

HOUSES

Australian Residential Architecture and Design

2022
HOUSES
AWARDS
*Celebrating Australia's
best houses, gardens
and apartments*

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**HOUSES
AWARDS**
WINNER
2022
SUSTAINABILITY

**THE HÜTT 01
PASSIVHAUS
BY MELBOURNE
DESIGN STUDIOS**



Award for Sustainability
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This house sets a new standard for practical and measurable sustainability, delivering an oasis-like family home on a challenging site that aspires to both net-zero energy and carbon neutrality.

With a rail corridor immediately adjacent to the site and a noisy road nearby, the building strategy was to counter the busy locale with high-performance fabric and systems. The finished project represents the opportunities of sustainable development over the sacrificial mindset that often ensues.

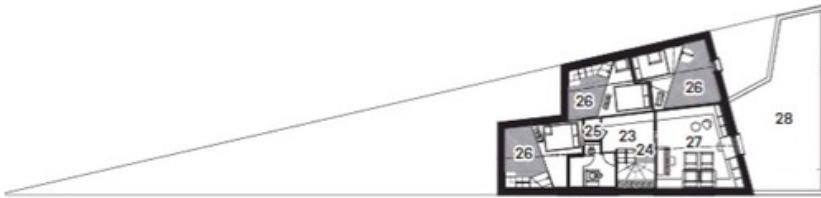
The home delivers an aspirational objective of ultra-low environmental impact, including consideration of its inhabitants' comfort and wellbeing, and offers a resilient environment ready for the trials of a harsh and changing climate. The CLT fabric and extensive natural finishes both reduce embodied

energy and enhance biophilic outcomes, and the obvious deliberation is to be commended. The use of simple but high-performance technologies and dematerialization further enhance the credentials.

With a very small internal footprint of just 78 square metres, the home exemplifies the sustainable ideal of doing more with less, and the site selection and response represent gentle urban densification for deliberate small-footprint living. The house generates a significant portion of its own energy on-site, which is especially commendable given the vertical scale. The considered garden complements the house with natural beauty and multifunctional approach, including the accessible green roof.

Hütt 01 Passivhaus is a place where its occupants can thrive, and it exemplifies a new standard with no sacrifice of architectural outcome.

From the Houses Awards jury.



Mezzanine floor 1:400



First floor 1:400



Ground floor 1:400



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|--------------------|----------------------|
| 1 Garage | 15 Tree house |
| 2 Rainwater garden | 16 Rainwater tanks |
| 3 Entry | 17 Aquaponics |
| 4 Study | 18 Hall |
| 5 Sunken living | 19 Main bedroom |
| 6 Laundry | 20 Bedroom |
| 7 Dining | 21 Net bridge |
| 8 Kitchen | 22 Roof garden |
| 9 Pantry | 23 Landing |
| 10 Terrace | 24 Net seat |
| 11 Barbecue | 25 Reading nook |
| 12 Fireplace | 26 Net over void |
| 13 Pond | 27 Rumpus |
| 14 Deck | 28 Roof garden below |

The Hütt 01 Passivehaus is built on the land of the Wurundjeri Woi Wurrung people.
Location Melbourne, Vic

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Project team Marc Bernstein-Hussmann, Felicity Bernstein **Builder** Hütt in collaboration with G-Lux Builders and Felicity Bernstein **Structural engineer** GCE **Landscape consultant** Eckersley **Garden Architecture** **Water-sensitive urban design** Biofilta **Life cycle assessment** Clare Parry

Photographer
Marnie Hawson