



WELL CONNECTED HOME

INTERACTIVE BEACHSIDE HOME BLENDS TECHNOLOGY WITH DESIGN
 THERMALHEART™ AND ELEVATE™ SYSTEMS MAXIMISE VIEWS WHILST RETAINING EFFICIENCY



This futuristic home is located in Sydney's Eastern Suburbs. Situated right near the water, the clients on this project longed for a home that is contemporary, energy efficient and high tech.

Building a home from scratch had been a dream for the clients. Prior to the renovation, the home was a run-down weatherboard house with an overgrown garden. They lived in the house for two years whilst planning the build of their new four bedroom residence, designed by Simon Anderson of Anderson Architecture.

The couple provided Simon with a brief they were quite passionate about. The couple were eager to implement green aspects into their home, such as passive solar design. They also really wanted the house to have a very natural connection between the inside and out, so their brief to Simon was to incorporate double height living and natural ventilation,

natural heat from the movement of the sun, thermal mass and double glazing.

The back of the house faces west, opening onto the extended deck and garden area, a design challenge that called for careful management of summer heat gain and glare.

Many carefully considered technological features were implemented by the architects to ensure a sustainable, eco-friendly home was created. One of the many clever ideas included a motorised sliding roof that acts as a deep eave over the back of the home, operated by remote control. The panels are powered by electricity from two solar batteries.

To ensure a maximum view was taken into the home, the build also required high quality windows and doors that allowed for thermal efficiency whilst spanning across the entire home.



ThermalHEART™ Series 804 Commercial Framing:

- Incorporating ThermalHEART™ technology, Series 804 delivers excellent thermal performance and is ideal for commercial and high-end residential applications where minimising heat or cold transfer is desired.
- To enable excellent thermal performance to be achieved, a “thermal break” is incorporated which separates the inside and outside elements of the frame providing an insulator to minimise the transfer of heat or cold between the elements.
- Series 804 thermally broken CentreGLAZE™ framing has been designed specifically to accept 24mm Insulating Glass Units (IGUs).
- Reinforced tall glazing bead at sill tolerates high negative wind loads.
- Glazing wedges are recessed into the framing for a clean aesthetic appearance.

The architects and clients decided to use the ThermalHEART™ and Elevate™ Aluminium Systems range of aluminium windows and doors due to their strong bold sashes and high thermal efficiency.

Local manufacturers AVS Windows & Doors were recommended by the architects due to their reputation for high quality workmanship.

The ThermalHEART™ range of thermally efficient frames were used throughout the home and have dramatically reduced the family’s energy consumption.

AVS Windows & Doors worked closely with both the clients and architects to ensure the brief was met. AVS assisted in troubleshooting various design and

efficiency implications the project was facing in regards to glazing.

Upon completion of the home, the clients were pleased with the look, feel and performance of the ThermalHEART™ range of aluminium windows and doors. The couple also congratulated the team at AVS on a fantastic job, glad that the aluminium windows and doors met their high expectations.

Whilst the clients had a strict brief and were eager to use a select range of materials throughout the home that they had specifically chosen, the completed project, is very close to the clients’ original concepts and hasn’t been watered down, but has enhanced the clients’ involvement.



AVS Windows & Doors are licensed manufacturers of Vantage and Elevate™ aluminium windows and doors. Located in Tuggerah on the NSW Central Coast, AVS are focused on effectively and efficiently servicing the Newcastle, Central Coast and Sydney regions. Liz and Darren have over fifty years’ experience within the window manufacturing/building industry and are able to assist you with selecting the right product for your project.



NEED MORE INFORMATION?
For the latest technical information regarding the Series 804 Framing or other ThermalHEART™ products, visit our website: www.thermalheart.com.au

2D & 3D CAD FILES AVAILABLE
Download the ThermalHEART™ Series 804 Framing CAD & Revit 3D files to use in your projects from the SpecifyAWS website: www.specifyaws.com.au



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