



general noise standards



RULE 1.1 - 1.5

Note: Noise standards which specifically apply in each of the *Human Environments* are detailed in the relevant *Human Environments* Rules. The following rules are additional to those specific standards.

Note: See also Policies 10.2, 10.8, 10.15, 11.3, 11.19
(Policy Section of the Waitakere District Plan)

1.1 Construction, Maintenance and Demolition Noise

Noise emanating from construction, maintenance or demolition shall be a *Permitted Activity* where the *construction*, maintenance or demolition is *subsidiary* to the existing or intended future use of the *site*, and where they meet the standards in NZS6803P:1984. Noise under this rule shall be measured and assessed in accordance with NZS 6803P:1984: “The Measurement and Assessment of Noise from Construction, Maintenance and Demolition Work.”

1.2 High Noise Routes {A203, A217, A221, A222, A226}

Any *dwelling* or *building* containing *Residential Activities* erected on a *front site* adjoining an existing *High Noise Route* shall be a *Permitted Activity* where that *dwelling* is built to an acoustic standards; ~~and providing that the traffic noise as measured within any habitable room does not exceed a level of 45 dBA Leq (24 hours) with windows closed.~~

Any *dwelling* or *building* containing *Residential Activities* erected on a *site* adjoining a rail corridor shall be a *Permitted Activity* where any *habitable rooms* of the *dwelling* or *Residential Activity* meet the following acoustic standards:

Required Internal Noise Standard

45dBA Leq between the hours of 0700 - 2200, and 35dBA Leq between the hours of 2200 - 0700;

NOTES

1. If an activity is not controlled or restricted in any way by any part of the *Plan* it is permitted, but may require consents under other legislation/ plans.
2. *Residential Activities* are to be controlled by section 16 of the *Act*.
3. Nothing in the specified *Plan* noise standards shall reduce the Council's ability to take action pursuant to sections 326 and 327, 322-325 and 316 of the *Act* in respect of excessive noise.
4. The Council may have guidelines to help interpret this rule - check at the Council Offices.
5. See specific noise control standards in each of the *Human Environments*.

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- (ii) Compliance with this rule shall be demonstrated by the provision of an acoustic design report from a suitably qualified and experienced acoustic engineer confirming that the building to be constructed is designed to achieve the above noise levels inside any *habitable room*;
- (iii) Where measurements are required inside any *habitable room* all doors and windows in the receiving room shall be shut;
- (iv) The acoustic design shall be based on the traffic flows predicted for the road a minimum of 10 years after the above building has been constructed;
- (v) Certification shall be provided at the completion of the construction of the *dwelling or building with Residential Activities* by a suitably qualified and experienced acoustic engineer that the completed building complies with the approved acoustic design report.

1.3 Future High Noise Routes {A203, A217, A221, A222, A226}

- (a) Roads which are to be *High Noise Routes* shall be a *Permitted Activity* where they are designed so that the traffic noise as measured 3.0 metres inside any *adjoining site* or 1.0 metre from the facade of any existing *dwelling* will not exceed 65dBA Leq(24hours).
- (b) Any new dwelling or building containing *Residential Activities*, or any additions or alterations to *habitable rooms* of an existing *dwelling* erected on a *front site* adjoining a *Future High Noise Route*, that will reach the predicted traffic flows for a *High Noise Route* within the 10 years following the application for *building consent* shall be a *Permitted Activity* where any *habitable rooms* of the *dwelling* or *Residential Activity* meet the acoustic standards in Rule 1.2 (a) to (e) above. Δ18

1.4 Measurement

Noise measurement in respect of all Noise Standards of this *Plan* shall be assessed, unless otherwise specified, in accordance with NZS 6801:1999 Acoustics - Measurement of Sound and NZS 6802:1999 Acoustics - Assessment of Environmental Sound.

RULE 1.6

HELICOPTER LANDING AREAS

1.5 Surface of Rivers and Lakes

Activities on the surface of *rivers* and *lakes* shall comply with the noise rules applying to the nearest *Human Environment* adjacent to the activity. Where the activity is the same distance from more than one *Human Environment*, then the relevant noise control rules which are the more restrictive apply.

