
	Lmax	**67**	65	50	45	47	66	54	52	36
	L90	**37**	35	34	33	29	35	27	18	12
02:55	Leq	**51**	39	37	38	36	48	45	38	20
	Lmax	**71**	49	43	42	51	69	64	59	40
	L90	**38**	36	35	37	31	36	28	20	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
03:00	Leq	**49**	38	36	37	33	48	41	37	18
	Lmax	**72**	45	43	42	48	68	67	64	38
	L90	**36**	34	35	36	30	35	25	17	12
03:05	Leq	**44**	42	37	37	33	43	35	32	15
	Lmax	**66**	58	48	44	50	64	56	58	35
	L90	**34**	35	35	35	29	32	23	13	12
03:10	Leq	**45**	41	37	37	32	43	36	30	14
	Lmax	**72**	54	51	45	43	71	59	53	34
	L90	**33**	35	32	34	29	30	21	13	12
03:15	Leq	**45**	42	39	41	33	43	34	31	14
	Lmax	**68**	56	48	46	46	66	57	58	31
	L90	**35**	38	36	38	31	32	22	13	12
03:20	Leq	**43**	44	37	39	33	41	35	27	13
	Lmax	**64**	59	47	44	40	62	56	48	27
	L90	**35**	37	35	37	31	32	22	12	12
03:25	Leq	**48**	39	37	40	33	45	41	37	17
	Lmax	**67**	50	50	45	44	65	61	59	38
	L90	**35**	36	36	38	31	30	21	13	12
03:30	Leq	**49**	41	37	39	35	48	40	35	19
	Lmax	**72**	53	42	43	52	71	63	63	43
	L90	**37**	36	35	38	32	34	26	17	13
03:35	Leq	**47**	39	36	38	34	45	40	36	16
	Lmax	**72**	53	45	44	42	69	66	61	36
	L90	**35**	36	35	36	31	32	22	13	12
03:40	Leq	**44**	40	37	37	35	42	37	31	16
	Lmax	**66**	51	47	47	46	64	60	58	40
	L90	**35**	37	34	35	32	32	21	13	12
03:45	Leq	**46**	40	36	37	35	44	40	31	15
	Lmax	**67**	54	45	47	41	64	62	51	36
	L90	**36**	35	33	34	31	35	23	13	12
03:50	Leq	**45**	39	36	37	36	43	39	30	16
	Lmax	**66**	50	45	45	49	64	60	51	38
	L90	**35**	35	33	35	32	33	22	13	12
03:55	Leq	**41**	41	36	38	34	39	35	26	14
	Lmax	**59**	55	48	48	41	56	54	46	27
	L90	**35**	36	34	36	32	32	21	15	12
04:00	Leq	**40**	42	37	38	34	38	33	25	14
	Lmax	**59**	60	48	43	46	58	51	47	34
	L90	**34**	36	34	36	32	31	21	13	12
04:05	Leq	**49**	46	40	38	35	45	45	37	17
	Lmax	**72**	64	56	44	44	66	68	61	37
	L90	**35**	37	37	36	32	32	22	16	13
04:10	Leq	**47**	45	40	38	35	45	39	34	17
	Lmax	**73**	59	53	48	48	72	61	64	43
	L90	**35**	36	36	35	31	32	23	15	13
04:15	Leq	**45**	43	37	37	35	42	39	32	14
	Lmax	**63**	58	46	45	50	60	57	51	30
	L90	**34**	37	34	34	31	32	22	14	12
04:20	Leq	**46**	43	38	37	35	44	41	31	16
	Lmax	**69**	57	49	51	49	65	66	54	41
	L90	**35**	38	34	35	32	33	23	15	13
04:25	Leq	**45**	47	41	38	35	44	37	31	14
	Lmax	**60**	65	56	50	42	58	53	49	28
	L90	**37**	38	35	34	32	35	26	16	13
04:30	Leq	**42**	45	42	38	36	39	34	28	15
	Lmax	**57**	60	54	46	47	54	51	48	32
	L90	**36**	40	36	36	33	34	24	14	12
04:35	Leq	**45**	44	37	37	35	43	38	29	14
	Lmax	**60**	58	48	48	45	56	55	46	30
	L90	**37**	40	35	35	33	34	24	14	12
04:40	Leq	**49**	46	39	38	35	47	42	35	18
	Lmax	**69**	61	46	47	47	66	62	59	45
	L90	**37**	41	36	36	33	35	26	17	13
04:45	Leq	**49**	47	42	43	39	47	41	35	19
	Lmax	**67**	59	55	59	57	63	62	54	45
	L90	**37**	41	37	36	33	34	25	15	13
04:50	Leq	**44**	44	38	38	34	42	35	29	14
	Lmax	**59**	62	46	44	41	58	52	48	25
	L90	**35**	39	36	36	31	33	23	14	12
04:55	Leq	**42**	42	39	39	36	40	31	26	13
	Lmax	**60**	55	47	48	46	59	49	47	25
	L90	**35**	39	37	36	31	31	24	13	12

