

A SEAMLESS DESIGN BETWEEN GLASS AND NATURE THAT PROVIDES AN UNFORGETTABLE AND UNIQUE AUSTRALIAN EXPERIENCE.

Overlooking the beautiful Sydney Harbour and located within the natural bushland of Taronga Zoo Sydney, the Wildlife Retreat at Taronga offers guests luxurious accommodation and fine dining facilities along with interactive wildlife experiences. Owned and operated by the Taronga Conservation Society Australia, AGWA members Bent & Curved Glass and SOLOS Glass were involved in the development of this incredible project.

Comprising of 62 luxury rooms and suites built across five environmentally sensitive lodges, the impressive \$45 million development is registered with the Green Building Council of Australia and is aiming for a Green Star Design and As Built five star-rating. The retreat is also well placed to be the first Green Star rated accommodation facility within a zoo environment.

'A key sustainable feature of the design was the reduction in heating and cooling requirements,' explains Matthew Morris, New South Wales State Sales Manager, SOLOS Glass. 'The choice of low-E glass played a significant role in achieving this. KlymetShield® helps to improve the overall solar control and thermal insulation performance of the window suites and reduces the reliance on artificial temperature control, making the space cooler in summer and warmer in winter.'

The eco-friendly design extends to the beautifully appointed suites. 'The expansive floor-to-ceiling windows used across the development are glazed with KlymetShield® low-E glass and boast stunning views of the Sydney Harbour and natural bushland, whilst coming face to face with the wildlife,' says Matthew.

Located in the central hub of the property is the 'Nest', a luxurious guest lounge surrounded by floor-to-ceiling windows, framing uninterrupted city and harbour views. A striking feature of the Nest is the

bespoke circular roof skylight structure.

A custom designed Insulated Glass Unit (IGU) from SOLOS Glass comprising of 10 mm EnviroTone® Grey Toughened, 12 mm argon gas filled IGU space and 13.52 mm EnviroClear® Toughened Laminate was used. 'The makeup of the IGU reduces the level of direct solar heat gain, unwanted solar glare and improves the overall comfort and energy efficiency of the space,' adds Matthew.

The retreat also showcases a broad range of glass types in curved applications manufactured by Bent & Curved Glass including the curved restaurant façade, dining room curved terrace balustrade, and curved fireplace glazing in the main lobby lounge, as well as the custom flat glazing of the balcony balustrades in guest accommodations.

'The curved glazing throughout the retreat enables the interiors to reach out into the external spaces and iconic Sydney Harbour views, making for seamless visual and physical connections within the native bushland setting,' explains Stephen Togher, Architectural Products Manager, Bent & Curved Glass. 'This heightens the interactive experience for guests who become immersed in the zoo's natural environment.'

The use of curved and low-E glass made a significant contribution to the success of the building design, enabling the brief from Taronga Conservation Society Australia to be met. Importantly, the glass had to achieve specific thermal and acoustic performance criteria, structural capabilities, and visual qualities. This was also replicated in the curved glass. 'Achieving the performance criteria with curved glass provided the architects with the freedom to follow and fulfil their organic design aesthetic, creating dynamic curved feature elements while also softening the corners and edges of the buildings sitting in the landscape,' says Stephen. »

RETREAT TO THE WILD



PROJECT
Wildlife Retreat at Taronga

LOCATION
Sydney, New South Wales

PROJECT TYPE
Commercial

ARCHITECT
Cox Architecture

BUILDER
Taylor Construction Group

PHOTOGRAPHY
Wildlife Retreat at Taronga
Mike Chorley Photography

The attention to detail in coordinating, understanding and working to the tolerances required for the glass elements, ensured the project was completed smoothly by Bent & Curved Glass and Solos Glass. 'The dimensional accuracy and optical quality of the curved glass that formed the fire screen to the feature fireplace in the main lobby lounge, and the high-quality edge finish on the fully frameless structural laminated terrace balustrades and guest room balconies, demonstrate the technical capabilities and skill achieved for this project,' explains Stephen. 'As an independent Australian family owned business we are proud to provide our locally manufactured curved and custom laminated glass products to the standard required for these iconic Australian projects.'

The retreat is one project where collaboration and team effort were integral in achieving an outstanding outcome throughout all areas of the project.

'The Wildlife Retreat at Taronga is a seamless design between building and nature, providing an unforgettable and unique Australian experience for guests to fully immerse themselves within the indigenous culture and wildlife, in an ecologically sustainable manner,' concludes Matthew. **BV**



SOLOS GLASS

Circular Roof IGU – Double Glazed:

- 10 mm EnviroTone® Grey toughened solar control toned glass, 12 mm argon gas filled space, 13.52 mm EnviroClear® toughened laminate.

Exterior Spandrel Panels – Single Glazed:

- 6 mm ColorSmart™ Iron Grey toughened.

Exterior Windows – Single Glazed:

- 10.38 mm KlymetShield® L Clear
- 12.38 mm KlymetShield® L Clear
- 13.52 mm KlymetShield® L Clear heat strengthened.

BENT & CURVED GLASS

Restaurant Façade – Curved Glass:

- 16 panels of 17.52 mm Clear low-E heat strengthened laminated curved glass featuring a 10 mm Clear outer layer and 6 mm Viridian EnergyTech™ low-E inner layer, with a 1.52 mm Clear PVB interlayer.
- Low-E coating is to the concave face of the glass surface.
- Colour back paint to 440 mm strip at top edge (Black Grey RAL 7021).

Dining Function Room Terrace Balustrade – Curved Glass:

- 16 panels of 21.52 mm Clear toughened heatsoak treated custom laminated curved glass featuring two layers of 10 mm Clear toughened, with a 1.52 mm Clear PVB interlayer.

Main Lobby Lounge Fireplace – Curved Glass:

- Four panels of 6 mm Clear toughened curved glass at minimal radius.

Guest Accommodation Balcony Balustrade – Flat Glass:

- 64 panels of 25.52 mm Clear toughened structural laminated flat glass featuring two layers of 12 mm Clear toughened with 1.52 mm Dupont SGP interlayer.



SOLOS GLASS

solosglass.com.au
possibilities@solosglass.com.au
1800 4SOLOS



BENT & CURVED GLASS

bentglass.com.au
info@bentglass.com.au
1800 677 052