1.6.1 General

The following rules shall apply to all helicopter operations except those:

- conducted by the RNZAF during times of civil emergency or threat to national security or associated with training for the carrying out of these activities, and
- to or from Waitakere Hospital, where such flights are related to medical emergencies or associated with training for the carrying out of these activities.

1.6.2 Permitted Activities

Helicopter operations shall be a *Permitted Activity* where:

- (a) the weekly noise standards specified in the following table are not exceeded at any part of a *site* (other than the *site* on which the helicopter lands or takes off) situated within the relevant *Human Environment*

Human Environment	L _{dn} dBA	L _{max} dBA
Living, Countryside, Foothills, Waitakere Ranges, Bush Living, Coastal Villages, Open Space	50	70
Working, Community, Hospital Special Area	65	N/A
Working	75	N/A

(helicopter noise shall be measured and assessed in accordance with the requirements specified in NZS6807:1994 “Noise Management and Land Use Planning for Helicopter Landing Areas” but excluding part 4.2 “Recommended Limits” which is replaced by the table above); and

- (b) all helicopter flights are flown in accordance with noise abatement techniques specified by the Helicopter Association International; and

Note: See also Policies 10.2, 11.13

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RULE 1.7

SALE OF LIQUOR

- (c) all helicopters using a helicopter landing area have either an FAA noise certificate or a comparable New Zealand Certificate acceptable to the Air Transport Division of the Ministry of Transport; and
- (d) the landing and take off flight paths are restricted to avoid passing over any *Residential Activity*; and
- (e) helicopter operations overfly any *Residential Activity* by no less than 300 metres.

1.7.1 Permitted Activities

Activities meeting the following Performance Standard are *Permitted Activities* provided the activity meets all other relevant rules of the *Plan*.

- Any *Non-Residential Activity* and any *Temporary Activity* in premises licensed under the Sale of Liquor Act 1989 where the activity is either within a *Living Environment, Bush Living Environment, Waitakere Ranges Environment, Foothills Environment, Countryside Environment, Rural Village Environment, Coastal Village Environment, or Open Space Environment* or within 50 metres of those *Human Environments* and:
 - (i) is not open for the sale of liquor outside the hours 11.00am to 10.30pm, Sunday to Thursday inclusive and 11.00am to 11.30pm, Friday and Saturday; and

NOTES

1. If an activity is not controlled or restricted in any way by any part of the *Plan* it is permitted, but may require consents under other legislation/ plans.
2. The *Working Environment* and *Community Environment* are not controlled by Rule 1.6.
3. See also the specific noise control rules in each relevant *Human Environment*.
4. Activities must comply with all other relevant rules of the *Plan* or be the subject of a *resource consent*. Check all other rules in the relevant *Human Environments Rules, Natural Areas Rules* and the *City-Wide Rules*.
5. Words in *italics* are defined - see the Definitions part of the *City-Wide Rules*.
6. Words in **bold** are explained - see the Explanations part of the Introduction to the Rules.
7. The Council may have guidelines to help interpret this rule - check at the Council Offices.
8. For *resource consents* see the Information Requirements in the *City-Wide Rules*.

ASSESSMENT CRITERIA

1.7(a)

The extent to which the character, scale and intensity of the proposed activity is compatible with **amenity values** and **neighbourhood character**.

1.7(b)

The extent to which *fencing* and/or *planting* provide an adequate noise buffer between the activity and *Residential Activities* on other *sites*.

1.7(c)

The extent to which more than minor adverse *effects* can be adequately avoided, remedied, mitigated or offset through provision of works and services on or off the *site* and/or through payment or provision of a *financial contribution*.

Note: See also Policies 10.2, 10.27, 11.13

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SALE OF LIQUOR

- (ii) does not involve amplified music
 - between the hours 10pm - 8am Monday - Thursday, Sundays and public holidays
 - between the hours 11pm - 8am Friday and Saturday

1.7.2 Discretionary Activities

Activities meeting the following Performance Standard are *Discretionary Activities*:

- *Any Activity* and *Temporary Activity* not meeting the standards in Rule 1.7.1.

Discretionary Activity applications will be assessed having regard to Assessment Criteria 1.7(a)-1.7(c) and any other matters that are relevant under section 104 of the *Act*.

