



Healthy Homes Compliance Report

Property details

Date 11/02/2021
Address 12b Tither St, Huntly
Property photo



Heating

Heating guidelines

Landlords must provide one or more fixed heaters that can directly heat the main living room to a maintained temperature of at least 18 degrees Celsius. The calculations for this property are based on the tenancy services heating tool results.

Does the heating at this property meet Healthy Homes requirements?

Meets requirements

Based on the Healthy homes heating calculator the required amount of Kw required is

2.7kw

Is there a compliant heat source present?

Yes

What is the existing heat type

Wood burner

What is the existing KW's

3.2kw

Is additional heating required

No

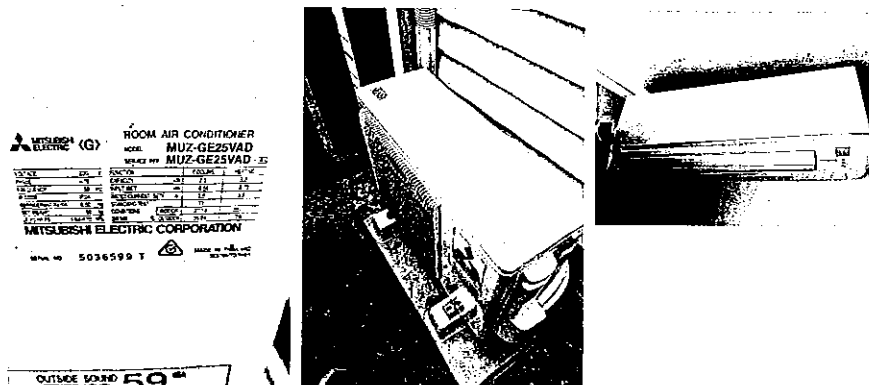
Amount of additional KW required

N/A

Additional comments

There is also a open fire place installed that is not a compliant heat source.

Photo





Healthy Homes Compliance Report

Tenancy Services

Home Heating Assessment Tool

Heating Assessment Tool

Results
Enter a property result

How to provide this heating
requirement

You need **2.7kW** of heating
capacity to heat your living
room

This is the minimum required heating
capacity you need to meet the healthy
homes standards, based on the
information you supplied. It takes into
account your local climate and the design
and construction of your home. The tool
makes some assumptions to keep things
simple.

Ventilation

Ventilation Guidelines

Rental property's must have openable windows in the living room, dining room, kitchen and bedrooms. Kitchens and bathrooms must have extractor fans.

Kitchen - Ventilation

Area

Does the kitchen ventilation
meet Healthy Homes
requirements?

Does not meet requirements

Is a kitchen extractor fan
present?

No

Is the fan in good working
condition?

N/A

Is the fan ducted to outside?

N/A

Is there at least one window,
door or skylight that can be
opened with an area of 5% or
more of the rooms total floor
area?

N/A

Ducting diameter

Additional comments

There is currently no extractor fan installed in the kitchen. A new extractor fan is required and it must have a minimum diameter (including ducting) of 150mm or an exhaust capacity of at least 50 litres per second. This can be an extractor fan or range hood & must be ducted to outside

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Bathroom - Ventilation

Area

Does the bathroom ventilation meet Healthy Homes requirements?

Does not meet requirements

Is a bathroom extractor fan present?

No

Is the fan in good working condition?

N/A

Is the fan ducted to outside?

N/A

Ducting diameter

Additional comments including installation date (if labeled) and ducting diameter

There is currently no extractor fan installed in the Bathroom. A new extractor fan is required and it must have a minimum diameter (including ducting) of 120mm or an exhaust capacity of at least 25 litres per second. This must be ducted to outside.

Photo



Additional rooms - Ventilation

Area

Lounge, Dining, Bedrooms

Does the ventilation in this room meet Healthy Homes requirements?

Meets requirements

Is there at least one window, door or skylight that can be opened with an area of 5% or more of the rooms total floor area?

Yes



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Can the window, door or skylight be fixed open to allow ventilation?

Yes

Additional comments

Photo

Draught stopping

Draught stopping guidelines

Landlords must make sure the property doesn't have unreasonable gaps or holes in walls, ceilings, windows, skylights, floors and doors which cause noticeable draughts. All unused open fireplaces closed off or their chimneys must be blocked to prevent draughts.

Are there any open fireplaces present?

Yes

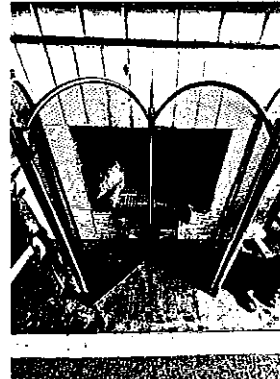
Do they require blocking to prevent draughts?

