

**IN THE MATTER of
the Resource Management Act 1991**

AND

**IN THE MATTER of
Hearing of submissions, further
submissions and variations on the
Proposed Te Tai o Poutini Plan**

**MINUTE 44 – EXPERT CONFERENCING FOR
NOISE CHAPTER**

1. Following the adjournment of the Noise and Signs Hearing held on 4 and 5 September 2024, the Hearing Panel has received a draft agenda and updated amendments to the Noise Chapter (Appendix 1 and 2) as requested from the Reporting Officer. These documents are attached to this Minute.
2. The Hearing Panel considers the draft agenda reflects the limited number of outstanding matters identified by the noise experts following the hearing adjournment. The Hearing Panel agrees expert conferencing can occur without a facilitator given the small number of noise experts involved and the limited scope of outstanding matters.
3. The Panel directs expert conferencing between the noise experts, based on the draft agenda, occurs as soon as possible, with the provision of a joint witness statement provided by **Friday 4 October 2024**.
4. Any queries regarding this Minute or the noise expert conferencing process, should be directed to Ms Jo Armstrong by phone: 03 7680466 or email: jo.armstrong@wrc.govt.nz



Sharon McGarry

Independent Commissioner– Chair - on behalf of the Hearing Panel members

13 September 2024

Appendix 1

- 1 -

NOISE CHAPTER (NGA ORO) - EXPERT WITNESS CONFERENCE AND JOINT WITNESS STATEMENT

IN THE MATTER	of the Resource Management Act 1991 (“ RMA ” or “ the Act ”)
AND	of the Proposed Te Tai o Poutini Plan

Facilitator	n/a
Date	
Venue	Remotely via MS Teams

Expert	For
Mr Stephen Peakall (SJP)	Te Tai o Poutini Plan Committee (TTPP)
Mr Rhys Hegley (RLH)	WMS Group, WMS Land Co., West Coast Bulk Logistics, TiGa Minerals and Metals Limited
Dr Stephen Chiles (SGC)	National Public Health Service (NPHS) New Zealand Transport Agency (NZTA) Kiwirail

JOINT WITNESS STATEMENT

Introduction

In preparing this statement, the noise experts have read and understood the Code of Conduct for Expert Witnesses as included in the Environment Court of New Zealand Practice Note 2023.

The topics and issues outlined below have been taken from correspondence provided by the experts engaged by submitters, to cover the issues that were not fully resolved at the Noise Hearing 4th, 5th September 2024.

Some of the issues may therefore not be relevant to all experts. Where this is the case, this has been noted.

Issues¹ – Submitter: WMS Group, WMS Land Co., West Coast Bulk Logistics, TiGa Minerals and Metals Limited

1.	What interpretation do the acousticians have of the TTPP’s objectives for the rural zone noise rule?
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)
2.	What measurement position should be used for the rural zone noise rule?
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)
3.	Are limits of 55dB L_{Aeq} day time and 45dB L_{Aeq}/ 75dB L_{AFmax} night time appropriate as standard criteria for the Rural zone?
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)
4.	Would the rural zone noise rule benefit from periods of respite from the levels agreed on 2 above, such as during evenings and/or on weekends and public holidays?

¹ Issues taken from [24042 Caucusing Agenda \(tpp.nz\)](https://www.tpp.govt.nz/24042-caucusing-agenda), dated 5 September 2024

	Matters of Agreement a)
	Matters of Disagreement a)
5.	Is there merit in considering different noise rules for the different precincts within the rural zone (the General rural zone, the Rural Lifestyle zone and the Settlement zone)?
	Matters of Agreement a)
	Matters of Disagreement a)
6.	With respect to the port, what is the purpose of R9 and is it appropriately worded?
	Matters of Agreement a)
	Matters of Disagreement a)
7.	With respect to the port, what is the purpose of the port noise rule within RX3 and is it appropriately worded?
	Matters of Agreement a)
	Matters of Disagreement a)

8.	With respect to the mineral extraction zone, what is the purpose of the R11 and is it appropriately worded?
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)
9.	With respect to the mineral extraction zone, what is the purpose of the mineral extraction zone noise rule within RX3 and is it appropriately worded?
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)

X.	Any other Outstanding Items
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)

Issues – Submitter: National Public Health Service (NPHS),

1.	NOISE-R2.12 – Appropriate parameters (non-acoustic) for exemption of aircraft movements, including consideration of separation distances from houses.
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	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>
2.	NOISE-RX – Noise limits for evening periods
	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>
3.	NOISE-RX – Proposed noise limits at notional boundaries of sensitive activities in generally non-sensitive zones
	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>
4.	NOISE-R10.2X – Appropriate controls for unplanned engine testing
	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>

5.	<p>Potential Scope Issues Noted.</p> <p>NOISE-RX – increasing the noise limit from the notified rules by 10 dB in the 7pm to 10pm period</p>
	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>
6.	<p>Potential Scope Issues Noted.</p> <p>NOISE-R10.2X – exempting some engine testing from any noise controls where they were subject to noise limits in the notified rules.</p>
	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>

X.	<p>Any other Outstanding Items</p>
	<p>Matters of Agreement</p> <p>a)</p>
	<p>Matters of Disagreement</p> <p>a)</p>

Issues – Submitter: New Zealand Transport Agency (NZTA),

1.	NOISE-R3.1.b.ii – Inclusion of a 3 dB allowance in predictions/measurements
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)
2.	NOISE-R3.1.f.v – Measurement position for ventilation noise
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)

X.	Any other Outstanding Items
	<i>Matters of Agreement</i> a)
	<i>Matters of Disagreement</i> a)

Issues – Submitter: KiwiRail

1.	Definition of habitable space / sensitive activities and how these would capture the full suite of activities which are sensitive to noise
	<p><i>Matters of Agreement</i></p> <p>a)</p>
	<p><i>Matters of Disagreement</i></p> <p>a)</p>
2.	1m measurement of noise from ventilation units
	<p><i>Matters of Agreement</i></p> <p>a)</p>
	<p><i>Matters of Disagreement</i></p> <p>a)</p>
3.	Use of the Rail Noise Overlay, and/or Alert Overlay in lieu of a 100m setback, and whether that should apply at the Designation Boundary or the track edge
	<p><i>Matters of Agreement</i></p> <p>a)</p>
	<p><i>Matters of Disagreement</i></p> <p>a)</p>

X.	Any other Outstanding Items
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	<p><i>Matters of Agreement</i></p> <p>a)</p>
	<p><i>Matters of Disagreement</i></p> <p>a)</p>

Signed:

Witness	Signature	Date
Mr Stephen Peakall		
Mr Rhys Hegley		
Dr Stephen Chiles		

Appendix 2

Section 42A Officer's Report Addendum in response to submitter evidence – Noise Appendix 1 – Recommended Provisions

Recommended amendments to the provisions in response to submissions are shown in ~~strikethrough~~ and underline.