RESOURCE CONSENT CONDITIONS

In granting a *resource consent* Council may impose conditions. The conditions may include any one or more of the following matters:

- requiring alterations to *design* and/or location of *buildings* or *structures* on the *site*
- requiring alteration to the *car park/access design* and/or location
- requiring the retention or addition of trees and/or other *vegetation*
- limiting the scale of the *development* or use
- limiting hours of operation
- requiring the provision of *screening*
- requiring provision of a *landscape treatment plan* and its implementation within a given time
- the imposition of a charge to cover costs of monitoring the activity
- the imposition of a *bond* to cover satisfaction of conditions of consent
- requiring *financial contributions* in accordance with the *Plan*
- requiring *on-site* or *off-site* works and services to avoid, remedy, mitigate or offset adverse *effects*
- such other matters provided for in section 108 of the *Act*.

RULE 1.8

AIRBASE NOISE INSULATION

1.8 Permitted Activities

Activities meeting the following Performance Standards are *Permitted Activities* provided the activity meets all other relevant rules of the *Plan*.

- *New Dwellings, Minor Household Units*, schools and hospitals located between the L_{dn} 55 and 65 dBA Noise Contours as shown on the Airbase Noise Map, fitted with acoustic insulation to ensure that noise does not exceed L_{dn} 40 dBA in any *habitable room*, classroom, ward (including single patient rooms) or operating theatre, with all doors and windows shut.
- Alterations or additions to *Dwellings, Minor Household Units*, schools and hospitals which are within L_{dn} 55 dBA Noise Contours as shown on the RNZAF Base - Noise Control Area Map, fitted with acoustic insulation to ensure that noise does not exceed L_{dn} 40 dBA in any *habitable room*, classroom, ward (including single patient rooms) or operating theatre, with all doors and windows shut.

An Acoustic Design report shall be obtained from a suitably qualified Acoustic Engineer confirming that any new *building* is designed to meet the above Performance Standards.

Note: See also Policies 10.25, 11.13

(Policy Section of the Waitakere District Plan)

RULE 1.9

AIRBASE NOISE MANAGEMENT

1.9 Permitted Activities

Activities on the RNZAF Airbase meeting the following Standards shall be *Permitted Activities*:

- (a) Aircraft operations not exceeding a Day/ Night (L_{dn}) level of:
- 65dBA outside the Airnoise Boundary (L_{dn} 65 dBA Contour) shown on the Airbase Noise Map, and
 - 55dBA outside the Outer Control Boundary (L_{dn} 55 dBA Contour) shown on the Airbase Noise Map.

For the purpose of this control, aircraft noise will be measured in accordance with the NZS 6805:1992 and calculated, as stated in NZS 6805:1992, using FAA Integrated Noise Model (INM) and records of actual aircraft operations, and calculated as a 90 day rolling logarithmic average.

- (b) Aircraft operations exceeding the standard in (a) above where:
- the aircraft is landing in an emergency;
 - the aircraft is landing at the Airbase as an alternative in adverse weather conditions; or
 - the aircraft is using the airfield as part of a search and rescue operation or civil emergency.

Note: See also Policies 10.25, 11.13

(Policy Section of the Waitakere District Plan)

RULE 1.10

RESIDENTIAL ACTIVITIES - NOISE ATTENUATION

RULES {A203, A217, A221, A222, A226}

1.10.0 General

(a) The following rules shall apply only to Residential Activities and associated development.

1.10.1 Performance Standards - Residential Activities - Noise Attenuation

The following are Permitted Activities in respect to this rule:-

Additions and alterations to any existing building or new building that is to be utilised for Residential Activities, located on a site in the following:

- Community Environment;
- Community Periphery Environment;
- Living 5 Environment;
- Living 6 Environment;
- Hobsonville Village Centre Special Area;
- Hobsonville Base Village Special area where nominated by an approved Comprehensive Development Plan in accordance with Rule 21.3(g)(xv), or;
- Massey North Town Centre Special Area

that are acoustically designed to achieve a noise level inside any habitable room meeting the following Performance Standards at the time of any application for either a building consent (in the case of a permitted activity for a building or residential activity) or resource consent for a building or residential activity:

(a) Required Internal Noise Standard

45dBA L10 between the hours of 0700 - 2200, and 35dBA L10 between the hours of 2200 - 0700.