Yes

Additional comments

The open fire place requires blocking to ensure there is no draughts. This can be left as is if both the tenants and landlords agree in written. Please note this is not a compliant heat source

Photo



Additional rooms - Draught stopping

Area

Kitchen window

Does this room meet Healthy Homes draught stopping requirements?

Meets requirements

Are there any areas where there is draughts or potential draughts could occur?

Yes

Additional comments

The kitchen window has a gap allowing a draught, draught stopping foam installed on the inside edge of the window frame should fix this.

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Photo



Additional rooms - Draught stopping (1)

Area	Dining, Lounge, Bedrooms, Bathroom
Does this room meet Healthy Homes draught stopping requirements?	Meets requirements
Are there any areas where there is draughts or potential draughts could occur?	No
Additional comments	Good tight closing joinery and gaps filled with draught stopping foam already.

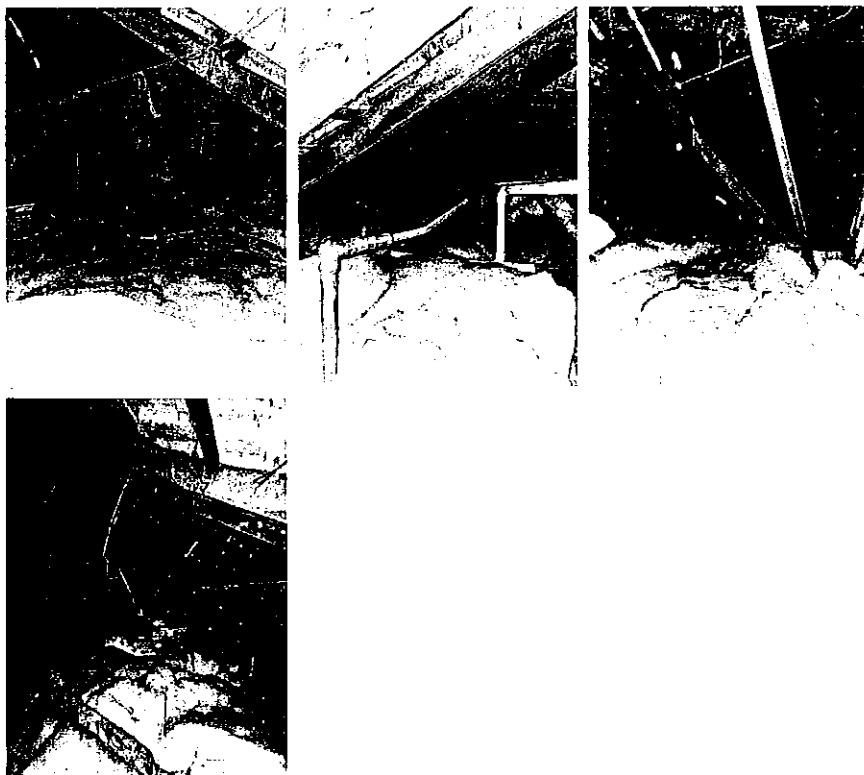
Photo

Ceiling insulation

Ceiling insulation guidelines	Ceiling and underfloor insulation has been compulsory in all rental homes since 1 July 2019. The healthy homes insulation standard builds on the current regulations and some existing insulation will need to be topped up or replaced. Ceiling insulation installed prior to 1 July 2016 must have an Rvalue of R2.9 or be consistently above 120mm in thickness. All rental property's must have underfloor insulation installed with a minimum Rvalue of R1.3.
Does the ceiling insulation at this property meet Healthy Homes requirements?	Meets Requirements
Existing insulation type	Polyester blanket
Existing insulation R value	Unknown no label present, likely R2.9-R3.6
Existing insulation thickness	170mm
Existing insulation condition	Good
Areas where existing insulation is installed	Insulation is installed throughout the ceiling space above all habital areas
Additional comments	

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Photo



Underfloor insulation

Underfloor insulation guidelines	Underfloor insulation needs a minimum R value of 1.3 and be in reasonable condition.
Does the underfloor insulation at this property meet Healthy Homes requirements?	Meets Requirements
Existing insulation type	Polyester
Existing insulation R value	R1.5
Existing insulation thickness	100mm
Existing insulation condition	Good
Areas where existing insulation is installed	Insulation is installed throughout the underfloor space below all habital spaces
Additional comments	

Photo



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Moisture ingress and drainage

Moisture ingress and drainage

Rental properties must have efficient drainage for the removal of storm water, surface water and ground water. Rental properties with an enclosed sub-floor space must have a ground moisture barrier. A subfloor is enclosed if the airflow into and out of the space is significantly obstructed along at least 50 per cent of the perimeter of the subfloor space. Air flow may be obstructed by wood slats, masonry walls, soil, adjoining structures etc.

