



Project/Client	Fraser Cove / RPG NZ
Location	Tauranga, NZ
Main Contractor	Legacy Construction
Panel Contractor	Roofing the Bay
Panel(s)/Colour(s)	Roof: KS1000RW (Trapezoidal) Surfmist KS1000Safespan Rooflights
	Wall: KS1000AWP (Architectural) Mountain Blue

Case Study



Fraser Cove, Tauranga

Tauranga's Fraser Cove Shopping Centre Chooses Kingspan Insulated Panels for Roof and Wall Cladding

"Green" Solution Leads the way in High Performance Building Practice

Kingspan's Trapezoidal insulated roof panel (KS1000 RW in Colorbond Surfmist) and Architectural wall panels in Micro-Rib profile (KS1000 MR Mountain Blue) were specified for the contemporary extension to Fraser Cove Shopping Centre in Tauranga. The complex was designed by Jensen Chambers Young Ltd, supported by New Zealand Retail Property (who worked closely with JCY when researching materiality) and constructed by Legacy Construction Ltd. The extension comprised a separate 1000 sqm outlet store on a single floor plate and was conceived to provide additional tenancy space for an outlet store and retail mix as part of the overall expansion and upgrade of the existing shopping centre.

Eddie Young (Architect): "The Kingspan finishes were in keeping with the existing retail centre. Horizontal architectural wall panels were used to 7.6m above the 4m glazed shopfront windows and we also utilised the Kingspan trapezoidal roof panel"

Mr. Young: "We chose Kingspan because the panels had built in insulation & pre-finished cladding advantages and had a pleasant, clean modern aesthetics with a uniform colour finish. They were convenient and easy to install."

"Our feedback from the contractor and project manager for the roof was very positive. They were able to install a fully insulated and operating roof in half the usual construction time. During inspections, the roof felt very secure and solid when walking across without needing to walk along structural lines (to avoid bucking the troughs as in standard roofing steel profiles). This is an added benefit for roof access and maintenance." Commenting on the design possibilities afforded by the Kingspan insulated panels, Mr Young: "The product gave us confidence to design large wall panels in a modular grid pattern. Its superb design with hidden fixings and a range of ancillary components to complete the desired look, ensured invisible joints between panels and a stable thermal environment within the building. Because of the seamless jointing system, we didn't have to allow for hiding and covering of fixing points or for the vagaries of painting over irregularities in the surface."

But a triumph in aesthetic impact is not all that Kingspan delivered in the buildings. The selection of the innovative Kingspan Architectural Wall Panel in Micro Rib profile (KS1000 MR) and Kingspan Trapezoidal Roof Panel (KS1000 RW) also flags the embrace of the latest in sustainable construction practices by one of New Zealand's leading design firms. The Kingspan panels achieved a maximum thermal performance for the building, with a thermal rating that is up to double the effectiveness of conventional insulation systems.

Importantly it provides a revolutionary new design and construction approach which requires thinking at the very beginning of the design process about the impact of the Kingspan technology will have on the way the building can be constructed. It forms an important starting point on a roadmap to promoting high performance building industry practices in the region.

Paul Metcalfe, General Manger of Kingspan Ltd New Zealand, comments: "Globally, Kingspan has been leading efforts in energy efficiency and sustainable construction in the building materials sector. This local project gave us a wonderful opportunity to demonstrate the considerable performance and aesthetic benefits of Kingspan's internationally accredited insulated roof and wall panel technology." "Green buildings make good business sense as they attract and retain investment, customers and staff. This is the logic that flows from the way they reduce operational expenditure and limit exposure to rising energy prices as New Zealand moves rapidly towards a reduction in green house gas emissions.

Helen Flood Kingspan Marketing Manager: "Kingspan are market leaders in PIR (Polyisocyanurate) 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 insulated panels comprise the external finish, bonded to a rigid FM approved PIR insulation core with a prefinished internal liner. The systems offer an all-in-one package. It revolutionises the traditional construction process by combining water tight panel design, an insulation material that has double the thermal performance of conventional insulations and spanning capabilities that can reduce the secondary steel-requirement by half. , the system revolutionises the traditional construction process.



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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