

NEV Member Building Meetings - Help with your home design

Goal: As part of the Stage 2 full-cycle approach for building your home, these regular meetings have begun so that members can share their designs and lessons learned. The loose format is a member's talk about their home; an expert speaking about some topic; and a Q&A workshop for members to bring their ideas forward or questions about their house design.

Page Structure

We will put the presentations and videos here for each meeting within the week after, and also try to find other talks and material about members' home and collate it here for all to benefit.

Circles and teams

- **Sustainable Design Appraisers (SDAs)** – help with your design and scorecard
- **Building Review Panel (BRP)** – if your design meets the standard, BRP stamps your drawings before they go the State planning portal
- **Member building meetings** - monthly forum for members to design home, learn, include experts and arrange speakers
 1. **Member Building Group** – members, SDAs, and experts (Architects, engineers, builders, assessors, designers) to help members with designs
 2. Members and non-members are welcome



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Building Assets for Stage 2 Members

Home Designs

1 and 2 bedroom designs - see the tab AffordableHomes in the spreadsheet at TBD

3 bedroom homes - see the tab OtherHomeDesigns in the spreadsheet at TBD

Education - a WIP document

TBD

Stage 2 Member ideas, Products, Services & Suppliers

Peter Higgs [page](#)

Regular Bi-Monthly Meetings on NEV Building Design - 4th Sat

One of the popular changes to the building standards was that the current level of support in helping members should be increased, with **regular meetings**, and communication in various media including in SLACK, in the NELN newsletter and in Despatch emails.

Members are keen to share their designs and are rewarded in our scoresheet for doing this, so these will present opportunities for this, as well as benefits to newer members designing their homes.

Member Building Workshop

Contents (slides, videos)

1. a) Heat-proof house and b) Variety of homes in Stage 1
2. Lowering Building Costs at NEV

- 3. Designing Sustainable Healthy Homes
- 4. Designing a Passive House
- 5. Could a Worker Co-op assist with Stage 2
- 6. How to pass the Building Standards with the scoresheet - Gillian's challenging Dual Occupancy homes

Members Building Workshop 6

Sat 24/6/23 - 12:50pm for 1-3:30pm - Mbr Building Workshop

6. How to pass the Building Standards with the scoresheet - Gillian's challenging Dual Occupancy homes

John Shiel introduced the relevant Dual Occupancy concepts of the Building Standards and Scoresheet, and took some questions.

Then Gillian Wellstead spoke of the requirements she gave to Graham Hunt of DHW, before Graham explained the design which is around 70% complete after approaching council to avoid costs and give more space to the garden,. He then explained how the Scoresheet points were gained to get a draft score of a little over 70, with some decisions to be decided with Gillian.

The Q&A panel was made up of John, Gillian, Graham and Emma Davis, a newly trained SDA.

Presentation

The **powerpoint** slides are [here](#).

Videos

The video that can be streamed to any device, including good questions and answers is [here](#)

Part 1 - 0:00 to 36:00 - **Dual Occupancy Concepts** by John Shiel; with **Q&A** from 36:00 to 59:30

Part 2 - 59:30 to 1:51:50 - Gillian and Graham Hunt **Dual Occupancy Design** and **Passing the Building Standards with Scoresheet points**, including concessions from council lowering the cost, and enlarging the garden area; with **Q&A** from 1:51:50 to 2:16:30

Q&A

The interesting Q&A text is [here](#).

Onsite Detention

The onsite detention tank requirements and design were requested, and are here.

[Requirements & design table for your roof](#)

[Combined water tank and on-site detention tank design](#) (could this form the basis of a bulk order?)

Members Building Workshop 5

Sat 22/10/22 - Mbr Building Workshop

5. Could a Worker Co-op assist with Stage 2

Several workers discussed how this might work, and the pros and cons (e.g. overcoming worker and material shortages, sharing resources, distributing profits, training members, having employment opportunities for younger members. While there might not be a builder licence initially, it could assist Owner Builders).

There will be more discussions in 2023

[Video](#) - Spanish Mondragon example - 3 min video clip - streams to any device

Members Building Workshop 4

Sat 27/8/22 - Mbr Building Workshop

4. Designing a Passive House

Architect and **Passive House** expert Andy Marlow presented how the proposed Stage 2 and new BASIX design approach of **Passive House** can be used instead of using NatHERS. Andy presented the advantages of living in a [Passive House](#) home, and replayed an interview he had made with Tony and Theresa Farrell's home where they walked thru the home showing its design features and ventilation system.