Recommended amendments to the provisions following filing the s42A Report and in response to submitter evidence are shown in ~~strikethrough~~ and underline.

Recommended amendments to the provisions following the hearing, **for conferencing purposes**, shown in ~~strikethrough~~ and underline. Comments bubbles are for conferencing purposes to signal matters that arose during the hearing that will be addressed in conferencing and/or right of reply.

NOISE Noise - Ngā Oro

Overview

The generation of noise is often a necessary part of many activities undertaken on the West Coast/Te Tai o Poutini. While it is important that such activities are able to operate, noise can result in potential adverse effects on people's health and wellbeing, and their enjoyment of the environment. Adverse effects associated with noise can vary depending on a number of factors, including frequency, timing, duration and characteristics of the noise, the distance between the source and receiver, and any reduction measures. The background sound level can influence the acceptability or annoyance of noise, and this can also vary throughout the West Coast/Te Tai o Poutini.

Where ~~noise~~² sensitive activities are established near existing noise-generating activities, or areas where higher noise levels are to be expected, reverse sensitivity effects can arise, potentially resulting in the existing noise-generating activities being constrained, in terms of their ongoing operation or expansion. This is a particular concern for important services and community facilities, including Airports and Heliports, Sports Grounds and Stadiums, the State Highway, Railway Corridors and the Ports, which could be constrained if reverse sensitivity effects arise.

This Chapter controls the nature and timing of noise-generating activities, including maintaining appropriate noise levels within zones where a different noise environment is anticipated to ~~minimise~~³ manage³ potential adverse effects⁴, and manages new sensitive activities where these are located close to established noise-generating activities or zones which have or are expected to have elevated noise levels.

² Silver Fern Farms Limited (S441.006), KiwiRail (S442.008)

³ Minor amendment for clarity of language

⁴ Buller Conservation Group (S552.153) and Frida Inta (S553.153)

The provisions in this chapter apply to all other chapters within this Plan, unless otherwise specified.

Noise Objectives

NOISE - O1	The benefits of noise generating activities are provided for in a way that is compatible with the role, function and character of each zone and does not <u>unreasonably</u> ⁵ compromise community health, safety and wellbeing.
NOISE - O2	The function and operation of existing and permitted future <u>lawfully established</u> ⁶ noise generating activities and community ⁷ infrastructure are not compromised by adverse effects, including reverse sensitivity effects, from noise-sensitive ⁸ activities.
NOISE - O3	The health and wellbeing of people and communities are protected from significant levels of noise.

Also the Strategic Objectives and Policies

Noise Policies

NOISE - P1	Enable the generation of noise when it is of a type, character, scale and level that is appropriate to the zone, having regard to: a. The purpose, character and qualities of the zone that the activity is located in; b. The nature, frequency and duration of the noise generating activity; c. Whether the noise generating activity is critical <u>regionally significant</u> ⁹ infrastructure; d. Methods of mitigation; and e. The sensitivity of the surrounding environment.
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⁵ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (Te Whatu Ora) (S190.528)

⁶ Horticulture New Zealand (S486.056), Federated Farmers of New Zealand (S524.100)

⁷ Manawa Energy Limited (S438.124)

⁸ Silver Fern Farms Limited (S441.006), KiwiRail (S442.008)

⁹ Manawa Energy Limited (S438.125)

NOISE - P2	<p>Require sensitive activities sited in higher noise environments <u>and new sensitive activities adjacent to higher noise environments</u>¹⁰ to be located and designed so as to minimise adverse effects on the amenity values, public health and wellbeing and the safety of occupants and minimise sleep disturbance from noise, while taking into account:</p> <ol style="list-style-type: none"> a. The type of noise generating activity; and b. Other noise sources in the area; and c. The nature and occupancy of the noise¹¹ sensitive activity; and d. Mitigation measures, including acoustic insulation, screening and topography. <p>For the purpose of NOISE - P2 higher noise environments include:</p> <ol style="list-style-type: none"> 1. CMUZ - Commercial and mixed use zones; 2. INZ - Industrial zones, PORTZ - Port Zone, AIRPZ - Airport Zone, STADZ - Stadium Zone, BCZ - Buller Coalfield Zone, MINZ - Mineral Extraction Zone and HOSPZ - Hospital Zone; and 3. Locations in close proximity to a State Highway and the Railway Corridor; and¹² 4. <u>The Westport Rifle Range Noise Overlay.</u>¹³
NOISE - P3	<p>Within the Airport Noise Contour Boundary overlay avoid sensitive activities, unless noise mitigation measures are implemented that avoid sleep disturbance and minimise other adverse effects on the amenity values of occupants.</p>
NOISE - P4	<p>Ensure noise effects generated by an activity are of a type, scale and level that are appropriate for the predominant role, function and character of the receiving environment and protect the health and wellbeing of people and communities by having regard to:</p> <ol style="list-style-type: none"> a. Maximum noise limits to reflect the character and amenity of each zone; b. Type, scale and location of the activity in relation to any noise¹⁴ sensitive activities; c. Hours of operation and duration of activity; d. The temporary or permanent nature of any adverse effects; and e. The ability to internalise and/or <u>avoid, remedy or mitigate adverse effects</u> minimise¹⁵ <u>any conflict with adjacent activities;</u> and f. <u>The functional need</u> and¹⁶ <u>or operational need of the activity.</u>¹⁷

¹⁰ Silver Fern Farms Limited (S441.039)

¹¹ Silver Fern Farms Limited (S441.006), KiwiRail (S442.008)

¹² Minor amendment for clarity

¹³ Dean Trott (S330.002), Westport Pistol Club (S336.016), Chris Hartigan (S338.002), Westport Rifle Club Incorporated (S457.009)

¹⁴ Silver Fern Farms Limited (S441.006), KiwiRail (S442.008)

¹⁵ Westpower Limited (S547.487)

¹⁶ Minor amendment for consistency of language throughout the pTTPP

¹⁷ Westpower Limited (S547.488)

Noise Rules

Note: There may be a number of Plan provisions that apply to an activity, building, structure and site. In some cases, consent may be required under rules in this Chapter as well as rules in other Chapters in the Plan. In those cases, unless otherwise specifically stated in a rule, consent is required under each of those identified rules. Details of the steps Plan users should take to determine the status of an activity are provided in General Approach.