(b) Design

- (i) Compliance with this rule shall be demonstrated by the provision of an acoustic design report from a suitable qualified and experienced acoustic engineer confirming that the building to be constructed is designed to achieve the above noise levels inside any habitable room.
- (ii) The acoustic design shall be based on the assumption that noise at the boundary of the site is at the level shown in the table below;

ASSESSMENT CRITERIA

1.10(a)

The extent to which the background noise level (L95) in the vicinity of the subject site affects the relevance of noise standards for Residential Activities.

1.10(b)

The extent to which adequate noise buffers are provided on sites used for residential activities.

1.10(c)

The extent to which the acoustic design of a residential activity in a building or development with frontage to a major road is designed to mitigate predicted traffic flows in the 10 years following the application for resource consent.

1.10(d)

The extent to which the acoustic design of a residential activity avoids, remedies or mitigates reserve sensitivity effects.

Note: See also Policies:

- 10.1, 10.2, 10.8, 10.15, 10.27, 11.3, 11.13, 11.19, 11.24, 11.35, 11.36, 11.37A, 11.37B, 11.38, 11.41, 11.44, 11.45, 11.46, 11.48, 11.49.

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RULE 1.10

RESIDENTIAL ACTIVITIES - NOISE ATTENUATION

	Octave Band Centre Frequency(Hz)						
	63	125	250	500	1k	2k	4k
Daytime incident L10 Sound Pressure Level (dB)	69	62	61	56	54	54	49
Night time incident L10 Sound Pressure Level (dB)	64	57	56	51	49	49	44

- (iii) Where measurements are required inside any habitable room all doors and windows in the receiving habitable room shall be shut.
- (iv) At the same time and under the same physical conditions as the internal noise levels in the table (ii) above will be achieved, all habitable rooms must be adequately ventilated in accordance with the Building Code.
- (v) The noise levels shall be measured in accordance with the requirements of NZS 6801:1991 Measurement of Sound and during the daytime shall be assessed in accordance with the requirements of NZS6802:1991 Assessment of Environmental Sound. At night time the noise shall be assessed in accordance with the requirements of NZS6802:1991 Assessment of Environmental Sound, except clause 4.4 shall not be used for any frequency below 250Hz.

Note: These controls only achieve the design criteria within the habitable rooms on the assumption that doors and windows are shut. The noise levels outside on balconies are not controlled below the levels as set out in (ii) above.

(e)

1.10.2 Discretionary Activities

The following are Discretionary Activities:

- (a) Any Residential Activity to which this rule relates not meeting the standards in Rule 1.10.1.

Assessment of Discretionary Activities applications will be assessed having regard to Assessment Criteria 1.10(a) - 1.10(d) and any other matters which are relevant under Section 104 of the Act.

RESOURCE CONSENT CONDITIONS

In granting a resource consent Council may impose conditions. Conditions may include any one or more of the following matters:

- Requiring the alteration to the design of the building or development;
- Requiring certification by a suitably qualified and experienced acoustic engineer that the completed building complies with the approved acoustic design report;
- The imposition of a bond to ensure satisfaction of conditions of consent;
- Requiring mitigation measures in relation to vehicle noise and lights;
- The imposition of a charge to cover costs of monitoring the activity;
- Requiring a financial contribution;
- Requiring onsite or offsite works and services to avoid, remedy, mitigate or offset adverse effects;
- Such other matters provided for in section 108 of the Act.

Provided that, in the case of Limited Discretionary Activities, conditions may only be imposed in respect of the matters specified above to which the Council has restricted the exercise of its discretion.

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NOTES

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2. Activities must comply with all other relevant rules of the *Plan* or be the subject of a *resource consent*. Check all other *City-Wide Rules*, the relevant *Human Environment* and also the *Natural Area Rules*, and, where relevant, the *Subdivision Rules*.
3. Words in *italics* are defined - see the *Definitions* part of the *City-Wide Rules*.
4. Words in **bold** are explained - see the *Explanations* part of the *Introduction to the Rules*.
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