



ENATAP ENERGY RATINGS

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Accreditation # VIC/BDAV/13/1536

ASSESSMENT No: 3908-3

Date Issued: 22/01/2019

Drawing/Job No: QD1268

Project Address:

Res 1-3, 638 Burbridge Rd, West Beach SA 5024

Conditions for Compliance.

---The "**NatHERS Universal Certificate**" must be read in full in conjunction with the "**Summary Report**" ---

The Summary Report

ROOF INSULATION

- NIL insulation.

EXTERNAL CEILING INSULATION

- R5.0 Batts.

EXTERNAL WALL INSULATION

- All External Walls:- R2.5 Batts.

INTERNAL WALL INSULATION

- Internal Walls:- R2.0 Batts to Res 1. (Res 2-3 are optional)
- Party wall to comply with Sound Proof and Fire Wall requirements of the BCA/NCC.

FLOOR CONSTRUCTION

- Slab on ground:- Nil Insulation.
- Sub-Floor:- R2.0 Insulation.

EXTERNAL GLAZING

- S/G Clear Group A & B Custom---Refer to the Universal Certificate for glazing specifications---
- Low-E to Res 1 Dine/Lounge sliding door---Refer to the Universal Certificate for glazing specifications---

INTERNAL CEILING FANS

- N/A

ROOFLIGHTS

- N/A

Miscellaneous Details:

- Exhaust Fans must be sealed. (as per NCC 3.12.3.4)
- Draught and weather seal to all external doors and windows.
- Where recessed LED downlights are incorporated, IC Rated downlights or downlights with insulated covers must be fitted. Insulation penetration N/a therefore insulation adjustment not required.
- Medium colour roof.
- Please adhere to relevant parts of 3.12.0 noted below.
- This assessment is final only when accepted by your Surveyor/Certifier and therefore could be subject to changes.

NCC/BCA Class 1 and 10a Buildings Volume 2 Part 3.12

Application of Part 3.12.0

(a) **P2.6.1** for the thermal performance of the building is satisfied by complying with:

- (i) (A) 3.12.0.1, for reducing the heating or cooling loads,
- (B) 3.12.1.1, for building fabric thermal insulation,
- (C) 3.12.1.2(c) and 3.12.1.4(b) for thermal breaks,
- (D) 3.12.1.2(e) for compensating for a loss of ceiling insulation,
- (E) 3.12.1.5(c) and 3.12.1.5(d) for floor edge insulation,
- (F) 3.12.3 for building sealing.

(b) **P2.6.2** for reducing greenhouse gas emissions is satisfied by complying with:

3.12.5.0 A heated water supply system must be designed and installed in accordance with Part B2 of NCC Vol Three-Plumbing Code of Australia

3.12.5.1 Thermal insulation for central heating water piping and heating/cooling ductwork must (a) be protected against The effects of weather and sunlight, (b) be able to withstand the temperatures within the piping or ductwork, (c) Use thermal insulation material in accordance with AS/NZS 4859.1

3.12.5.2 Central heating water piping that is not within a conditioned space, must be thermally insulated to achieve the minimum material R-Value in accordance with Table 3.12.5.1

3.12.5.3 Heating and cooling ductwork and fittings must achieve the material R-Value in Table 3.12.5.2 and be sealed against air loss as per 3.12.5.3 (a) (ii) (A) or (B). Duct insulation must abut adjoining duct insulation to form a continuous barrier, be installed so that it maintains its position and thickness other than at flanges and supports. And where located outside the building under suspended floor in an attached Class 10a building or in a roof space, refer to 3.12.5.3 (b) (iii) (A) and (B). The requirements of heating and cooling ductwork and fittings achieving the material R-Value and air loss sealing, is not required when located within the insulated building envelope including a service riser within the conditioned space, internal floors between storeys and the like.

3.12.5.4 An electric resistance space heating system that serves more than one room must have separate isolating switches for each room, a separate temperature controller and time switch for group of rooms with common heating needs and, power loads of not more than 110 W/m² for living areas and 150 W/m² for bathrooms.

3.12.5.5 (a) The lamp power density or illumination power density of artificial lighting, excluding heaters that emit light, must not exceed the allowance of-

- (i) 5 W/m² in a Class 1 building; and
- (ii) 4 W/m² on a verandah, balcony or the like attached to a Class 1 building; and
- (iii) 3 W/m² in a Class 10a building associated with a Class 1 building.

Please also note remaining parts of 3.12.5.5

3.12.5.6 A water heater in a heated water supply system must be designed and installed in accordance with Part B2 of NCC Vol Three-Plumbing Code of Australia.

3.12.5.7 (a) Heating for a swimming pool must be by (1) a solar heater not boosted by electric resistant heating, or (2) a heater using reclaimed energy, or (3) a gas heater, or (4) a heat pump, or a combination of 1 to 4. (b) Where some or all of the heating required by (a) is by a gas heater or a heat pump, the swimming pool must have:- a cover unless located in a conditioned space, and a time switch to control the operation of the heater. (c) A time switch must be provided to control the operation of a circulation pump for a swimming pool. (d) For the purposes of 3.12.5.7, a swimming pool does not include a spa pool.

3.12.5.8 (a) Heating for a spa pool that shares a water recirculation system with a swimming pool must be by:- (1) a solar heater, or (2) a heater using reclaimed energy, or (3) a gas heater, or (4) a heat pump, or a combination of 1 to 4. (b) Where some or all of the heating required by (a) is by a gas heater or a heat pump, the spa pool must have:- a cover, and a push button and a time switch to control the operation of the heater. (c) A time switch must be provided to control the operation of a circulation pump for a spa pool having a capacity of 680L or more.