



Duffy Regan Design Proposed Granny Flat

To be built at 9 Bate Avenue, Allambie Heights, NSW 2100

Issue	File Ref	Description	Author	Date
A	20-1127	NatHERS Thermal Comfort and BASIX Assessment	JJ	16/11/2020
B	20-1127	NatHERS Thermal Comfort and BASIX Assessment	JJ	16/11/2020

This report has been prepared by Efficient Living Pty Ltd on behalf of our client Duffy Regan Design. 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: Justin Jiang
Email: justin@efficientliving.com.au

License Holder: Tracey Cools
Accreditation Number: HERA10033

BASIX Details:

NatHERS Certificate Number: 0005392568

BASIX adjusted conditioned area: 54.0m²

BASIX adjusted un-conditioned area: 4.0m²

Area adjusted heating load: 30.2 MJ/ m²/pa

Area adjusted cooling load: 18.1 MJ/ m²/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

Concrete slab on ground ,no insulation required

External Walls

Lightweight cladding on framed walls with R2.0 insulation (insulation only value)

External Colour:

Light (SA < 0.475)

Walls within dwellings

Plasterboard on studs, no insulation required

Glazing Doors/Windows

All Glazed windows and doors:

U-value: 4.30 (equal to or lower than) SHGC: 0.42 (±10%)

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

Skylights

None

Roof and Ceilings

Metal roof with foil backed blanket (R_u1.3 and R_d1.3) (ie. Bradfords Anticon 60)

Plasterboard ceiling with R3.0 insulation (insulation only value) where roof above or balcony above

External Colour

Light (SA < 0.475)

Ceiling Penetrations

Sealed LED downlights not to exceed NatHERS certificate

Floor coverings

Tile to bathroom and laundry, polished concrete 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