Weather conditions on the day of inspection

Overcast

Guttering

Does guttering at this property meet Healthy Homes requirements?

Does not meet requirements

Are there gutters present at the property?

Yes

Are gutters in good condition with no breaks and attached to the property correctly?

Yes

Are gutters connected to down pipes correctly?

Yes

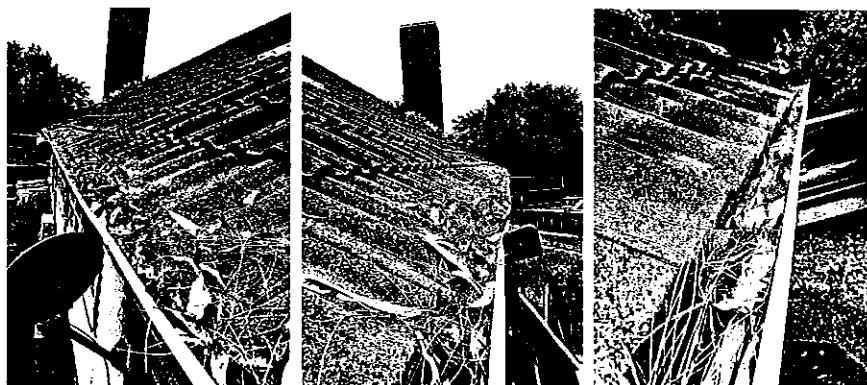
Are gutters clear of blockages and debris?

No

Additional comments

Gutters require cleaning as they are blocked by debris. Annual maintenance recommended due to near by trees

Photo



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Down pipes and drainage

Do the down pipes and drainage meet Healthy Homes requirements? Meets requirements

Do all down pipes lead to an adequate drain? Yes

Are drains clear of blockages and debris? Yes

Is there any sign of surface water near house due to inadequate drainage? No

Additional comments

Photo

Ground moisture barrier

Ground moisture barrier guidelines Rental properties with an enclosed subfloor or where a subfloor is obstructed by at least 50% by either fiber cement sheets, wood slatting, masonry foundation walls or anything else that restricts airflow in to the subfloor requires a ground moisture barrier to be installed.

Does the subfloor meet Healthy Homes ground moisture barrier requirements? Exempt

Does the subfloor meet the criteria of being classed as enclosed? No

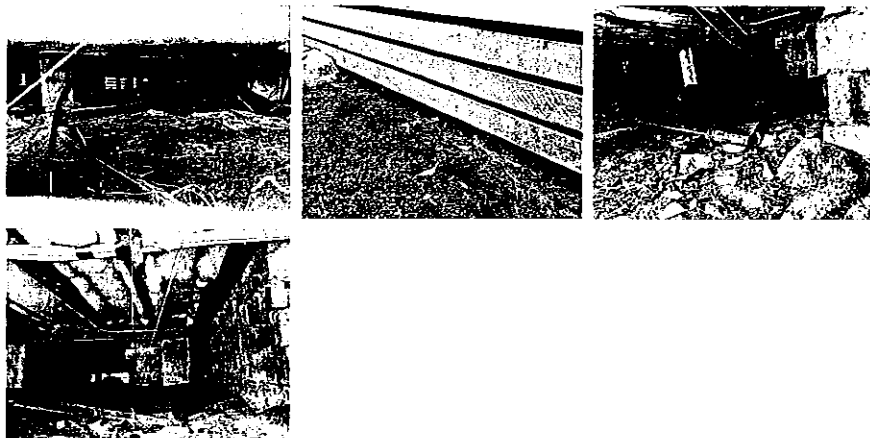
Does the subfloor have an existing ground moisture barrier installed? N/A

If there is an existing ground moisture barrier, is it in reasonable condition? N/A

Additional comments Subfloor is exempt from a ground moisture barrier due to having spaced out wood slats around the perimeter of the house allowing for good air flow.
 There is a ground moisture barrier installed in some areas currently.