Permitted Activities

NOISE - R1	General Standards	
	<p>All activities must comply with the following relevant standards.</p> <ol style="list-style-type: none"> 1. Noise levels arising from activities must be measured and assessed in accordance with the New Zealand Standard NZS 6801:2008 Acoustics - Measurement of environmental sound and the New Zealand Standard NZS 6802:2008 Acoustics - Environmental noise except where more specific requirements apply. 2. The noise from any construction work activity must be measured and assessed in accordance with the requirements of New Zealand Standard NZS6803:1999 Acoustics – Construction noise. Construction work is defined in New Zealand Standard NZS 6803:1999 Acoustics – Construction noise. 3. Noise from mobile noise sources shall comply with the noise limits set out in Tables 2 and 3 of NZS 6803:1999 Acoustics – Construction Noise, with reference to "construction noise" taken to refer to "mobile noise sources";¹⁸ X. <u>Noise from aerodromes, airfields of or¹⁹ airports not subject to noise rule R10 shall be measured and assessed in accordance with New Zealand Standard NZS 6805:1992 Airport Noise Management and Land Use Planning²⁰</u> XX. <u>Noise from New or Altered Roads shall be measured and assessed in accordance with New Zealand Standard NZS 6806:2010 Acoustics - Road-traffic noise - New and altered roads²¹</u> 4. Noise from wind turbines shall be measured and assessed in accordance with section 7.7 of²² NZS 6808: 2010 Acoustics 	<p>Activity status where compliance not achieved: Restricted Discretionary</p>

¹⁸ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190)

¹⁹ Minor amendment to correct typographical error

²⁰ Minor amendment to include the standard for Airport Noise Management and Land Use Planning

²¹ Minor amendment to include the standard for Acoustics – Road-traffic noise – New and altered roads

²² Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.535)

<p>Wind Farm Noise;</p> <p>5. Noise from Helicopter Landing areas shall be managed <u>measured and assessed</u>²³ in accordance with and comply with the noise standards and limits of NZS 6807: 1994 Noise Management and Land Use Planning for Helicopter Landing Area.</p> <p><u>XXX. Noise from port activities shall be managed in accordance with and comply with the noise standards and limits, control boundaries and methods of measurement as outlined in NZS 6809: 1999 Acoustics Port Noise Management and Land Use Planning.</u>²⁴</p>	
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²³ Minor amendment for clarity

²⁴ Consequential change to the recommended amendment to Rule 9

NOISE - R2	Emissions of Noise in All Zones	
<p>Activity Status Permitted</p> <p>Where the following activities are exempted from meeting Zone noise standards:</p> <ol style="list-style-type: none"> 1. Intermittent residential activities, or <u>Noise associated with use of the site for residential activity, including²⁵ use of lawn mowers, vehicles, machinery or equipment operated and maintained in accordance with the manufacturer's²⁶ specifications and associated with the use of a site for a residential activity used on an intermittent basis (e.g. spraying, harvesting, etc)²⁷;</u> 2. Any warning device or siren used by emergency services for emergency purposes (and routine testing and maintenance of these); 3. Activities at emergency service facilities associated with emergency response and emergency response training; 4. Helicopters used for an emergency and as an air ambulance; 5. The use of generators and mobile equipment (including vehicles) for emergency purposes, including testing and maintenance not exceeding 2 weeks in duration, where they are operated by emergency services, or lifeline utilities or Regionally Significant Infrastructure²⁸; 6. People noise at recreational activities, such as sporting events or the noise from children at school or daycare facilities²⁹ or in residential dwellings. This does not include any amplified noise; 7. Vehicles being driven on a road (within the meaning of Section 2(1) of the Transport Act 1998), or within a site as part of or compatible with an normal residential activity <u>provided for as a permitted activity in that zone</u>³⁰; 8. Trains <u>operating</u>³¹ on rail lines (public or private) and crossing bells within road reserve, including at railway yards, railway sidings or stations. However, this exemption does not apply to the testing (when stationary), maintenance, loading or unloading of trains; 9. Road construction work where management controls are in place to mitigate the emission of noise; 		<p>Activity status where compliance not achieved:</p> <p>Restricted Discretionary N/A³³</p>

²⁵ Minor amendment for clarity

²⁶ Minor amendment to correct typographical error

²⁷ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536); minor amendments to improve clarity and certainty

²⁸ Manawa Energy Limited (Manawa Energy) (S438.126)

²⁹ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536)

³⁰ Foodstuffs (South Island) Properties Limited and Foodstuffs South Island Limited (S464.049), WMS Group (HQ) Limited and WMS Land Co. Limited (S599.094)

³¹ Minor amendment for clarity

³³ Minor amendment for clarity

10. Any residential activity on the same site as a noise source being assessed;³²

³² Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536)

11. ~~Agricultural, pastoral and horticultural and pastoral farming~~³⁴ activities undertaken for a limited duration, including using agricultural vehicles, machinery, aircraft or equipment used on a seasonal or intermittent basis³⁵ in the General Rural and Rural Lifestyle zones;
12. ~~Infrequent aircraft take off and landing, including helicopter movements,~~³⁶ for associated with rural production activities and conservation activities purposes on an intermittent basis for no more than 30 days in any 12 month period per site^{37,38}; ~~including aerial topdressing and helicopter movements;~~
13. Non-commercial motorised watercraft operating on the surface of waterbodies;
14. Rifle ranges located within the Rifle Range Protection Area during the hours of 7am to 10pm³⁹;
15. ~~Impulsive sounds (such as hammering and bangs) and dog barking noise which are poorly assessed by reference to NZS 6802:2008 Acoustics Environmental Noise;~~⁴⁰
16. The noise is emitted from an audible bird scaring device between the hours of half an hour before sunrise and until half an hour after sunset, not used at a frequency of more than 12 events per hour, and generating less than 65 dB LAE for each event;⁴¹ and
17. The noise is from a Temporary Activity where the temporary activity occurs between 7:00am and 10:00pm, and no more than 12 days per calendar year⁴² ~~only~~⁴³, and if operating outside of these hours complies with the underlying noise standards of the zone. This does not include any amplified noise.⁴⁴

³⁴ Minor amendment to use the defined term

³⁵ Minor amendment to improve certainty of the rule

³⁶ New Zealand Agricultural Aviation Association (S166.024)

³⁷ Minor amendment to improve certainty of the rule

³⁸ West Coast Regional Council (S488.033)

