



## RFM Constructions Pty Ltd and Sally Gardner Design & Draft Proposed Residential Development

To be built at 4B Cambridge Avenue, Narrabeena NSW 2099

Issue	File Ref	Description	Author	Date
A	20-0518	NatHERS Thermal Comfort Assessment	DG	21/06/20

This report has been prepared by Efficient Living Pty Ltd on behalf of our client RFM Constructions. Efficient Living prepares all reports in accordance with the BASIX Thermal Comfort Protocol and is backed by professional indemnity insurance. This report takes into account our Client's instructions and preferred building inclusions.

If there is a change to this specification during design or construction phases, please contact Efficient Living and quote the above file reference for advice, and to obtain an updated Certificate if required.



Assessor: Dani Grumont  
Email: dani@efficientliving.com.au

License Holder: Tracey Cools  
Accreditation Number: HERA10033

---

#### BASIX Details:

NatHERS Certificate Number: 00004943734

BASIX adjusted conditioned area: 222m<sup>2</sup>

BASIX adjusted un-conditioned area: 24m<sup>2</sup>

Area adjusted heating load: 39.8MJ/ m<sup>2</sup>/pa

Area adjusted cooling load: 24.5MJ/ m<sup>2</sup>/pa

---

#### Specification

Heating and cooling loads for the development have been determined using BERS Pro Plus 4.4 thermal comfort simulation software, and assessed under the thermal simulation method of the BASIX Protocol.

The following specification was used to achieve the thermal performance values. Modelling proxies are used at times and if the buildings element details vary the thermal performance specification below shall take precedence.

If there is a change to this specification during design or construction phases, please contact Efficient Living for advice and if required an updated Certificate will be issued.

---

#### Floors

Open suspended concrete slab with R3.0 insulation (insulation only value), excluding Garage

Open and enclosed suspended timber floor with R3.0 insulation (insulation only value)

Garage: Suspended concrete slab, no insulation required

Timber between levels, no insulation required

---

#### External Walls

Lightweight cladding on framed walls with R2.5 insulation (insulation only value)

Note: No insulation is required to external Garage walls

#### External Colour:

Medium ( $0.475 < SA < 0.7$ )

---

#### Walls within dwellings

Plasterboard on studs, no insulation required

Plasterboard on studs with R2.0 insulation between Garage and habitable areas, and internal Laundry walls shared with Pantry and Kitchen.

---

#### Glazing Doors/Windows

Aluminium framed performance glazing throughout:

**Group A** – awning + bifold + casement windows + hinged glazed doors

U-value: 4.80 (equal to or lower than) SHGC: 0.34 ( $\pm 10\%$ )

**Group B** – sliding doors/windows + fixed glazing + louvred windows

U-value: 4.80 (equal to or lower than) SHGC: 0.34 ( $\pm 10\%$ )

Given values are AFRC total window system values (glass and frame)

---

---

#### Roof and Ceilings

Metal roof with foil/sarking

Plasterboard ceiling with R3.5 insulation (insulation only value) where roof above

No insulation to Garage ceiling/roof

#### External Colour

Light (SA < 0.75)

---

#### Ceiling Penetrations

Sealed LED downlights, one every 2.5m<sup>2</sup>

---

#### Floor coverings

Carpet to bedrooms, tiles elsewhere

---

#### External Shading

Shading as per stamped drawings

---

#### Ventilation

All external doors have weather seals, all exhaust fans and chimneys have dampers, and down lights proposed will have capped fittings

---