

NATIONAL ICE SPORTS CENTRE

MAIN CONSTRUCTION COMPANY : Hansen Yuncken
COMMERCIAL/RETAIL SIZE : 9 500m²
CLIENT : ING Real Estate Developments
PROJECT END VALUE : \$58 Million
COMPLETION : December 2009
ARCHITECTS : Cox Architects
STRUCTURAL ENGINEER : Arup



A VERY COOL COMPANY

Hansen Yuncken P/L has been contracted by ING Real Estate Development to design and deliver Australia's first Dual Ice Rink – NISC IceHouse (National Ice Sports Centre). The NISC, adjacent to Moonee Ponds Creek and harbour town shops at Docklands, Melbourne, forms part of ING Australia's development of the Waterfront City precinct. The rinks will provide a facility for the public and sports users. The facility will also include commercial and administration areas as well as limited landscaping. The Olympic Winter Institute of Australia will operate from the Centre. The OWI, an initiative of the Australian Olympic Committee (AOC), develops elite athletes in winter sports, including ice sports, to Olympic and international levels.

NISC will provide facilities for ticketing, skate hire, purchase, maintenance and storage of ice sports equipment and facilities for patrons, along with café dining, and a licensed public bar, with views. A temporary location for live and recorded television camera filming and commentators, administrative offices and staff facilities for the centre, and a specialist ice sports medical suite are featured.

A temporary location for live and recorded television camera filming and commentators, administrative offices and staff facilities for the centre, and a specialist ice sports medical suite are part of the design.

The NISC is to be a multipurpose venue providing public recreational ice skating, ice sports competitions, training & coaching and dry-land training all year round. It will provide for the ice sports of Ice Hockey, Short Track, Speed Skating, Figure Skating, Ice Dancing and Curling.

All of the above sports may be played on either of two ice rinks. The NISC IceHouse will provide for official's requirements, fixed equipment, and storage space for temporary equipment.

The NISC IceHouse has capacity for two or more whole rink sporting activities to be played simultaneously at the centre, or for a sporting activity to take place on one ice rink while public recreational skating takes place on the other. The support facilities will include dressing rooms and public toilets.

The facility will allow that Rink 2 may operate at times as a function centre for the summer months (November to March) suitable for seated dinner functions of up to 1,800 patrons, or cocktail standing functions of up to 2,300.

The NISC IceHouse is designed to accommodate up to 400 people on each rink in public skate mode with Rink 2 being geared toward 'entertainment' with provision of large video screen, light show, audio system for the playing of music etc.

NISC will deliver icesports facilities and services of a high quality contributing to an integrated precinct of higher amenity and architectural quality. Hansen Yuncken have worked closely with the agreed Victorian green design criteria which have been met and passed. For instance, rain water will be collected from roofs and 65,000 litres of stormwater stored in tanks and used for ice making and all toilet flushing water

The landmark façade design is separated into horizontal stratum

representing a translucent 'ice' layer over a heavier 'moraine' base massing. The two elements are separated by a thin blue 'crevasse' continuing around the exterior. The rounded corners of the external form soften view lines around the building. The double-height glazed entrance to the building draws focus towards the main opening, sheltered by a cantilevering canopy. Careful positioning of internal elements allows for a direct view path towards the Moonee Ponds Creek from the main entry.

The NISC will provide an exciting and memorable experience to visitors, ensuring return visits and an excellent reputation. Hansen Yuncken is proud to be the head contractor for this very remarkable construct.