³⁹ Westport Pistol Club (S336.009)

⁴⁰ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536)

⁴¹ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536)

⁴² Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536)

⁴³ Minor amendment for clarity

⁴⁴ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.536)

NOISE - R3	Acoustic Insulation Requirements for New <u>or Altered</u>⁴⁵ Buildings for Use by a Sensitive Activity
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Activity Status Permitted	Activity status where compliance not achieved: Restricted Discretionary
<p>Where:</p> <p>4. The building will be used by a sensitive activity and is located within <u>the Road Noise Overlay shown on the planning maps</u>⁴⁶:</p> <p>a. <u>80m of the edge of the carriageway of a State Highway with a speed limit of 70kph or greater; or</u></p> <p>b.⁴⁷ <u>40m of the edge of the carriageway of a State Highway with a speed limit of less than 70kph; where:</u></p> <p style="padding-left: 20px;">i. Any habitable room used for a sensitive activity⁴⁸ <u>and/or space used for sleeping</u>⁴⁹ must be designed, and <u>constructed and maintained</u>⁵⁰ to achieve a minimum <u>maximum internal noise limit level</u>⁵¹ of 40dB LAeq (24h); and</p> <p style="padding-left: 20px;">ii. Compliance with i. above must be achieved based on an existing noise level with 3 decibel addition adjacent to State Highways allowing for future traffic increase; and⁵²</p> <p style="padding-left: 20px;">iii. Any <u>new or altered habitable room and/or space used for sleeping building</u>⁵³ <u>within 20m of the edge of the carriageway</u>⁵⁴ must be designed, constructed and maintained to achieve vibration limits not exceeding 0.3mm/s (Class C criterion Maximum Weighted Velocity, Vw,95);</p> <p>c. 45<u>10</u>0m⁵⁵ of the edge of the tracks of a railway line where:</p> <p style="padding-left: 20px;">i. Any new or altered⁵⁶ <u>habitable room used for a sensitive activity and/or spaced used for sleeping</u>⁵⁷:</p> <p style="padding-left: 20px;">i. must be designed, and <u>constructed and maintained</u>⁵⁸ to achieve a maximum internal noise limit level⁵⁹ of 35 dB</p>	

⁴⁵ KiwiRail Holdings Limited (S442.088)

⁴⁶ Waka Kotahi (S450.171)

⁴⁷ Waka Kotahi (S450.171)

⁴⁸ Minor amendment for clarity and consistency

⁴⁹ Minor amendment for clarity, Ngāi Tahu (S620.211), KiwiRail Holdings Limited (S442.088)

⁵⁰ Minor amendment for clarity and consistency

⁵¹ Minor amendment for clarity, Ngāi Tahu (S620.211), KiwiRail Holdings Limited (S442.088)

⁵² Jacobus Wiskerke (S95.004), Building - Coast Wide (S223.001), Chris & Jan Coll (S558.325), Chris J Coll Surveying Limited (S566.325), William McLaughlin (S567.386), and Laura Coll McLaughlin (S574.325), Ngāi Tahu (S620.211), Ngāi Tahu (S620.211)

⁵³ Consequential to KiwiRail Holdings Limited (S442.088)

⁵⁴ Ngāi Tahu (S620.211), Waka Kotahi NZ Transport Agency (S450.171)

⁵⁵ Ngāi Tahu (S620.211), KiwiRail Holdings Limited (S442.088)

⁵⁶ KiwiRail Holdings Limited (S442.088)

⁵⁷ Minor amendment for clarity, Ngāi Tahu (S620.211), KiwiRail Holdings Limited (S442.088)

⁵⁸ Minor amendment for clarity and consistency

⁵⁹ Minor amendment for clarity

$L_{Aeq}(1h)$;

ii. Compliance ~~with i. above~~ must be achieved based on an assumption of 70 $LA_{eq}(1h)$ at a distance of 12m from the railway track and shall be deemed to reduce at a rate of 3 dB per doubling of distance up to 40m; or ii. is at least 50 metres from any railway network, and is designed so that a noise barrier completely blocks line-of-sight from all parts of doors and windows to all points 3.8 metres above railway tracks⁶⁰

cx. 60m of the edge of the tracks of a railway line where ~~iii. Any building any new or altered habitable room and/or space used for sleeping~~⁶¹ must be designed, constructed and maintained to achieve vibration limits not exceeding 0.3mm/s (Class C criterion Maximum Weighted Velocity, V_w ,95);

d. The 50 dBA Noise Contour boundary of Franz Josef Heliport or the 55 dBA⁶² Noise Contour boundary of the Westport or Hokitika Airports or Greymouth or Karamea Aerodrome or Haast Airfield⁶³; where:

i. Any new or altered⁶⁴ habitable room and/or space used for sleeping⁶⁵ must be designed, ~~and~~ constructed and maintained⁶⁶ to achieve a ~~minimum~~ maximum⁶⁷ indoor design noise level of 40 dB L_{dn} ;

e. Any CMUZ - Commercial and Mixed Use Zone, INZ - Industrial Zone or AIRPZ - Airport Zone, PORTZ - Port Zone, STADZ - Stadium Zone, HOSZ - Hospital Zone, BCZ - Buller Coalfield Zone or MINZ - Mineral Extraction Zone; where

i. The building is designed, ~~and~~ constructed and maintained⁶⁸ to ensure that the following indoor design noise levels are not exceeded:

A. ~~40~~35dB LA_{eq} inside any new or altered⁶⁹ habitable room bedrooms⁷⁰;

B. ~~35~~40dB LA_{eq} inside ~~any other habitable room, except for~~ new or altered⁷¹ bedrooms between 10pm and

⁶⁰ KiwiRail Holdings Limited (S442.088)

⁶¹ KiwiRail Holdings Limited (S442.088)

⁶² Minor amendment for clarity

⁶³ Consequential amendment to reflect recommendation of Ms Easton that the Haast Airfield be included in the Airport Zone

⁶⁴ Consequential to KiwiRail Holdings Limited (S442.088)

⁶⁵ Minor amendment for consistency throughout the rule

⁶⁶ Minor amendment for clarity and consistency

⁶⁷ Minor technical amendment recommended by Mr Peakall

⁶⁸ Minor amendment for clarity and consistency

⁶⁹ Consequential to KiwiRail Holdings Limited (S442.088)

⁷⁰ Minor technical amendment recommended by Mr Peakall

⁷¹ Consequential to KiwiRail Holdings Limited (S442.088)

