



Lawson & Lovell Building Services Proposed Residential Development

To be built at 14 Narrabeen Park Parade, Warriewood

Issue	File Ref	Description	Author	Date
A	20-1115	NatHERS Thermal Comfort and BASIX Assessment	PV	25/11/2020

This report has been prepared by Efficient Living Pty Ltd on behalf of our client Lawson & Lovell Building Services. 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: Pam Villares
Email: pam@efficientliving.com.au

License Holder: Tracey Cools
Accreditation Number: HERA10033

BASIX Details:

NatHERS Certificate Number: 0005426135

BASIX adjusted conditioned area: 45.6 m²

BASIX adjusted un-conditioned area: 5.3m²

Area adjusted heating load: 37.0 MJ/ m²/pa

Area adjusted cooling load: 22.9 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 with R1.0 bulk insulation (insulation only value)

External Walls

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

External Colour:

Medium ($0.475 < SA < 0.7$)

Walls within dwellings

Plasterboard on studs with R1.0 bulk insulation (insulation only value) required between bathroom and conditioned space

Glazing Doors/Windows

Glazed windows and doors:

Group B – sliding doors/windows + fixed glazing + louvre windows

U-value: 4.80 (equal to or lower than) SHGC: 0.34 (±5%)

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_a1.3) (ie. Bradfords Anticon 60)



Plasterboard ceiling with R4.0 insulation (insulation only value) where roof above.
Medium ($0.475 < SA < 0.7$)

Ceiling Penetrations

Sealed LED downlights, one every 2.5m^2 . Once lighting plan has been developed NatHERS certificate can be updated to improve specification.

Floor coverings

Tiles to wet areas and timber elsewhere

External Shading

Covered Terrace. Eaves 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