Healthy Homes Compliance Report

Photo



Disclaimer

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Healthy homes current level of compliance summary

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Property address	12b Tither St, Huntly
Date of assessment	11/02/2021
Disclaimer	This document is a true and factual representation of the property's current compliance at the date the assessment was carried out. Healthy Homes Services takes no responsibility for changes made to the property after the date of assessment

Heating

Required heating in main living area	Meets requirements - The current fixed heat source meets the capacity required to heat the main living area
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Ventilation

Ventilation - Kitchen(s)	Further amendment is required
Ventilation - Bathroom(s)	Further amendment is required
Ventilation - opening windows in the living room, dining room, kitchen and bedrooms	Meets requirements - Each room has openable windows, doors or skylights that are at least 5% of the floor area of each room and meets the ventilation standard

Draught stopping

No unreasonable gaps throughout	Further amendment is required
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Insulation

Ceiling insulation	Meets requirements – Ceiling insulation is installed in all accessible areas in the roof cavity and is installed in accordance with New Zealand standard 4246:2016 and meets the insulation standard
Underfloor insulation	Meets requirements – Underfloor insulation is installed in all accessible areas in the subfloor and is installed in accordance with New Zealand standard 4246:2016 and meets the insulation standard

Moisture Ingress and drainage

Guttering down pipes and drainage	Further amendment is required
Ground moisture barrier	Exempt - Subfloor is not classed as enclosed and has sufficient air flow a ground moisture barrier is not required

Heating Report

Report Details

This report was generated by
**Healthy homes
services**

Address of rental property
12b Tither St, Huntly

Name of landlord
Ljhooker Huntly

Report was generated on
**11 February 2021
01:32pm**

How to provide this heating requirement

You need 2.7kW of heating capacity to heat your living room

This is the minimum required heating capacity you need to meet the healthy homes standards, based on the information you supplied. It takes into account your local climate and the design and construction of your home. The tool makes some assumptions to keep things simple.

Your heating needs to provide this heating capacity with an outdoor temperature of -2°C

Heat pump installers need to know the outdoor temperature to work to. This is because the heating capacity of a heat pump reduces with colder outdoor temperatures. If you live somewhere cold, you may need a particular model of heat pump to give enough heating capacity.

Choose the right type and size of heater

You can provide this heating capacity using one or more heaters. But each heater must meet the requirements in the healthy homes standards.

Your heater(s) must be fixed and not portable. They must each be at least 1.5 kW in heating capacity.

Your heater must not be an open fire or an unflued combustion heater, eg portable LPG bottle heaters. If you use a heat pump or an electric heater, it must have a thermostat. You cannot use an electric heater for a required heating capacity over 2.4 kW unless you're 'topping up' existing heating. Smaller 'top up' heaters must meet certain conditions (see below).

The healthy homes standards treat heat pumps differently from other electric heaters. Where the tool refers to an 'electric heater', this means an electric heater that is not a heat pump.

In most cases, the right type of heater will be a larger fixed heating device like a heat pump, wood burner, pellet burner or flued gas heater. In some cases, eg small apartments, a smaller fixed electric heater will be enough. For more information about different heating options visit the [Energy Efficiency and Conservation Authority's website \(https://www.energywise.govt.nz/at-home/heating-and-cooling/\)](https://www.energywise.govt.nz/at-home/heating-and-cooling/).

You can still use heaters that don't meet these requirements. They won't need to be removed but they can't contribute to the heating capacity you need to meet the healthy homes standards.

Top up existing heating

If you're adding a new heater to a room with existing heating, each heater must meet the requirements in the healthy homes standards, with one exception. If your existing heating doesn't have the required heating capacity, you can add a smaller fixed electric heater to 'top up' your heating. If you do, you must meet all these conditions:

- you installed your existing heating before 1 July 2019
- each of your existing heaters meets the general requirements for heaters (listed above) and is not an electric heater (except for a heat pump)
- the required heating capacity is more than 2.4 kW, and
- the 'top up' you need is 1.5 kW or less.

For example, if you have a heat pump with a heating capacity of 3.3 kW, but you need a total heating capacity of 4.5 kW, you can add a fixed 1.5 kW electric heater with a thermostat to meet the standard. See further examples below.

You don't need to add more heating if you have one or more existing large heaters that meet all these conditions:

- were installed before 1 July 2019
- each have a heating capacity greater than 2.4 kW
- meet the requirements in the standards, and
- have a total heating capacity that's at least 90% of what you need.

Disclaimer

This tool is a 'heating capacity calculator' for the purposes of the Residential Tenancies (Healthy Homes Standards) Regulations 2019. As well as determining the required heating capacity, the Heating Assessment Tool will also provide information about the type of heating device that, if installed, would achieve compliance with the heating standard.