7am⁷²; and

ex. The Rifle Range Protection Area Between the 55 dB L_{AFmax} and 60 dB L_{AFmax} contours of the Westport Rifle Range Noise Overlay shown on the planning maps:

i. Any habitable room used for a sensitive activity and/or space used for sleeping must be designed, and constructed and maintained⁷³ to achieve a maximum internal noise level of 35 dB L_{AFmax} from outdoor noise associated with lawfully established activities at the Westport Rifle Range Protection Area; and

ii. an outdoor living area not less than 30m² must shall be screened from the Westport Rifle Range Protection Area to achieve an outdoor noise level not exceeding 50 dB L_{AFmax}.⁷⁴

f. Where windows need to be closed to achieve the internal noise levels specified in a. to ~~ex~~⁷⁵. above an alternative ventilation system shall be provided which achieves the following requirements:

- i. Satisfies clause G4 of the New Zealand Building Code;
- ii. Is adjustable by the occupant to control the ventilation rate in increments up to a high air flow setting that provides at least 6 air changes per hour; and
- iii. Provides relief for equivalent volumes of spill air; and
- iv. Provides cooling and heating that is controllable by the occupant and can maintain the inside temperature between 18°C and 25°C; and
- v. Does not generate more than 35 dB L_{Aeq(30s)} when measured at least⁷⁶ 1m away from any grille or diffuser.

Advice Note:

1. Compliance with Rule NOISE - R3 will be achieved if, prior to the construction of any building containing a new or altered⁷⁷ habitable room and/or space used for sleeping⁷⁸, an acoustic design certificate from a suitably qualified acoustic engineer is provided to the relevant district council stating that the design will achieve compliance with the relevant standard. The building shall be designed, constructed and maintained in accordance with the design certificate; or:

⁷² Minor technical amendment recommended by Mr Peakall

⁷³ Minor amendment for clarity and consistency

⁷⁴ Dean Trott (S330.002), Westport Pistol Club (S336.016), Chris Hartigan (S338.002), Westport Rifle Club Incorporated (S457.009)

⁷⁵ Consequential amendment to inclusion of clause ex

⁷⁶ Minor amendment for clarity

⁷⁷ Consequential to KiwiRail Holdings Limited (S442.088)

⁷⁸ Minor amendment for consistency throughout the rule

2. For Rule R3 1 a i) or Rule R3 1 c i) compliance will be achieved if the construction conforms to the acceptable solutions listed in NOISE-APP1-Acceptable constructions requirement, Part A and meets the ventilation requirements of Rule R3.1.f⁷⁹; or

3. For Rule R3 1 a iii) or Rule R3 1 c iii) compliance will be achieved if the construction conforms to the acceptable solutions listed in NOISE-APP1-Acceptable constructions requirement, Part B and meets the ventilation requirements of Rule R3.1.f.⁸⁰

⁷⁹ KiwiRail Holdings Limited (S442.088)

⁸⁰ Ngāi Tahu (S620.211), Buller District Council (S538.333), Waka Kotahi NZ Transport Agency (S450.171); KiwiRail Holdings Limited (S442.088)

NOISE - R4	Emission of Noise for Temporary Military Training Activities	
<p>Activity Status Permitted</p> <p>Where the following noise standards are complied with:</p> <ol style="list-style-type: none"> 1. Weapons firing and/or the use of explosives: <ol style="list-style-type: none"> a. Notice is provided to the Council at least 5 working days prior to the commencement of the activity; b. The activity complies with the following minimum separation distances to the notional boundary of any building housing a sensitive activity: <ol style="list-style-type: none"> i. 7am to 7pm: 500m; ii. 7pm to 7am: 1-250m⁸¹⁸² c. Where the minimum separation distances specified above cannot be met, the activity shall comply with the following peak sound pressure level when measured at the notional boundary of any building housing a sensitive activity: <ol style="list-style-type: none"> i. 7am to 7pm: 95 dBL_{Cpeak}⁸³; ii. 7pm to 7am: 85 dBL_{Cpeak}⁸⁴. 2. Mobile noise sources: <ol style="list-style-type: none"> a. Shall comply with the noise limits set out in Tables 2 and 3 of NZS6803:1999 Acoustics - Construction Noise, with reference to "construction noise" taken to refer to mobile noise sources. 3. Fixed (stationary) noise sources: <ol style="list-style-type: none"> a. Shall comply with the noise limits set out below when measured at the notional boundary of any building housing a sensitive activity: <ol style="list-style-type: none"> i. 7am to 7pm 55 dB L_{Aeq} (15 min) ii. 7pm to 10pm 50 dB L_{Aeq} (15 min) iii. 10pm to 7am 45 dB L_{Aeq} (15 min) and 75 dB L_{AF} max 	<p>Activity status where compliance not achieved:</p> <p>Restricted Discretionary</p>	

⁸¹ Westport Pistol Club (S336.011), Westport Rifle Club Incorporated (S457.010)

⁸² Minor amendment to refer to same metric as clause above

⁸³ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.538)

⁸⁴ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.538)

NOISE – RX⁸⁵ **Emission of noise for activities not provided for by NOISE-R2, NOISE-R4, NOISE-R9 and NOISE-R10**

Activity Status Permitted

Where:

1. ⁸⁶~~The maximum a~~Noise from any activity shall not exceed the following noise limits at any point at or within the boundary of any site within any⁸⁷ of the following zones:

Zone	Maximum Noise Limit		
	Daytime (Monday– Friday) 7:00am- 10:00pm	Saturdays, Sundays and Public Holidays 7:00 am – 10:00 pm	Night-time 10:00pm-7:00am
<u>RESZ Residential Zone</u> <u>SETZ Settlement Zone</u> <u>MPZ Māori Purpose Zone</u> <u>HOSZ Hospital Zone</u> <u>OSZ Open Space Zone</u> <u>NOSZ Natural Open Space Zone</u> <u>SVZ Scenic Visitor Zone</u> <u>FUZ Future Urban Zone</u>	55 dB L _{Aeq}	50 dB L _{Aeq}	45 dB L _{Aeq} 70 dB L _{Afmax}

2. ⁸⁸~~The maximum a~~Noise from any activity shall not exceed the following noise limits at any point at the notional boundary of any site within any⁸⁹ of the following zones:

Zone	Maximum Noise Limit		
	Daytime (Monday– Friday) 7:00am- 10:00pm	Saturdays, Sundays and Public Holidays 7:00 am – 10:00 pm	Night-time 10:00pm-7:00am
<u>GRUZ General Rural Zone</u> <u>RLZ Rural Lifestyle Zone</u>	55 dB L _{Aeq}	50 dB L _{Aeq}	45 dB L _{Aeq} 70 dB L _{Afmax}

