

Date:	8/28/2023	Healthy Homes Data Input		
Project Name:	7422 - Healthy Homes Review, 1516 Small Studio			
Property Address:	5 Whitaker Place, Grafton, Auckland 1010			
Region:	Auckland	Heating Zone	1	
Territorial authority:	Auckland	External Temperature (°C)	1	

Main Living Room	Floor			Walls				Ceiling				Heating Minimum Heating Requirement (kW)	
	Stud Height (m)	External Floor Area (m <sup>2</sup> )	Internal Floor Area (m <sup>2</sup> )	Intertenancy Floor Area (m <sup>2</sup> )	External Wall Area (m <sup>2</sup> )	Internal Wall Area (m <sup>2</sup> )	Intertenancy Wall Area (m <sup>2</sup> )	Window Area (m <sup>2</sup> )	External Ceiling Area (m <sup>2</sup> )	Skylight Area (m <sup>2</sup> )	Internal Ceiling Area (m <sup>2</sup> )		Intertenancy Ceiling Area (m <sup>2</sup> )
Input	2.6	0	0	0	7.0	0	0	1.2	0	0	0	0	0.474
R-Value		0.3	0.3	0.3	0.4	0.3	0.3	0.37	1.9	0.3	0.3	0.3	

Constants	
Required internal Temperature (b)	18.00
Air change rate (y)	0.50
Temperature adjustment factor (g)	0.25
Assumed air density*specific heat of air (z)	0.34 Wh/m <sup>3</sup> K

Variables	
Floor area (f)	12.26 m <sup>2</sup>
Internal volume (w)	31.876 m <sup>3</sup>
Ventilation Heat loss (v)	92.12 W
Internal heat loss (e)	0.00 W/°C
External heat loss (d)	17.79 W/°C
Transmission Heat Loss (t)	302.49 W

Heating capacity required in main living room determined by Schedule 2 of the Residential Tenancies (Healthy Homes) Regulations 2019 & 2022 Amendment

Amended May 2022 - ensure it is a modern dwelling or relevant apartment

**modern dwelling**, in relation to premises or a tenancy building, means premises or a tenancy building that first received building consent—

- (a) on or after the following date for its zone:
  - (i) 30 September 2008, for zone 1:
  - (ii) 30 June 2008, for zone 2:
  - (iii) 31 October 2007, for zone 3; or
- (b) before the applicable date in paragraph (a) if—
  - (i) insulation and glazing have been installed throughout the thermal envelope of the premises or tenancy building; and
  - (ii) the insulation and glazing meets or exceeds NZS 4218:2009 for that zone

**relevant apartment** means premises in a tenancy building that consists of 3 storeys or more and contains 6 or more commercial or residential premises

Building Services Engineering  
**22degrees**

7422  
WHITAKER PLACE  
GRAFTON  
HH CALCS



DATE	CALC	APPROVED
28.08.23	EMC	JOG

Date:	8/28/2023	Healthy Homes Data Input		
Project Name:	7422 - Healthy Homes Review, 1517 Large Studio			
Property Address:	5 Whitaker Place, Grafton, Auckland 1010			
Region:	Auckland	Heating Zone	1	
Territorial authority:	Auckland	External Temperature (°C)	1	

Main Living Room	Floor			Walls				Ceiling				Heating Minimum Heating Requirement (kW)	
	Stud Height (m)	External Floor Area (m <sup>2</sup> )	Internal Floor Area (m <sup>2</sup> )	Intertenancy Floor Area (m <sup>2</sup> )	External Wall Area (m <sup>2</sup> )	Internal Wall Area (m <sup>2</sup> )	Intertenancy Wall Area (m <sup>2</sup> )	Window Area (m <sup>2</sup> )	External Ceiling Area (m <sup>2</sup> )	Skylight Area (m <sup>2</sup> )	Internal Ceiling Area (m <sup>2</sup> )		Intertenancy Ceiling Area (m <sup>2</sup> )
Input	2.6	0	0	0	5.5	0	0	1.2	0	0	0	0	0.397
R-Value		0.3	0.3	0.3	0.4	0.3	0.3	0.37	1.9	0.3	0.3	0.3	

Constants	
Required internal Temperature (b)	18.00
Air change rate (y)	0.50
Temperature adjustment factor (g)	0.25
Assumed air density*specific heat of air (z)	0.34 Wh/m <sup>3</sup> K

Variables	
Floor area (f)	12.56 m <sup>2</sup>
Internal volume (w)	32.656 m <sup>3</sup>
Ventilation Heat loss (v)	94.38 W
Internal heat loss (e)	0.00 W/°C
External heat loss (d)	13.89 W/°C
Transmission Heat Loss (t)	236.19 W

Heating capacity required in main living room determined by Schedule 2 of the Residential Tenancies (Healthy Homes) Regulations 2019 & 2022 Amendment

Amended May 2022 - ensure it is a modern dwelling or relevant apartment

**modern dwelling**, in relation to premises or a tenancy building, means premises or a tenancy building that first received building consent—

- (a) on or after the following date for its zone:
  - (i) 30 September 2008, for zone 1:
  - (ii) 30 June 2008, for zone 2:
  - (iii) 31 October 2007, for zone 3; or
- (b) before the applicable date in paragraph (a) if—
  - (i) insulation and glazing have been installed throughout the thermal envelope of the premises or tenancy building; and
  - (ii) the insulation and glazing meets or exceeds NZS 4218:2009 for that zone

**relevant apartment** means premises in a tenancy building that consists of 3 storeys or more and contains 6 or more commercial or residential premises

22degrees

Building Services Engineering

7422  
WHITAKER PLACE  
GRAFTON  
HH CALCS

DATE	CALC	APPROVED
28.08.23	EMC	JOG