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
05:00	Leq	**48**	44	40	42	36	46	41	34	16
	Lmax	**68**	57	49	52	46	63	64	54	34
	L90	**37**	40	37	39	33	34	24	16	12
05:05	Leq	**42**	44	42	40	35	39	34	26	14
	Lmax	**58**	59	58	51	43	54	53	47	25
	L90	**36**	40	37	36	33	33	23	13	12
05:10	Leq	**45**	46	42	40	37	43	36	28	14
	Lmax	**61**	60	57	54	49	59	55	46	33
	L90	**37**	40	38	37	33	34	25	15	13
05:15	Leq	**44**	45	41	40	37	41	39	29	15
	Lmax	**60**	61	56	56	48	56	55	45	29
	L90	**36**	40	37	36	33	33	23	14	12
05:20	Leq	**47**	49	44	42	37	44	41	33	18
	Lmax	**65**	68	57	53	51	60	61	55	40
	L90	**38**	42	39	38	33	35	24	17	13
05:25	Leq	**43**	48	43	41	37	41	35	28	15
	Lmax	**64**	60	55	59	54	62	57	51	37
	L90	**38**	41	39	38	34	36	26	16	13
05:30	Leq	**47**	47	43	42	38	43	41	36	19
	Lmax	**66**	60	56	53	52	62	61	59	38
	L90	**38**	41	37	38	34	35	26	16	13
05:35	Leq	**49**	57	49	47	44	46	40	34	22
	Lmax	**68**	75	65	60	55	66	61	56	49
	L90	**40**	44	41	39	35	38	30	22	13
05:40	Leq	**47**	50	46	44	38	44	41	35	19
	Lmax	**63**	64	55	55	46	59	57	54	34
	L90	**39**	42	38	39	35	36	27	19	13
05:45	Leq	**45**	46	43	41	37	43	37	29	14
	Lmax	**61**	58	53	49	46	59	53	47	27
	L90	**38**	40	37	38	34	36	25	14	12
05:50	Leq	**47**	54	50	47	40	44	37	30	14
	Lmax	**64**	72	67	60	53	61	59	52	26
	L90	**40**	43	40	40	36	37	25	14	12
05:55	Leq	**48**	49	43	41	38	46	40	38	22
	Lmax	**70**	65	53	49	57	67	62	62	46
	L90	**39**	42	39	39	35	36	24	14	12
06:00	Leq									
	Lmax									
	L90									
06:05	Leq	**43**	55	53	45	38	38	31	22	14
	Lmax	**58**	76	66	60	52	52	45	37	34
	L90	**37**	41	37	37	34	34	23	15	12
06:10	Leq	**44**	49	53	42	37	41	34	30	14
	Lmax	**64**	65	72	59	43	60	58	53	33
	L90	**37**	41	38	37	35	34	22	13	12
06:15	Leq	**41**	47	43	40	36	39	30	24	13
	Lmax	**56**	59	61	48	46	55	43	42	29
	L90	**37**	41	37	37	34	35	22	13	12
06:20	Leq	**43**	50	44	42	39	40	35	28	16
	Lmax	**59**	63	54	57	47	56	53	47	31
	L90	**38**	43	40	38	36	36	25	17	13
06:25	Leq	**47**	51	47	45	41	44	39	32	23
	Lmax	**66**	65	59	59	52	59	62	56	53
	L90	**39**	45	41	39	36	37	28	17	13
06:30	Leq	**46**	52	49	44	40	43	36	32	17
	Lmax	**65**	73	60	54	50	63	57	58	36
	L90	**39**	44	41	39	35	37	25	14	13
06:35	Leq	**49**	48	48	49	47	46	39	32	16
	Lmax	**71**	64	67	74	70	65	57	54	36
	L90	**40**	44	42	39	36	38	25	14	13
06:40	Leq	**50**	50	46	44	40	49	43	35	21
	Lmax	**72**	64	60	55	48	68	68	57	46
	L90	**41**	45	42	41	37	39	28	17	13
06:45	Leq	**46**	49	46	43	39	44	38	33	18
	Lmax	**64**	62	61	53	51	62	57	56	37
	L90	**40**	44	41	39	37	38	25	16	13
06:50	Leq	**45**	50	44	41	39	43	37	32	18
	Lmax	**62**	64	57	48	45	57	58	54	38
	L90	**40**	45	40	39	37	38	27	17	13
06:55	Leq	**45**	51	45	42	40	43	37	31	15
	Lmax	**62**	64	59	54	51	57	58	52	31
	L90	**40**	45	41	39	37	38	26	14	13