There was an interesting discussion.

Presentations



2022_08_27_Mbr...v1.1_after.pdf

Andy's Presentation



2022-08-27 Mar...ARARA_sml2.pdf

Videos

Videos can be streamed to any device:

- Pt 1 Andy <https://vimeo.com/743801762/4253a37d3e>
- Pt 2 Andy <https://vimeo.com/743801861/886f977cdb>
- Andy interview with Tony & Teresa and house walk-thru <https://vimeo.com/743801955/45dce904a0>

Other Resources

CSIRO seminar video on Sealing and Ventilation - <https://ahd.csiro.au/seal-it-tight-and-ventilate-right/>

Members Building Workshop 3

Sat 25/6/22 - Mbr Building Workshop

3. Designing Sustainable Healthy Homes

Minimising the risk of moisture issues etc, balancing ventilation with how tightly sealed a home is, with the local climatic conditions (e.g. cold nights).

We had great talks from experts **Dr Mark Dewsbury** and Member Building Biologist, **Mikala Dind**. We also reviewed the ventilation systems of members Geoff Cameron and Tony and Theresa Farrell, but unfortunately they were not available to attend.

The main slides are here with **details of the member ventilation systems**, including calculations at the end that show **how to design your own ventilation system** (we ran out of time to cover this in the workshop).

Presentations



2022_06_25_Mbr...Homes v0.3.pdf

[Mark's slides are here](#)



2022-06-25 Dew...lthy homes.pdf

[Mikala's slides are here](#)



2022 Dind-Healt...NEV)_slides.pdf

Videos

Here are the Vimeo LINKS ([in blue](#)) for the videos - they can be **streamed to any device**, or you can listen to the video file on your phone, like a podcast:

[Intro and Agenda](#) - John Shiel - 2 mins - slides are above

[Designing Healthy Homes](#) - Dr Mark Dewsbury - 30 mins - slides are above

[Healthy Homes](#) - Mikala Dind - 20 mins - slides are above

Member homes - [Geoff Cameron Home Walthru and Tony and Theresa Farrell System](#)

Members Building Workshop 2

Sat 23/4/22 - Mbr Building Workshop

2. Lowering Building Costs at NEV

The case study was by **George Gilmour** on [Overcoming Owner Builder Cost Challenges](#)

Architecture expert and Building Standards Consultant **Graham Hunt** will also speak about lowering costs, with respect to design, builders and materials.

Attendees discussed their status and designs, and there was good feedback about the day.

Presentations

[George's Presentation](#) is:



220423-Gilmour...Challenges.pdf

Graham's Presentation is:



2022_04_23 Hun...esentation.pdf

Videos

Here are the 2 Vimeo LINKS for the 2 videos - they can be streamed to any device, or you can listen to the video file on your phone:

[George Gilmour - Overcoming Owner Builder Cost Challenges - 50 mins](#)

[Graham Hunt - Building Affordably - 50 mins](#)

Cost Estimating Spreadsheet - Eilean Watson with input from experts

[2022 Watson-Home and Land Cost Estimation Spreadsheet](#)

Members Building Workshop 1

1. a) Heat-proof house and b) Variety of homes in Stage 1

Sat 26/2/22 - 12:50pm for 1-3:30pm via Zoom

Dan & Deb Mohr's home design - 74% reduction in NatHERS cooling load

How to design a sustainable heatwave proof house (80% reduction in NatHERS cooling energy). Includes a video clip of Graham Hunt explaining the main features to keep the house cool.

Plus overview of houses in Stage 1 (materials, design features) - from John Shiel

Plus breakout rooms and Q&A.

Videos

[Introduction](#) - John Shiel - 4 mins, 30MB download

[Dan Mohr's video](#) - 45 mins, 350MB download

Graham Hunt's [short video clip](#) on technical features - 30 seconds, 11MB

John Shiel's variety of houses and materials in Stage 1 [video](#) 15 mins, 130MB

Powerpoints

Variety of houses and materials in Stage 1- John Shiel - sustainable houses



2022_02_26_Mbr...v0.9_After.pdf

Graham Hunt's pptx on technical features



Hunt - Technic...proof Home.pdf

Dan Mohr's presentation (TBD)