



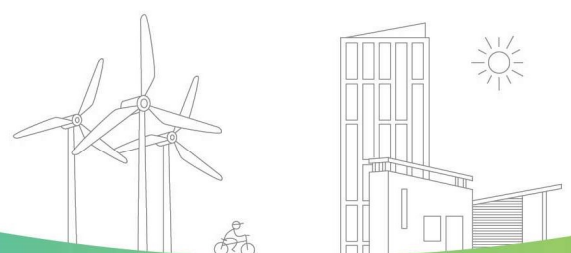
Richard Conway Proposed Residential Development

To be built at 44 Nareen Parade, North Narrabeen

Issue	File Ref	Description	Author	Date
A	21-1368	NatHERS Thermal Comfort and BASIX Assessment	AA	29/01/2021

This report has been prepared by Efficient Living Pty Ltd on behalf of our client Richard Conway. 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.



29 January 2021

Richard Conway
44 Nareen Parade, North Narrabeen

Assessor:	Alison Adendorff	License Holder:	Tracey Cools
Email:	alison@efficientliving.com.au	Accreditation Number:	HERA10033

BASIX Details:

NatHERS Certificate Number: 0005632211

BASIX adjusted conditioned area: 50m²

BASIX adjusted un-conditioned area: 6.2m²

Area adjusted heating load: 32 MJ/ m²/pa

Area adjusted cooling load: 25 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

Suspended timber with R2.0 insulation (insulation only value) to open and enclosed suspended areas

External Walls

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

External Colour:

Medium ($0.475 < SA < 0.7$)

Walls within dwellings

Plasterboard on studs, no insulation required

Glazing Doors/Windows

Glazed windows and doors:

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

U-value: 2.9 (equal to or lower than) SHGC: 0.51 (±5%)

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

U-value: 2.9 (equal to or lower than) SHGC: 0.51 (±5%)

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

Skylights

U-value: 2.6 and SHGC: 0.24



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

Ceiling insulation require to verandah or porch where connected to main roof cavity or barrier provided

External Colour

Dark ($SA > 0.7$)

Ceiling Penetrations

Sealed LED downlights not to exceed NatHERS certificate

Floor coverings

Carpet to bedrooms, tiles to wet areas, timber 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