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
07:00	Leq	**48**	53	48	46	43	45	40	33	22
	Lmax	**67**	71	64	63	57	61	62	58	50
	L90	**41**	45	41	40	38	38	26	16	13
07:05	Leq	**45**	51	44	42	40	42	38	31	18
	Lmax	**62**	67	62	58	55	58	54	56	41
	L90	**40**	44	41	39	37	37	27	16	13
07:10	Leq	**44**	49	44	42	39	42	35	28	15
	Lmax	**59**	63	53	55	51	57	49	48	32
	L90	**39**	44	41	39	36	36	26	16	13
07:15	Leq	**43**	49	43	42	40	40	34	26	16
	Lmax	**59**	62	53	48	51	57	50	45	34
	L90	**39**	43	40	40	38	36	25	16	13
07:20	Leq	**44**	54	46	43	40	41	35	27	17
	Lmax	**61**	67	58	53	55	57	54	45	36
	L90	**38**	44	41	39	35	36	26	17	13
07:25	Leq	**50**	53	48	46	43	44	46	41	36
	Lmax	**76**	66	67	57	63	63	73	69	66
	L90	**40**	47	43	40	37	36	29	19	13
07:30	Leq	**54**	55	55	54	48	50	47	41	28
	Lmax	**73**	74	70	73	70	68	65	60	46
	L90	**46**	48	46	44	43	43	37	30	20
07:35	Leq	**50**	53	55	53	46	45	40	34	23
	Lmax	**63**	73	68	64	60	56	53	51	39
	L90	**47**	46	53	51	43	41	37	29	20
07:40	Leq	**57**	57	56	55	54	52	50	43	38
	Lmax	**86**	84	77	83	83	82	80	71	69
	L90	**47**	47	53	50	43	42	38	31	21
07:45	Leq	**52**	53	54	53	49	47	43	36	31
	Lmax	**76**	78	72	75	76	69	66	57	52
	L90	**47**	47	52	50	43	43	38	31	22
07:50	Leq	**53**	56	55	53	49	49	44	37	28
	Lmax	**74**	72	69	69	68	71	67	58	43
	L90	**48**	48	53	50	44	43	38	31	22
07:55	Leq	**52**	54	55	52	49	47	43	36	28
	Lmax	**67**	68	63	65	62	64	58	54	51
	L90	**48**	47	52	50	46	42	38	31	21
08:00	0	**0**	0	0	0	0	0	0	0	0
	0	**0**	0	0	0	0	0	0	0	0
	0	**0**	0	0	0	0	0	0	0	0