Activity status where compliance not achieved:

Restricted
Discretionary

⁸⁵ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

⁸⁶ Minor amendment to improve clarity

⁸⁷ Minor amendment to improve clarity

⁸⁸ Minor amendment to improve clarity

⁸⁹ Minor amendment to improve clarity

3. The maximum noise from any activity shall not exceed the following noise limits at any point at or within the boundary of any site within any⁹⁰ following zones:

<u>Zone</u>	<u>Maximum Noise Limit</u>		
	<u>Daytime (Monday– Friday) 7:00am- 10:00pm</u>	<u>Saturdays, Sundays and Public Holidays 7:00 am – 10:00 pm</u>	<u>Night-time 10:00pm-7:00am</u>
<u>SARZ Sport and Recreation Zone</u> <u>PORTZ Port Zone</u> <u>AIRPZ Airport Zone</u> <u>CMUZ Commercial and Mixed Use Zones</u> <u>STADZ Stadium Zone</u> <u>LIZ Light Industrial Zone</u>	<u>60 dB LAeq</u>	<u>55 dB LAeq</u>	<u>50 dB LAeq</u> <u>75 dB LAFmax</u>
<u>GIZ General Industrial Zone</u> <u>PORTZ Port Zone</u> <u>BCZ Buller Coalfield Zone</u> <u>MEZ Mineral Extraction Zone</u>	<u>65 dB LAeq</u>	<u>65 dB LAeq</u>	<u>65 dB LAeq</u>

4. Noise from any activity shall not exceed the following noise limits at any point at the notional boundary of any sensitive activity within any of the following zones:

<u>Zone</u>	<u>Maximum Noise Limit</u>		
	<u>Daytime (Monday– Friday) 7:00am- 10:00pm</u>	<u>Saturdays, Sundays and Public Holidays 7:00 am – 10:00 pm</u>	<u>Night-time 10:00pm-7:00am</u>
<u>SARZ Sport and Recreation Zone</u> <u>AIRPZ Airport Zone</u> <u>CMUZ Commercial and Mixed Use Zones</u>	<u>55 dB LAeq</u>	<u>55 dB LAeq</u>	<u>45 dB LAeq</u> <u>75 dB LAFmax</u>

⁹⁰ Minor amendment to improve clarity

<p><u>STADZ Stadium Zone</u></p> <p><u>LIZ Light Industrial Zone</u></p> <p><u>GIZ General Industrial Zone</u></p> <p><u>PORTZ Port Zone</u></p> <p><u>BCZ Buller Coalfield Zone</u></p> <p><u>MINZ Mineral Extraction Zone</u></p>					
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NOISE R5⁹¹	Emission of Noise in the RESZ – Residential Zones, SETZ – Settlement Zone and NOSZ – Natural Open Space Zone	
<p>Activity Status Permitted</p> <p>Where:</p> <p>1. Noise generated by any activity shall not exceed the following noise limits at any point within another site in the RESZ – Residential Zones, SETZ – Settlement Zone and NOSZ – Natural Open Space Zone:</p> <p>a. 7:00am to 7:00pm Monday to Friday and 8:00am to 5:00pm weekends and public holidays: 55 dB L_{Aeq}(15 min)</p> <p>b. 7:00pm to 7:00am Monday to Friday and 5:00pm to 8:00am weekends and public holidays: 45 dB L_{Aeq}(15 min)</p> <p>c. 7:00pm to 7:00am all days - 70 dB L_{AFmax}</p>	<p>Activity status where compliance not achieved:</p> <p>Restricted Discretionary</p>	
NOISE R6⁹²	Emission of Noise in the GRUZ – General Rural Zone, RLZ – Rural Lifestyle Zone, MPZ – Māori Purpose Zone, FUZ – Future Urban Zone, SARZ – Sport and Recreation Zone and OSZ – Open Space Zone.	
<p>Activity Status Permitted</p> <p>Where:</p> <p>4. Noise generated by any activity shall not exceed the following noise limits at any point within the notional boundary of any sensitive activity within any site receiving noise:</p> <p>a. 7:00am to 10:00pm Monday to Friday and 8:00am to 8:00pm weekends and public holidays: 55 dB L_{Aeq}(15 min)</p> <p>b. 10:00pm to 7:00am Monday to Friday and 8:00pm to 8:00am weekends and public holidays: 45 dB L_{Aeq}(15min)</p> <p>c. 10:00pm to 7:00am all days – 75 dB L_{AFmax}</p>	<p>Activity status where compliance not achieved:</p> <p>Restricted Discretionary</p>	

⁹¹ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

⁹² Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

NOISE - R7⁹³	Emission of Noise in all CMUZ – Commercial and Mixed Use Zones, HOSZ – Hospital Zone, STADZ – Stadium Zone and SETZ – PREC2 – Settlement Zone – Settlement Centre Precinct.
Activity Status Permitted Where: 1. Noise generated by any activity shall not exceed the following noise limits at the notional boundary of any sensitive activity within any site receiving noise: a. 6:00am to 11:00pm Monday to Friday and 7:00am to 10:00pm weekends and public holidays: 55 dB L _{Aeq} (15 min) b. 11:00pm to 6:00am Monday to Friday and 10:00pm to 7:00am weekends and public holidays: 45 dB L _{Aeq} (15 min) c. 11:00pm to 6:00am all days – 75 dB L _{AFmax}	Activity status where compliance not achieved: Restricted Discretionary
NOISE - R8⁹⁴	Emission of Noise within the GIZ – General Industrial and LIZ – Light Industrial Zone
Activity Status Permitted Where: 1. Noise generated by any activity shall not exceed the following noise limits at the notional boundary of any sensitive activity within any site receiving noise: a. 7:00am to 10:00pm Monday to Friday and 7:00am to 10:00pm weekends and public holidays: 60 dB L _{Aeq} (15 min) b. 10:00pm to 7:00am Monday to Friday and 10:00pm to 7:00am weekends and public holidays: 45 dB L _{Aeq} (15 min) c. 10:00pm to 7:00am all days – 75 dB L _{AFmax}	Activity status where compliance not achieved: Restricted Discretionary
NOISE - R9	Emission of Noise from Port Activities within the PORTZ - Port Zone
Activity Status Permitted Where: 1. The maximum noise generated from port ⁹⁵ activities is in accordance with the limits, control boundaries and methods of measurement as outlined in NZS 6809: 1999 Acoustics Port Noise Management and Land Use Planning. 2. All activities are conducted in accordance with a Port Noise	Activity status where compliance not achieved: Restricted Discretionary