The project comprises of 1 Independent structure / building including:

Public Use / Commercial / Food & Beverage
Site Area – 8000m²
2x Olympic / IIHF sized Ice Rinks
Fixed seating for up to 1000 to Rink 1
Rain water harvesting / re-use
Service road / Loading Dock
Café

Other facilities provided within in the building include:
Facilities for ticketing of public recreational skating, ice sports sessions and spectator events. Facilities for the hire purchase, maintenance and storage of ice sports equipment. Sufficient area and facilities for patrons to put-on skates, store belongings. Shower and change rooms. Function spaces will be provided adjacent to each rink to allow for teaching

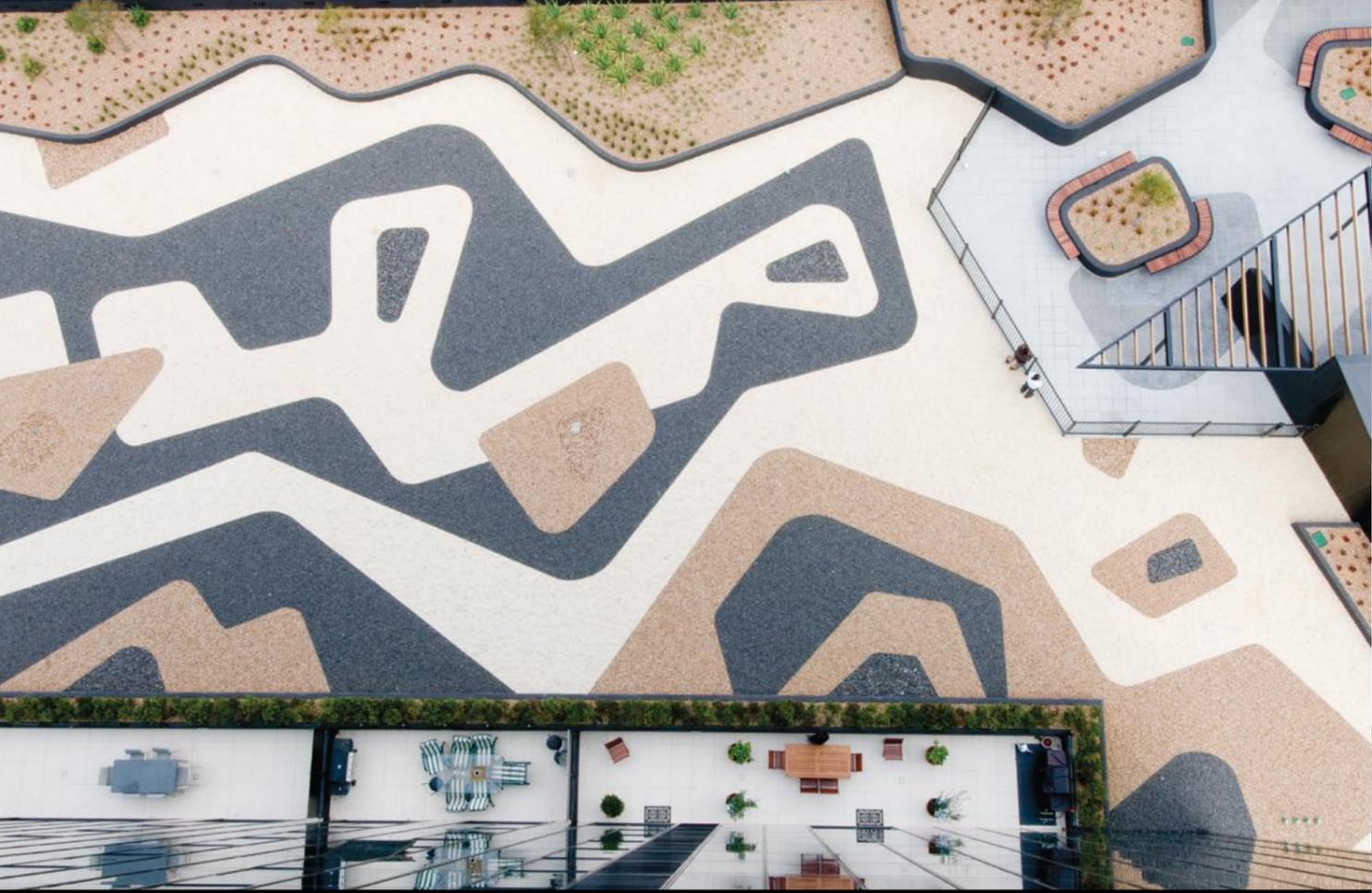
The NISC will accommodate administrative offices and staff facilities for the centre, as well as office accommodation for:

Olympic Winter Sports Institute, (OWI)
Ice Hockey Victoria
Ice Hockey Australia
Ice Skating Australia
Victorian Ice Racing Association
Melbourne Ice.