Time Period	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Overall Daytime	Leq	**49**	56	51	47	44	46	41	35	27
	Lmax	**71**	75	70	68	67	67	64	57	51
	L90	**43**	47	43	41	38	40	33	26	20
Overall Evening	Leq	**48**	57	54	49	44	45	38	31	17
	Lmax	**70**	76	76	69	66	66	59	54	39
	L90	**41**	46	42	39	36	39	28	18	13
Overall Night Time	Leq	**46**	51	49	44	41	43	38	31	17
	Lmax	**67**	69	69	61	60	64	60	55	40
	L90	**37**	42	40	37	33	35	25	17	13

Measurement Summary

Position	*Time*	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Main	Overall Rush Hour	Leq	**49**	56	51	47	44	46	41	35	27
		Lmax	**71**	75	70	68	67	67	64	57	51
		L90	**43**	47	43	41	38	40	33	26	20
	Overall Early Night	Leq	**46**	51	49	44	41	43	38	31	17
		Lmax	**67**	69	69	61	60	64	60	55	40
		L90	**37**	42	40	37	33	35	25	17	13

Required Reductions

Position	*Environment*	*Reductions for BS8233 desirable* criteria*	*Reductions for WHO-Type Criteria*
Main	Living Rooms	14 dB L_{Aeq}	-
	Bedrooms	16 dB L_{Aeq}	22 dB L_{Amax}
	Outdoor Living Areas	0 dB L_{Aeq}	-

Note that these figures do not include any façade effect which might be applicable

* BS 8233 considers a 5 dB relaxation would still provide *reasonable* conditions

Mitigation Summary

Façade	*Room Type*	*Make-Up on Which Calculations are Based*
Front Façade	eg. Apt 2 Living Room	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
	eg. Apt 3 Bedroom	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
Front Façade Extension	eg. Apt 12 Studio	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
	eg. Apt 4 Bedroom	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
Rear Façade	eg. Apt 4 Living Room	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300
	eg. Apt 4 Bedroom	Walls: Traditional Masonry Glazing: Basic thermal eg. 4+20+4 Vents: Non-acoustic eg. Simon Airstrip 300

NB. R_w should come with a negative C_{tr} term, usually around -5 dB, eg. 35 dB R_w and -5 dB C_{tr} is 30 dB R_w+C_{tr}

Predicted Summary

Façade	*Room Type*	*Time*	*Index*	***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Front Façade	eg. Apt 2 Living Room	Rush	Leq	**28**	44	32	31	24	22	17	11	-2
	eg. Apt 3 Bedroom	Night	Leq	**27**	40	32	30	23	21	15	10	-10
			Lmax	**47**	58	52	47	42	42	38	33	13
Front Façade Extension	eg. Apt 12 Studio	Rush	Leq	**28**	44	32	31	24	22	17	11	-2
		Night	Leq	**20**	33	24	21	16	15	9	3	-17
			Lmax	**40**	51	44	38	35	36	32	27	5
Rear Façade	eg. Apt 4 Living Room	Rush	Leq	**28**	44	32	31	24	22	17	11	-2
	eg. Apt 4 Bedroom	Night	Leq	**20**	33	24	21	16	15	9	3	-17
			Lmax	**40**	51	44	39	35	36	32	27	6