When the Heating Assessment Tool is used correctly it is intended to presume the required heating capacity for the main living room of a specific rental premises. Any person using it in good faith is entitled to rely on the report produced as being the correct result based on the information entered. Misuse of the Heating Assessment Tool may cause an incorrect result and impact on a landlord's compliance with the heating standard. [Read the full disclaimer. \(https://www.tenancy.govt.nz/about-tenancy-services/disclaimer/#id_30551108-heating-assessment-tool-disclaimer\)](https://www.tenancy.govt.nz/about-tenancy-services/disclaimer/#id_30551108-heating-assessment-tool-disclaimer)

Examples

Here are some examples showing a required heating capacity and how you could provide heating that meets the healthy homes standards.

Example 1:

You need a total heating capacity of 5 kW. You have a heat pump, installed in 2018, with a heating capacity of 3.7 kW. You can add a fixed electric heater that is at least 1.5 kW to 'top up' your heating.

Example 2:

You need a total heating capacity of 8 kW. You have a fixed heat pump with a heating capacity of 4 kW and an unflued gas heater with a heating capacity of 3 kW. The unflued gas heater is an unacceptable heater type, which means it can't contribute to the required heating capacity. You can meet the standards by installing a 4 kW (or larger) qualifying fixed heater where it can heat the main living room directly. You cannot add an electric heater to 'top up' your heating because the 'top up' you need is over 1.5 kW.

Example 3:

You need a total heating capacity of 3.5 kW. You have a fixed heat pump with a thermostat and heating capacity of 3.3 kW, installed in 2014. You don't need to add any more heating because your existing heating is a qualifying, larger heater that achieves at least 90% of the required heating capacity.

Rental property details

About your home

Your home's age and location

When was your home built: **Before 1978**

Region: **Waikato**

Council rates paid to: **Waikato District Council**

Zone: **1**

Assumed external temperature: **-2°C**

About your living room

Main living room

Main living room area: **16m²**

Number of staircases: **0**

Additional level 1 area: **0m²**

Additional level 2 area: **0m²**

Level 1

Wall 1

Type of wall: **external**

Length: **3.13m**

Height: **2.40m**

Area: **7.51m²**

Calculated area: **7.51m²**

R-Value: **0.5**

Default R-Value **0.5**

Wall Transmission Heat Loss: **0.59kW**

Number of windows: **1**

Number of door glazing: **0**

Wall 1: Window 1

Glazing type: **single**

Length: **2.60m**

Height: **1.20m**

Area: **3.12m²**

Calculated area: **3.12m²**

R-Value: **0.15**

Default R-Value **0.15**

Wall 2

Type of wall: **internal**

Length: **4.85m**

Height: **2.40m**

Area: **11.64m²**

Calculated area: **11.64m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.29kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 3

Type of wall: **internal**

Length: **3.65m**

Height: **2.40m**

Area: **8.76m²**

Calculated area: **8.76m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.22kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 4

Type of wall: **internal**

Length: **1.84m**

Height: **2.40m**

Area: **4.42m²**

Calculated area: **4.42m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.11kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 5

Type of wall: **internal**

Length: **0.66m**

Height: **2.40m**

Area: **1.58m²**

Calculated area: **1.58m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.04kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 6

Type of wall: **internal**

Length: **3.00m**

Height: **2.40m**

Area: **7.20m²**

Calculated area: **7.20m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.18kW**

Number of windows: **0**

Number of door glazing: **0**

Floor:

Floor Area: **16.39m²**

Space below floor: **external**

Standards compliance: **all**

Standards percentage: **100%**

Standards area: **16.39m²**

Standards R-Value **1.5**

Standards R-Value default **1.3**

Non-standards percentage: **0%**

Non-standards area: **0.00m²**

Non-standards R-Value **0**

Non-standards R-Value default **0.5**

Internal percentage: **0%**

Internal R-Value **0**

Internal R-Value default **0.5**

External percentage: **100%**

External R-Value **1.5**

External R-Value default **1.3**

Total area: **16.39m²**

Internal area: **0.00m²**

External area: **16.39m²**

Internal Transmission Heat Loss: **0.00kW**

External Transmission Heat Loss: **0.22kW**

Standards Transmission Heat Loss: **0.22kW**

Non-standards Transmission Heat Loss: **0.00kW**

Total Transmission Heat Loss: **0.22kW**

Ceiling:

Floor Area: **16.39m²**

Shape of ceiling: **flat**

Space above ceiling: **external**

Standards percentage: **100%**

Standards area: **16.39m²**

Standards R-Value **2.9**

Standards R-Value default **2.4**

Non-standards percentage: **0%**

Non-standards area: **0.00m²**

Non-standards R-Value: **0**

Non-standards R-Value default: **0.35**

Internal percentage: **0%**

Internal R-Value: **0**

Internal R-Value default: **0.5**

External percentage: **100%**

External R-Value: **2.9**

External R-Value default: **2.4**

Flat area: **16.39m²**

Irregular area: **0.00m²**

Total area: **16.39m²**

Internal area: **0.00m²**

External area: **16.39m²**

Internal Transmission Heat Loss: **0.00kW**

External Transmission Heat Loss: **0.11kW**

Standards Transmission Heat Loss: **0.11kW**

Non-standards Transmission Heat Loss: **0.00kW**

Total Transmission Heat Loss: **0.11kW**

Number of skylights: **0**

Level Summary:

Volume of Level: **39.34m³**

Transmission Heat Loss: **1.76kW**

Ventilation Heat Loss: **0.27kW**

Additional heating-up power: **0.66kW**

Result

Transmission Heat Loss: **1.76kW**

Ventilation Heat Loss: **0.27kW**

Additional heating-up power: **0.66kW**

Heat load of the heated space: **2.7kW**

Heat load of the heated space (w/o heating-up power):**2.03kW**

Healthy Homes Compliance Report

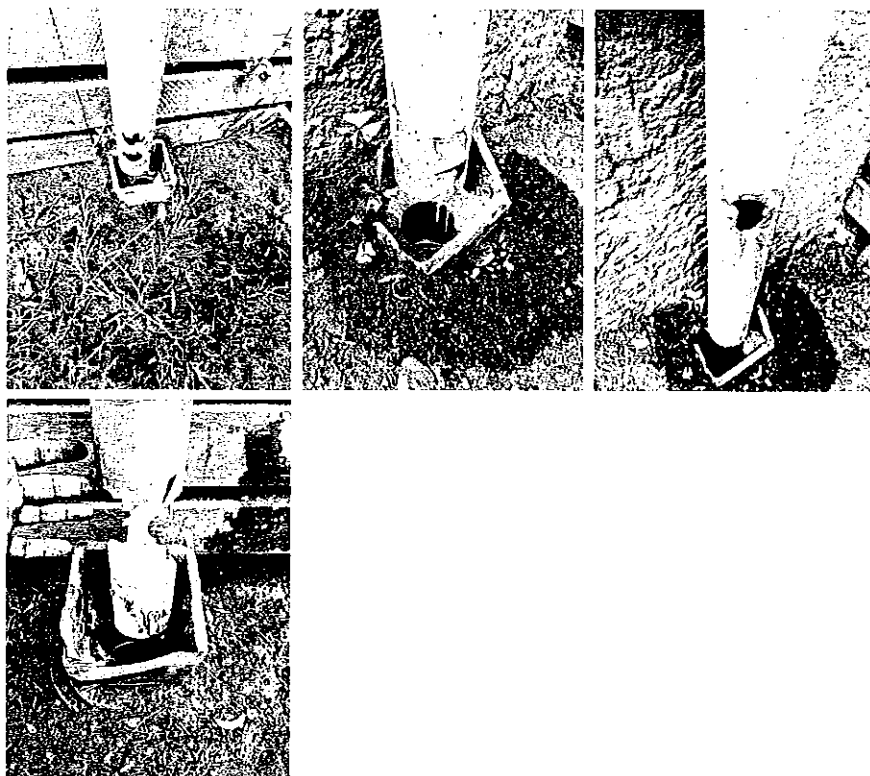
Is there any sign of surface water near house due to inadequate drainage

Yes

Additional comments

All three down pipes have damage near the base, these sections should be replaced to ensure water isn't missing the drain and running underneath the house

Photo



Ground moisture barrier

Ground moisture barrier guidelines

Rental properties with an enclosed subfloor or where a subfloor is obstructed by at least 50% by either fiber cement sheets, wood slatting, masonry foundation walls or anything else that restricts airflow in to the subfloor requires a ground moisture barrier to be installed.

Does the subfloor meet Healthy Homes ground moisture barrier requirements?

Exempt

Does the subfloor meet the criteria of being classed as enclosed?

No

Does the subfloor have an existing ground moisture barrier installed?

N/A

If there is an existing ground moisture barrier, is it in reasonable condition?