Specialist ice sports medical suite
Specialist ice sports training, health, fitness and recovery facility.

The Olympic Winter Institute of Australia will locate its administration and operate its programs at the Centre. The OWI, an initiative of the Australian Olympic Committee (AOC), provides coaching to, and develops elite athletes in winter sports, including ice sports, to Olympic and international levels. The AOC and the Australian Sports Commission, and the Australian Institute of Sport provide funding to the OWI.

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QUALITY LANDSCAPE DESIGN

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The Icehouse landscape design has been undertaken by Suresh Shiva, Director. Working closely with ING, Hansen Yuncken, and Cox

Architects, the landscape design has been carefully integrated within its Melbourne Docklands urban context, and the indigenous Moonee Ponds riparian creek environs.

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EXPERTS AT REDUCING RUBBISH

DC Bin Hire Founder and Director Don Santalucia has an agenda for the waste industry – to maximise the amount of material recycled, re-used and reclaimed, and minimise what's simply sent to landfill as rubbish.

For the National Ice project, DC Bin Hire supplied all the waste bins for the removal of building waste, and succeeded in recycling 80 per cent of the 1,500m3 of extraneous materials through their connections in the materials industry. The recycled materials included timber, ferrous and non-ferrous metals, cardboard, plasterboard, plastic, clean fill and concrete.

“The percentage of non-recyclable waste improves as time goes on, at some stage we might get it down to only 10 per cent going to landfill,” said Don Santalucia.

“When we collect the bins from a site, everything is brought to our depot at Campbellfield for sorting by our recycling team. Then it is distributed through the network of contacts we have built up. For Green Star rated jobs, every month with their invoice we will produce an itemisation of all their materials and where they went.

“Where DC Bin Hire aims with our service is perfecting the waste industry; we are involved in fine tuning the recycling, and would like to

get even that 10 per cent figure down as far as we can. Every day we are trying harder to refine the recycling, which in turn means we can better assist with landfill management, by reducing our waste contribution.”

DC Bin Hire have been in the waste management business since 1996, and have a fleet of five radio equipped trucks operated by experienced personnel with a sound knowledge of Melbourne's geography, types of bins and bin locations.

The company has a wide range of waste/recycling/skip bins for hire, ranging in size from a 2.5m3 capacity through to a 25m3 size suitable for major demolition or construction works. As part of their service, they will organise any permits required, and are accredited with numerous councils across both Metropolitan and Greater Melbourne and surrounds. Their office is open for bookings Monday to Saturday, 6am to 4pm, and while at least 24 hours notice is preferred, same day deliveries are possible, as are Sundays by prior arrangement.

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SUCCESS IN HIGH PLACES

Close Commercial Services (CCS) operate literally at the top, offering a supply and installation service for metal roofing, wall cladding and Ortech Durranel systems.

CCS recently completed the National Ice Sports Centre, a project constructed by Hansen Yuncken which included Kingspan metal roofing, Ortech Durranel wall and ceiling systems and Ampelite wonderglass external wall cladding.

The major challenge of this project lay in the fact a building of this nature had not been constructed in Australia before, and there were problematic climate related issues which needed resolving in order

to maintain a controlled environment. Working closely with H&Y design team, the end result is a major success.

Due to the limited timeframe on this project CCS utilized the state of the art Ortech lifting frame system, which allowed roof bays to be built on the ground and lifted into position. This was not only time effective, but was also a very safe installation method.

Close Commercial Services has also recently completed 6500m2 of roof / Ortech works at Melbourne Airport T2e expansion using a similar system of installation, also with great success.

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National Ice Sports Centre, VIC