⁹³ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

⁹⁴ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

⁹⁵ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

Management Plan that is reviewed annually, sets out the details of how NZS 6809 is being implemented, and is publicly available on the port operator's website.⁹⁶

NOISE - R10	Emission of Noise within the AIRPZ - Airport Zone	
<p>Activity Status Permitted</p> <p>Where:</p> <ol style="list-style-type: none"> 1. Noise from aircraft operations at Hokitika and Westport Airports and Greymouth, Haast⁹⁷ and Karamea Aerodromes must be measured and assessed in accordance with NZS 6805: 1992 Airport Noise Management and Land Use Planning; 2. Noise from helicopter operations at Franz Josef Heliport must be measured and assessed in accordance with NZS 6807: 1994 Noise Management and Land Use Planning for Helicopter Landing Areas; <p><u>2X. Noise from essential unplanned engine testing for scheduled passenger services is exempt from NOISE-R10.1 above.</u>⁹⁸</p> <p><u>2Y. Noise from all other engine testing shall comply with the noise limits set out in NOISE-RX.</u>⁹⁹</p> <ol style="list-style-type: none"> 3. The maximum noise levels from aircraft engine testing at any point within the boundary of a site within a RESZ – Residential Zone, MPZ – Māori Purpose Zone or RURZ – Rural Zone shall not exceed: <ol style="list-style-type: none"> a. on any day 7.00am to 10.00pm exceed 55 dB L_{Aeq}(15 hour) b. on any day 10.00pm to 7.00am not exceed 45 dB L_{Aeq}(9 hours) and 75 dB L_{Amax}; and¹⁰⁰ 4. The maximum noise generated from aircraft operations at Hokitika and Westport Airports and Greymouth, Haast Airfield and Karamea Aerodrome¹⁰¹ over any 90 continuous days shall not exceed: <ol style="list-style-type: none"> a. 55 dB L_{dn} at or beyond the noise contour boundary shown on the planning maps; and 5. The maximum noise generated from helicopter operations at Franz Josef Heliport over any 7 continuous days, shall not exceed: <ol style="list-style-type: none"> a. 50 dB L_{dn} at or beyond the noise contour boundary shown on the planning maps; and 	<p>Activity status where compliance not</p>	

⁹⁶ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.544)

⁹⁷ Consequential to recommendation to include Haast Airfield in the Airport Zone

⁹⁸ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.545)

⁹⁹ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.545)

¹⁰⁰ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

¹⁰¹ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.545)

<p>6. Standards 4 and 5 above do not apply to:</p> <ol style="list-style-type: none"> a. Aircraft landing or taking off in an emergency; and b. Emergency flights required to rescue persons from life threatening situations or to transport patients, human organs or medical personnel in medical emergency situations; and c. Aircraft undertaking firefighting duties; and d. Military aircraft movements; and e. Aircraft using the Hokitika Airport in preparation for and participation in air shows. <p>7. In order to audit compliance with this rule, noise level monitoring must be carried out for a minimum of three months every five years with the resulting report forwarded to the Council within one month of that monitoring being completed.</p> <p>7. All activities are conducted in accordance with a Noise Management Plan that is reviewed annually, sets out details of how NZS 6805 or NZS 6807 is being implemented, and is publicly available on the facility operator's website.¹⁰²</p>	
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NOISE R11¹⁰³	Emission of Noise within the BCZ – Buller Coalfield Zone and MEZ – Mineral Extraction Zone	
<p>Activity Status Permitted Where:</p> <ol style="list-style-type: none"> 1. The maximum noise generated from activities does not exceed the following limits at any point within the notional boundary of any sensitive activity within any site receiving noise: <ol style="list-style-type: none"> 1. 7:00am to 10:00pm Monday to Friday and 7:00am to 10:00pm weekends and public holidays: 55 dB L_{Aeq}(15 min) 2. 10:00pm to 7:00am Monday to Friday and 10:00pm to 7:00am weekends and public holidays: 45 dB L_{Aeq}(15 min) 3. 10:00pm to 7:00am all days – 75 dB L_{AEmax} 		<p>Activity status where compliance not achieved: Restricted Discretionary</p>

¹⁰² Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.545)

¹⁰³ Te Mana Ora (Community and Public Health) of the NPHS/ Te Whatu Ora (S190.540) and others

Restricted Discretionary Activities

NOISE - R12	Emission of Noise not meeting Permitted Activity Standards	
<p>Activity Status Restricted Discretionary</p> <p>Discretion is restricted to:</p> <ul style="list-style-type: none"> a. Effects on the health and wellbeing of people; b. Ambient noise levels and any special character noise from any existing activities, the nature and character of any changes to the sound received at any receiving site and the degree to which such sounds are compatible with the surrounding activities; c. The level, hours of operation, duration and nature of the noise; d. The primary purpose and the frequency of use of the activity; e. Proximity and nature of nearby activities and the adverse effects they may experience from the noise; f. Effects on character and amenity values on the surrounding environment; and g. Effects on the health and wellbeing of people;¹⁰⁴ h. Effects on wildlife and habitat values; i. The temporary or permanent nature of any adverse effects; j. Any noise reduction measures;- k. <u>The functional need and/or</u>¹⁰⁵ <u>operational need of the activity.</u>¹⁰⁶ 	<p>Activity status where compliance not achieved:</p> <p>N/A</p>	

¹⁰⁴ Waka Kotahi NZ Transport Agency (S450.172), Buller Conservation Group (S552.156), Frida Inta (S553.156)

¹⁰⁵ Minor amendment for consistency of language throughout the pTTPP

¹⁰⁶ Westpower Limited (S547.490)

NOISE -R13	New Buildings for Use by a Sensitive Activity and Additions to Existing Buildings for Use by a Sensitive Activity not meeting Acoustic Insulation Requirements of Rule NOISE - R3	
Activity Status Restricted Discretionary	Discretion is restricted to: <ol style="list-style-type: none"> The provision of a report from an acoustic specialist which provides evidence that the level of acoustic insulation is appropriate to ensure the amenity of present and future residents of the site; and The impact of any sensitive activity that does not provide the required acoustic insulation on the ability of existing or future permitted business activities to operate or establish without undue constraint. 	Activity status where compliance not achieved: N/A