Living Room Break-in

Front Façade *eg. Apt 2 Living Room*			***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Width of Exposed Façade 1	2.90 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 2	6.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 3	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 4	0.00 m		**-**	-	-	-	-	-	-	-	-
Total Exposed Façade Width	8.90 m		**-**	-	-	-	-	-	-	-	-
Element Height	2.50 m		**-**	-	-	-	-	-	-	-	-
Effective Room Depth (re. Exposed façade 1)	6.24 m		**-**	-	-	-	-	-	-	-	-
Element Area	22.25 m2		**-**	-	-	-	-	-	-	-	-
Effective Area (ie. with vents)	32.25 m2		**-**	-	-	-	-	-	-	-	-
Room Volume	45.25 m3		**-**	-	-	-	-	-	-	-	-
Assumed RT	0.50 s		**-**	-	-	-	-	-	-	-	-
Element Area Correction			**-**	15	15	15	15	15	15	15	15
Room Correction 10 x Log (RT/0.163/V)			**-**	-12	-12	-12	-12	-12	-12	-12	-12
Walls: Traditional Masonry	18.89 m2		**-**	23	32	41	47	49	53	58	55
Glazing: Basic thermal eg. 4+20+4	3.36 m2		**-**	15	21	17	25	35	37	31	31
Vents: Non-acoustic eg. Simon Airstrip 300	10.00 m2		**-**	23	28	26	26	29	29	29	36
Composite SRI	32.25 m2		**-**	21	28	25	30	34	34	33	38
Level Difference (Reverberant only)			**-**	-18	-24	-22	-26	-30	-30	-30	-34
Allowance for flanking/workmanship	3 dB		**-**	3	3	3	3	3	3	3	3
Façade relative to Measurement Position	3 dB		**-**	3	3	3	3	3	3	3	3
Predicted Internal Levels	Rush	Leq	**28**	44	32	31	24	22	17	11	-2
	Night	Leq	**25**	39	31	28	21	19	13	7	-12
		Lmax	**45**	58	51	45	40	40	36	31	11

Front Façade Extension *eg. Apt 12 Studio*			***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Width of Exposed Façade 1	5.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 2	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 3	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 4	0.00 m		**-**	-	-	-	-	-	-	-	-
Total Exposed Façade Width	5.00 m		**-**	-	-	-	-	-	-	-	-
Element Height	2.50 m		**-**	-	-	-	-	-	-	-	-
Effective Room Depth (re. Exposed façade 1)	3.10 m		**-**	-	-	-	-	-	-	-	-
Element Area	12.50 m2		**-**	-	-	-	-	-	-	-	-
Effective Area (ie. with vents)	22.50 m2		**-**	-	-	-	-	-	-	-	-
Room Volume	38.75 m3		**-**	-	-	-	-	-	-	-	-
Assumed RT	0.50 s		**-**	-	-	-	-	-	-	-	-
Element Area Correction			**-**	14	14	14	14	14	14	14	14
Room Correction 10 x Log (RT/0.163/V)			**-**	-11	-11	-11	-11	-11	-11	-11	-11
Walls: Traditional Masonry	9.80 m2		**-**	23	32	41	47	49	53	58	55
Glazing: Basic thermal eg. 4+20+4	2.70 m2		**-**	15	21	17	25	35	37	31	31
Vents: Non-acoustic eg. Simon Airstrip 300	10.00 m2		**-**	23	28	26	26	29	29	29	36
Composite SRI	22.50 m2		**-**	21	27	25	28	32	32	32	37
Level Difference (Reverberant only)			**-**	-18	-24	-22	-26	-30	-30	-29	-34
Allowance for flanking/workmanship	3 dB		**-**	3	3	3	3	3	3	3	3
Façade relative to Measurement Position	3 dB		**-**	3	3	3	3	3	3	3	3
Predicted Internal Levels	Rush	Leq	**28**	44	32	31	24	22	17	11	-2
	Night	Leq	**25**	39	30	28	21	19	14	8	-12
		Lmax	**45**	57	50	45	40	40	36	31	11

