AWS | PROJECT FEATURE

RUMNEY REST

Photography – Ian Wallace

DESIGNED ON PASSIVE DESIGN PRINCIPLES TO ENSURE EFFICIENCY

GLASS SUPPLIES UTILISED THERMALHEART™ SYSTEMS TO ENSURE ENERGY EFFICIENCY THROUGHOUT

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Situated 320 metres above sea level, this five hectare lot was to be shared in harmony with the wedge tailed eagle's nesting territory therefore minimal disturbance to the lot was a priority for both clients and designer.

Fundamentally designed on passive solar principles, the pavilion layout invigorates living whilst exploiting the vistas resulting in a remarkable, majestic rest point for clients.

Award winning building designer Mike Cleaver of Clever Design was responsible for this stunning residential project. Taking great pains to ensure all aspects of the clients' brief were met, Mike worked to create external living spaces that were well connected to the interior by large spans of glazing without compromising on the energy efficiency credentials of the dwelling.

The site utilises the natural land knoll in conjunction with the curvaceous roof form to deflect the prevailing south-westerly winds and provide a sheltered microclimate for the immediate external zoned living areas.

Due to the positioning of the home, Mike specified double glazing to ensure the thermal efficiency of the project. As the clients required large spans of glazing to open up their living spaces, Mike required a high performance framing solution to ensure all openings were easily operable despite the weight of double glazing in large stacking doors.

Installed into the home were the AWS residential range of thermally broken large sliding doors as they operate effortlessly. The superior quality of these systems ensured that the doors glide on heavy duty rollers and in turn allowed for ease of operation.

Alongside builder Cave Constructions, Mike worked closely with window and door supplier Glass Supplies to ensure the window and door specification for the project achieved all the clients' needs.

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ThermalHEART™ Series 731 Sliding Door:

- Incorporates ThermalHEART™ technology giving a true wide thermal break between the outside and inside elements.
- A major advantage with ThermalHEART™ in cold climates is the reduction of internal condensation.
- Low air infiltration suitable for air conditioned buildings.
- ThermalHEART™ will accept insulating glass units up to 32mm thick. The typical IGU thickness is 24mm.
- We offer ThermalHEART™ in a range of stocked colours including dual colour.
- The door panels run on heavy duty double bogey wheels as a standard inclusion.
- For the ultimate finish the perimeter frame has snap-in flat fillers to close off all unwanted recesses. These fillers are isolated to prevent thermal transmission from inside to outside.

Glass Supplies recommended the efficient ThermalHEART™ range of aluminium systems throughout the home due to the extreme climate. Whilst the home was double glazed, the transfer of heat and cool also penetrates the frame itself.

The ThermalHEART™ range of aluminium frames is created using a polyamide strip between the aluminium exterior and interior elements, minimising the transfer of heat and cold through the aluminium frame.

Despite the large spans of glazing throughout the home, the use of double glazing coupled with the ThermalHEART™ aluminium frames allowed for the home to comply with energy requirements.

Designer Mike Clever also utilised several ThermalHEART™ Series 726 awning windows throughout the home. The strategic placement of these windows allows for cross ventilation opportunities throughout the home. This has ensured passive cooling in summer months and passive warmth in the winter months.

Glass Supplies coordinated the complex installation of large, heavy door and window panels on the steep site, achieving an impressive glazing solution for a very unique project.

The completed project is an amazing architecturally inspired home which utilises its landscape and surrounds to the fullest whilst maintaining thermal efficiency.

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Tasmanian owned and operated, Glass Supplies have been trading since 1960. During this time, Glass Supplies have become one of the State's leading aluminium window and door fabricators, providing quality and service second to none. The team at Glass Supplies are ready to assist you in selecting the ideal aluminium window and door systems for your project.

NEED MORE INFORMATION?

For the latest technical information regarding the Series 731 System or other ThermalHEART™ products, visit our website: www.thermalheart.com.au

2D & 3D CAD FILES AVAILABLE

Download the ThermalHEART™ Series 731 Framing CAD & Revit 3D files to use in your projects from the SpecifyAWS website: www.specifyaws.com.au

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