¹⁰⁷ NOISE -R13A	<u>New Buildings for Use by a Sensitive Activity and Additions to Existing Buildings for Use by a Sensitive Activity within the 60dB L_{AFmax} contour of the Westport Rifle Range Noise Overlay</u>	
<u>Activity Status Restricted Discretionary</u>	<u>Discretion is restricted to:</u> <ol style="list-style-type: none"> <u>The provision of a report from an acoustic specialist which provides evidence that the level of acoustic insulation is appropriate to ensure the amenity of present and future residents of the site; and</u> <u>The impact of any sensitive activity that does not provide the required acoustic insulation on the ability of lawfully established activities at the Westport Rifle Range to operate without undue constraint.</u> 	<u>Activity status where compliance not achieved:</u> <u>N/A</u>

¹⁰⁷ Dean Trott (S330.002), Westport Pistol Club (S336.016), Chris Hartigan (S338.002), Westport Rifle Club Incorporated (S457.009)

Recommended amendments to Definitions

'Audible bird scaring device' means a gas gun, avian distress alarm or other such device used for the purposes of scaring birds.¹⁰⁸

¹⁰⁸ Federated Farmers of New Zealand (S524.103)

Recommended amendments to Appendices

Appendix X – Acceptable Construction Design for Acoustic Insulation Requirements for New Buildings for Use by a Sensitive Activity Subject to Noise R3¹⁰⁹

Part A: Approved construction requirements for compliance with Noise-R3 1 a i) and Noise-R3 1 c i)

Applicability	
	<p>Construction requirements detailed in this appendix are only applicable where:</p> <ol style="list-style-type: none"> 1. <u>The building containing the sensitive activity is located with the State Highway Noise Control Boundary Overlay shown on the planning maps or is within 60m of an Existing Rail Corridor,</u> 2. <u>The building is a single level construction,</u> 3. <u>The floor of the building is a reinforced concrete slab,</u> 4. <u>No habitable room of the building is located less than 4.5 metres from the road boundary,</u> 5. <u>The total area of glazing in any habitable room is no greater than 20% of the total area of external walls of that room.</u> 6. <u>The roof of the building is a standard timber truss design, with a pitch of not less than 15 degrees. Ventilation of the roof space must only be via casual ventilation typical of the jointing, capping and guttering detail used in normal construction.</u> <p>In all other situations, a design report from a suitably qualified acoustics specialist is required.</p>
Construction Options	
Exterior Walls Option 1	<p><u>Exterior cladding of Aerated Concrete or similar, with a surface mass not less than 27 kg/m².</u></p> <ul style="list-style-type: none"> • <u>Timber framing of not less than 90 mm, with studs at 600 mm centres. A ventilated cavity is not required under this option but is permissible, with or without a rigid air barrier,</u> • <u>Fibrous insulation of minimum R2.6. This includes fibreglass, polyester and wool, but does not include polystyrene or other foam sheet insulation products,</u> • <u>1 layer of 10 mm thick Standard Gib board or alternative gypsum board having a surface mass not less than 6 kg/m².</u>
Exterior Walls Option 2	<p><u>Exterior cladding of Profiled sheet metal not less than 0.45 mm thick.</u></p> <ul style="list-style-type: none"> • <u>20 mm thick battens forming a ventilated cavity,</u> • <u>Rigid air barrier consisting of Plywood not less than 9 mm thick or Fibre Cement not less than 4 mm thick,</u>

¹⁰⁹ KiwiRail Holdings Limited (S442.088), Gina Hogarth (S304.002), Misato Nomura (S151.002), Ngāi Tahu (S620.211)

Applicability	
	<p><u>or alternative sheet product having a surface mass not less than 5 kg/m².</u></p> <ul style="list-style-type: none"> • <u>Timber framing of not less than 90 mm, with studs at 600 mm centres,</u> • <u>Fibrous insulation of minimum R2.6. This includes fibreglass, polyester and wool, but does not include polystyrene or other foam sheet insulation products,</u> • <u>1 layer of 10 mm thick Standard Gib board or alternative gypsum board, having a surface mass not less than 6 kg/m².</u>
<p><u>Exterior Walls</u> <u>Option 3</u></p>	<p><u>Exterior cladding of Fibre Cement weatherboards, with a surface mass not less than 18 kg/m² (Hardies Linea or equivalent)</u></p> <ul style="list-style-type: none"> • <u>20 mm thick battens forming a ventilated cavity,</u> • <u>Rigid air barrier consisting of Plywood not less than 7 mm thick or Fibre Cement not less than 4 mm thick, or alternative sheet product having a surface mass not less than 3.8 kg/m².</u> • <u>Timber framing of not less than 90 mm, with studs at 600 mm centres,</u> • <u>Fibrous insulation of minimum R2.6. This includes fibreglass, polyester and wool, but does not include polystyrene or other foam sheet insulation products,</u> • <u>1 layer of 10 mm thick Standard Gib board or alternative gypsum board, having a surface mass not less than 6 kg/m².</u>
<p><u>Glazing and Exterior doors</u> <u>- All options</u></p>	<ul style="list-style-type: none"> • <u>Windows to consist of double glazing consisting of a minimum of 2 layers of 4 mm thick glass separated by a 12 mm airgap, with airtight seals,</u> • <u>External doors to be either double glazed to the same standard as windows, or be a solid timber construction with a surface mass not less than 24 kg/m² and incorporating full perimeter seals.</u>
<p><u>Roof – All Options</u></p>	<ul style="list-style-type: none"> • <u>Profiles metal roofing not less than 0.45 mm thick profiled steel or tiles,</u> • <u>Fibrous insulation of minimum R6. This includes fibreglass, polyester and wool, but does not include polystyrene or other foam sheet insulation products,</u> • <u>2 layers of 10 mm Standard Gib board or alternative gypsum board, with each layer having a surface mass not less than 6 kg/m².</u>

Part B: Approved construction requirements for compliance with Noise-R3 1 a iii) and Noise-R3 1 c iii)

Any new buildings or alterations to existing buildings containing a sensitive activity, closer than 60 metres to the boundary of an Existing Rail Corridor and is a single storey framed building with:

-
- a. a constant level floor slab on a full-surface vibration isolation bearing with natural frequency not exceeding 10 Hz, installed in accordance with the supplier's instructions and recommendations; and
 - b. b. vibration isolation separating the sides of the floor slab from the ground; and
 - c. c. no rigid connections between the building and the ground

In all other situations, a design report from a suitably qualified specialist is required demonstrating Compliance with Rule R3 1 c iii).

New buildings and alterations must meet the ventilation requirements of Rule R3.1.f¹¹⁰

¹¹⁰ KiwiRail Holdings Limited (S442.088)