N/A

Additional comments

Subfloor is exempt from a ground moisture barrier due to having spaced out wood slats around the perimeter of the house allowing for good air flow. However there is a ground moisture barrier installed here and in good condition

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Ventilation

Ventilation - Kitchen(s)	Further amendment is required
Ventilation - Bathroom(s)	Meets requirements - The Bathroom(s) has an extractor fan vented to the outside and meets the ventilation standard
Ventilation - opening windows in the living room, dining room, kitchen and bedrooms	Meets requirements - Each room has openable windows, doors or skylights that are at least 5% of the floor area of each room and meets the ventilation standard

Draught stopping

No unreasonable gaps throughout	Meets requirements – There is no unreasonable gaps or holes in walls, ceilings, windows, skylights, floors and doors that cause noticeable draughts and meets the draught stopping standard
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Insulation

Ceiling insulation	Meets requirements – Ceiling insulation is installed in all accessible areas in the roof cavity and is installed in accordance with New Zealand standard 4246:2016 and meets the insulation standard
Underfloor insulation	Meets requirements – Underfloor insulation is installed in all accessible areas in the subfloor and is installed in accordance with New Zealand standard 4246:2016 and meets the insulation standard

Moisture Ingress and drainage

Guttering down pipes and drainage	Further amendment is required
Ground moisture barrier	Exempt - Subfloor is not classed as enclosed and has sufficient air flow a ground moisture barrier is not required

Heating Report

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**Healthy homes
services**

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Name of landlord
Ljhooker Huntly

Report was generated on
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Your heating needs to provide this heating capacity with an outdoor temperature of -2°C

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Choose the right type and size of heater

You can provide this heating capacity using one or more heaters. But each heater must meet the requirements in the healthy homes standards.

Your heater(s) must be fixed and not portable. They must each be at least 1.5 kW in heating capacity.

Your heater must not be an open fire or an unflued combustion heater, eg portable LPG bottle heaters. If you use a heat pump or an electric heater, it must have a thermostat. You cannot use an electric heater for a required heating capacity over 2.4 kW unless you're 'topping up' existing heating. Smaller 'top up' heaters must meet certain conditions (see below).

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You can still use heaters that don't meet these requirements. They won't need to be removed but they can't contribute to the heating capacity you need to meet the healthy homes standards.

Top up existing heating

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- you installed your existing heating before 1 July 2019
- each of your existing heaters meets the general requirements for heaters (listed above) and is not an electric heater (except for a heat pump)
- the required heating capacity is more than 2.4 kW, and
- the 'top up' you need is 1.5 kW or less.

For example, if you have a heat pump with a heating capacity of 3.3 kW, but you need a total heating capacity of 4.5 kW, you can add a fixed 1.5 kW electric heater with a thermostat to meet the standard. See further examples below.

You don't need to add more heating if you have one or more existing large heaters that meet all these conditions:

- were installed before 1 July 2019
- each have a heating capacity greater than 2.4 kW
- meet the requirements in the standards, and
- have a total heating capacity that's at least 90% of what you need.

Disclaimer

This tool is a 'heating capacity calculator' for the purposes of the Residential Tenancies (Healthy Homes Standards) Regulations 2019. As well as determining the required heating capacity, the Heating Assessment Tool will also provide information about the type of heating device that, if installed, would achieve compliance with the heating standard.

When the Heating Assessment Tool is used correctly it is intended to presume the required heating capacity for the main living room of a specific rental premises. Any person using it in good faith is entitled to rely on the report produced as being the correct result based on the information entered. Misuse of the Heating Assessment Tool may cause an incorrect result and impact on a landlord's compliance with the heating standard. [Read the full disclaimer. \(https://www.tenancy.govt.nz/about-tenancy-services/disclaimer/#id_30551108-heating-assessment-tool-disclaimer\)](https://www.tenancy.govt.nz/about-tenancy-services/disclaimer/#id_30551108-heating-assessment-tool-disclaimer)

Examples

Here are some examples showing a required heating capacity and how you could provide heating that meets the healthy homes standards.

Example 1:

You need a total heating capacity of 5 kW. You have a heat pump, installed in 2018, with a heating capacity of 3.7 kW. You can add a fixed electric heater that is at least 1.5 kW to 'top up' your heating.

Example 2:

You need a total heating capacity of 8 kW. You have a fixed heat pump with a heating capacity of 4 kW and an unflued gas heater with a heating capacity of 3 kW. The unflued gas heater is an unacceptable heater type, which means it can't contribute to the required heating capacity. You can meet the standards by installing a 4 kW (or larger) qualifying fixed heater where it can heat the main living room directly. You cannot add an electric heater to 'top up' your heating because the 'top up' you need is over 1.5 kW.