Rear Façade *eg. Apt 4 Living Room*			***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Width of Exposed Façade 1	5.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 2	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 3	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 4	0.00 m		**-**	-	-	-	-	-	-	-	-
Total Exposed Façade Width	5.00 m		**-**	-	-	-	-	-	-	-	-
Element Height	2.50 m		**-**	-	-	-	-	-	-	-	-
Effective Room Depth (re. Exposed façade 1)	3.10 m		**-**	-	-	-	-	-	-	-	-
Element Area	12.50 m2		**-**	-	-	-	-	-	-	-	-
Effective Area (ie. with vents)	22.50 m2		**-**	-	-	-	-	-	-	-	-
Room Volume	38.75 m3		**-**	-	-	-	-	-	-	-	-
Assumed RT	0.50 s		**-**	-	-	-	-	-	-	-	-
Element Area Correction			**-**	14	14	14	14	14	14	14	14
Room Correction 10 x Log (RT/0.163/V)			**-**	-11	-11	-11	-11	-11	-11	-11	-11
Walls: Traditional Masonry	9.80 m2		**-**	23	32	41	47	49	53	58	55
Glazing: Basic thermal eg. 4+20+4	2.70 m2		**-**	15	21	17	25	35	37	31	31
Vents: Non-acoustic eg. Simon Airstrip 300	10.00 m2		**-**	23	28	26	26	29	29	29	36
Composite SRI	22.50 m2		**-**	21	27	25	28	32	32	32	37
Level Difference (Reverberant only)			**-**	-18	-24	-22	-26	-30	-30	-29	-34
Allowance for flanking/workmanship	3 dB		**-**	3	3	3	3	3	3	3	3
Façade relative to Measurement Position	3 dB		**-**	3	3	3	3	3	3	3	3
Predicted Internal Levels	Rush	Leq	**28**	44	32	31	24	22	17	11	-2
	Night	Leq	**25**	39	30	28	21	19	14	8	-12
		Lmax	**45**	57	50	45	40	40	36	31	11

Bedroom Break-in

Front Façade *eg. Apt 3 Bedroom*			***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Width of Exposed Façade 1	2.70 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 2	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 3	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 4	0.00 m		**-**	-	-	-	-	-	-	-	-
Total Exposed Façade Width	2.70 m		**-**	-	-	-	-	-	-	-	-
Element Height	2.50 m		**-**	-	-	-	-	-	-	-	-
Effective Room Depth (re. Exposed façade 1)	3.85 m		**-**	-	-	-	-	-	-	-	-
Element Area	6.75 m2		**-**	-	-	-	-	-	-	-	-
Effective Area (ie. with vents)	16.75 m2		**-**	-	-	-	-	-	-	-	-
Room Volume	26.00 m3		**-**	-	-	-	-	-	-	-	-
Assumed RT	0.50 s		**-**	-	-	-	-	-	-	-	-
Element Area Correction			**-**	12	12	12	12	12	12	12	12
Room Correction 10 x Log (RT/0.163/V)			**-**	-9	-9	-9	-9	-9	-9	-9	-9
Walls: Traditional Masonry	3.63 m2		**-**	23	32	41	47	49	53	58	55
Glazing: Basic thermal eg. 4+20+4	3.12 m2		**-**	15	21	17	25	35	37	31	31
Vents: Non-acoustic eg. Simon Airstrip 300	10.00 m2		**-**	23	28	26	26	29	29	29	36
Composite SRI	16.75 m2		**-**	20	26	23	27	31	31	30	35
Level Difference (Reverberant only)			**-**	-17	-23	-20	-24	-28	-28	-27	-32
Allowance for flanking/workmanship	3 dB		**-**	3	3	3	3	3	3	3	3
Façade relative to Measurement Position	3 dB		**-**	3	3	3	3	3	3	3	3
Predicted Internal Levels	Rush	Leq	**30**	45	34	33	26	24	19	13	0
	Night	Leq	**27**	40	32	30	23	21	15	10	-10
		Lmax	**47**	58	52	47	42	42	38	33	13

