

# Tweed Region Aquatic Centre



Project **Tweed Region Aquatic Centre**  
Location **Murwillumbah**  
Product **KS 1000 RW Roof Panel**  
**KS 1000 AWP Architectural Wall**  
**Panel Micro-Rib Profile**  
Architect **David Hood**  
Installer **Hales and Lunn**  
Building use **Leisure**

## Case Study

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**FIREsafe™**

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**AQUAsafe**

*Constructive  
Thinking*



**Kingspan®**

Insulated Panels

## Tweed Region Aquatic Centre Chooses Kingspan Aquasafe Insulated Panels for Smart Contemporary Look and Non Corrosive Finish

The high humidity and corrosive chlorine environments of indoor swimming pools and aquatic centres have presented major challenges to building owners and designers who want a thermally stable, high performance building with a long life span. Historically steel panels have not been suitable and conventional insulation techniques have proven to be highly unstable given their permeability and inability to resist the high humidity and corrosive impact from chlorine in these environments.

Inspired by the stunning backdrop of Mount Warning and the clean lines of the townships historic Art Deco Architecture, the Tweed Regional Aquatic Centre in Murwillumbah marks a turning point in this history. Architect David Hood chose Kingspan KS1000 RW Insulated Trapezoidal Roof panel in Colorbond Woodland Grey complimented by Kingspan Architectural Wall Panels in Micro-Rib profile (KS1000 MR) in Colorbond Citi. Both utilise Kingspan's new Aquasafe liner- the Aquasafe coating is a specially developed 200 mm plastisol layer which is used on the internal liner. The combination of the non corrosive Aquasafe surface with the closed-cell, rigid PIR insulation core and purpose engineered panel joints, result in an impermeable barrier.



The \$16.5M Aquatic Centre and Multi Level car park was designed and constructed by Multi Span Australia Pty Ltd to provide facilities to the regional and international community. Its main focus is to cater to the needs of family and youth. Completed over a 15 month time frame, the centre comprises a 25m indoor lap pool and integrated dive pool, 1m and 3m dive platforms, learn to swim indoor Pool, Indoor Hydrotherapy Pool, 50m outdoor pool with 8 lanes, outdoor interactive Kids Leisure Pool, outdoor hillside water slide. The centre also has the "Starting Block Café" which serves the internal pool patron as well as external clientele.

David Hood comments: *"Kingspan Insulated Panels are a sound solution for this type of project. They satisfied all our requirements with ease. The insulated panel technology provides a pre-finished product – they are quick to install, have good insulation properties to aid in compliance with building regulations, and with the secret fix installation provide clean lines which adds to the overall aesthetic effect. The Aquasafe liner provides a protective internal skin that will resist attack from the internal pool environment, and all this is backed by a 15 year guarantee."*

*"The Kingspan panels allowed the structural design of the building to use less supporting steel, leaving the internal environment with clean lines and minimal internal structural steel exposure. The spanning capabilities of the Kingspan panels allowed us to design an efficient structurally sound model, which gave us savings in terms of time and money spent on onsite materials and construction."*

*"The Kingspan panels are one of the major elements that contribute to the aesthetic success of the design of internal pool environment and to the external streetscape. The internal flush finish of the protective Aquasafe liner created the desired clean, crisp internal finish that we were looking for. The external sweeping roof lines with the wide ribbed Kingspan RW profile allow the roof to fold and rap down the building façade creating the desired architectural form."*

*"We would favour the Kingspan panel system over conventional individual building element systems for their reliable insulation properties, long self-supported clear spans, concealed and expressed jointing options, cost savings as a result of ease and speed of installation and the overall aesthetic."*

*"The design innovation, pool operations and centre management of the centre are being celebrated as a benchmark design for aquatic design in Australia."*



The Kingspan roof and walls panels, were installed by Hales and Lunn. Commenting on Kingspan Lee Hendrie of Hales and Lunn says: *"Kingspan insulated panel systems were great to work with and gave us a very modern and smart look. They are ideal for a whole range of projects including commercial and industrial buildings as well as shopping centres. They would work well for all buildings that need to be insulated."*

Kingspan insulated panel systems comprise the external finish, bonded to a rigid insulation core with pre-finished internal liner offering an all-in-one package offering an effective alternative to traditional multi part systems. The high performance FM Approved Polyisocyanurate (PIR) core offers up to twice the thermal performance of most conventional insulation materials. Combined with the quality engineering of the panel joint, which allows minimum air leakage, the panels create a high performance envelope. The unique spanning capabilities of the panels reduce the secondary steel requirements by up to half (purlins in the roof and sheeting rails for the walls) generating considerable cost savings in materials and labour.

Helen Flood Kingspan Marketing Manager: *"Kingspan are market leaders in insulated panel technology and the company is not content to simply produce premium performance panel systems; we also look to achieve that extra edge in innovation and design for our products. This particularly is true for Kingspan panels as not only can they be installed up to 50% faster than site assembled built up alternatives, which offer up front savings, but the systems also have lower operational costs because of a higher performing building envelope."*

Kingspan reserve the right to amend product specifications without prior notice. The information, technical details and fixings advice are given in good faith but are intended as a guide only. For further information please contact Kingspan Insulated Panels.

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