Example 3:

You need a total heating capacity of 3.5 kW. You have a fixed heat pump with a thermostat and heating capacity of 3.3 kW, installed in 2014. You don't need to add any more heating because your existing heating is a qualifying, larger heater that achieves at least 90% of the required heating capacity.

Rental property details

About your home

Your home's age and location

When was your home built: **Before 1978**

Region: **Waikato**

Council rates paid to: **Waikato District Council**

Zone: **1**

Assumed external temperature: **-2°C**

About your living room

Main living room

Main living room area: **16m²**

Number of staircases: **0**

Additional level 1 area: **0m²**

Additional level 2 area: **0m²**

Level 1

Wall 1

Type of wall: **external**

Length: **3.13m**

Height: **2.40m**

Area: **7.51m²**

Calculated area: **7.51m²**

R-Value: **0.5**

Default R-Value **0.5**

Wall Transmission Heat Loss: **0.59kW**

Number of windows: **1**

Number of door glazing: **0**

Wall 1: Window 1

Glazing type: **single**

Length: **2.60m**

Height: **1.20m**

Area: **3.12m²**

Calculated area: **3.12m²**

R-Value: **0.15**

Default R-Value **0.15**

Wall 2

Type of wall: **internal**

Length: **4.85m**

Height: **2.40m**

Area: **11.64m²**

Calculated area: **11.64m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.29kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 3

Type of wall: **internal**

Length: **3.65m**

Height: **2.40m**

Area: **8.76m²**

Calculated area: **8.76m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.22kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 4

Type of wall: **internal**

Length: **1.84m**

Height: **2.40m**

Area: **4.42m²**

Calculated area: **4.42m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.11kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 5

Type of wall: **internal**

Length: **0.66m**

Height: **2.40m**

Area: **1.58m²**

Calculated area: **1.58m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.04kW**

Number of windows: **0**

Number of door glazing: **0**

Wall 6

Type of wall: **internal**

Length: **3.00m**

Height: **2.40m**

Area: **7.20m²**

Calculated area: **7.20m²**

R-Value: **0.4**

Default R-Value **0.4**

Wall Transmission Heat Loss: **0.18kW**

Number of windows: **0**

Number of door glazing: **0**

Floor:

Floor Area: **16.39m²**

Space below floor: **external**

Standards compliance: **all**

Standards percentage: **100%**

Standards area: **16.39m²**

Standards R-Value **1.5**

Standards R-Value default **1.3**

Non-standards percentage: **0%**

Non-standards area: **0.00m²**

Non-standards R-Value **0**

Non-standards R-Value default **0.5**

Internal percentage: **0%**

Internal R-Value **0**

Internal R-Value default **0.5**

External percentage: **100%**

External R-Value **1.5**

External R-Value default **1.3**

Total area: **16.39m²**

Internal area: **0.00m²**

External area: **16.39m²**

Internal Transmission Heat Loss: **0.00kW**

External Transmission Heat Loss: **0.22kW**

Standards Transmission Heat Loss: **0.22kW**

Non-standards Transmission Heat Loss: **0.00kW**

Total Transmission Heat Loss: **0.22kW**

Ceiling:

Floor Area: **16.39m²**

Shape of ceiling: **flat**

Space above ceiling: **external**

Standards percentage: **100%**

Standards area: **16.39m²**

Standards R-Value **2.9**

Standards R-Value default **2.4**

Non-standards percentage: **0%**

Non-standards area: **0.00m²**

Non-standards R-Value: **0**

Non-standards R-Value default: **0.35**

Internal percentage: **0%**

Internal R-Value: **0**

Internal R-Value default: **0.5**

External percentage: **100%**

External R-Value: **2.9**

External R-Value default: **2.4**

Flat area: **16.39m²**

Irregular area: **0.00m²**

Total area: **16.39m²**

Internal area: **0.00m²**

External area: **16.39m²**

Internal Transmission Heat Loss: **0.00kW**

External Transmission Heat Loss: **0.11kW**

Standards Transmission Heat Loss: **0.11kW**

Non-standards Transmission Heat Loss: **0.00kW**

Total Transmission Heat Loss: **0.11kW**

Number of skylights: **0**

Level Summary:

Volume of Level: **39.34m³**

Transmission Heat Loss: **1.76kW**

Ventilation Heat Loss: **0.27kW**

Additional heating-up power: **0.66kW**

Result

Transmission Heat Loss: **1.76kW**

Ventilation Heat Loss: **0.27kW**

Additional heating-up power: **0.66kW**

Heat load of the heated space: **2.7kW**

Heat load of the heated space (w/o heating-up power): **2.03kW**