Front Façade Extension *eg. Apt 4 Bedroom*			***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Width of Exposed Façade 1	3.40 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 2	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 3	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 4	0.00 m		**-**	-	-	-	-	-	-	-	-
Total Exposed Façade Width	3.40 m		**-**	-	-	-	-	-	-	-	-
Element Height	2.50 m		**-**	-	-	-	-	-	-	-	-
Effective Room Depth (re. Exposed façade 1)	12.50 m		**-**	-	-	-	-	-	-	-	-
Element Area	8.50 m2		**-**	-	-	-	-	-	-	-	-
Effective Area (ie. with vents)	18.50 m2		**-**	-	-	-	-	-	-	-	-
Room Volume	106.25 m3		**-**	-	-	-	-	-	-	-	-
Assumed RT	0.50 s		**-**	-	-	-	-	-	-	-	-
Element Area Correction			**-**	13	13	13	13	13	13	13	13
Room Correction 10 x Log (RT/0.163/V)			**-**	-15	-15	-15	-15	-15	-15	-15	-15
Walls: Traditional Masonry	7.45 m2		**-**	23	32	41	47	49	53	58	55
Glazing: Basic thermal eg. 4+20+4	1.05 m2		**-**	15	21	17	25	35	37	31	31
Vents: Non-acoustic eg. Simon Airstrip 300	10.00 m2		**-**	23	28	26	26	29	29	29	36
Composite SRI	18.50 m2		**-**	22	28	26	28	32	32	31	37
Level Difference (Reverberant only)			**-**	-25	-31	-29	-31	-34	-34	-34	-40
Allowance for flanking/workmanship	3 dB		**-**	3	3	3	3	3	3	3	3
Façade relative to Measurement Position	3 dB		**-**	3	3	3	3	3	3	3	3
Predicted Internal Levels	Rush	Leq	**23**	38	26	24	19	18	13	6	-8
	Night	Leq	**20**	33	24	21	16	15	9	3	-17
		Lmax	**40**	51	44	38	35	36	32	27	5

Rear Façade *eg. Apt 4 Bedroom*			***dB(A)***	*63*	*125*	*250*	*500*	*1k*	*2k*	*4k*	*8k*
Width of Exposed Façade 1	3.40 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 2	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 3	0.00 m		**-**	-	-	-	-	-	-	-	-
Width of Exposed Façade 4	0.00 m		**-**	-	-	-	-	-	-	-	-
Total Exposed Façade Width	3.40 m		**-**	-	-	-	-	-	-	-	-
Element Height	2.50 m		**-**	-	-	-	-	-	-	-	-
Effective Room Depth (re. Exposed façade 1)	12.35 m		**-**	-	-	-	-	-	-	-	-
Element Area	8.50 m2		**-**	-	-	-	-	-	-	-	-
Effective Area (ie. with vents)	18.50 m2		**-**	-	-	-	-	-	-	-	-
Room Volume	104.98 m3		**-**	-	-	-	-	-	-	-	-
Assumed RT	0.50 s		**-**	-	-	-	-	-	-	-	-
Element Area Correction			**-**	13	13	13	13	13	13	13	13
Room Correction 10 x Log (RT/0.163/V)			**-**	-15	-15	-15	-15	-15	-15	-15	-15
Walls: Traditional Masonry	7.45 m2		**-**	23	32	41	47	49	53	58	55
Glazing: Basic thermal eg. 4+20+4	1.05 m2		**-**	15	21	17	25	35	37	31	31
Vents: Non-acoustic eg. Simon Airstrip 300	10.00 m2		**-**	23	28	26	26	29	29	29	36
Composite SRI	18.50 m2		**-**	22	28	26	28	32	32	31	37
Level Difference (Reverberant only)			**-**	-25	-30	-29	-31	-34	-34	-34	-40
Allowance for flanking/workmanship	3 dB		**-**	3	3	3	3	3	3	3	3
Façade relative to Measurement Position	3 dB		**-**	3	3	3	3	3	3	3	3
Predicted Internal Levels	Rush	Leq	**23**	38	26	24	19	18	13	6	-8
	Night	Leq	**20**	33	24	21	16	15	9	3	-17
		Lmax	**40**	51	44	39	35	36	32	27	6