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**BUILDING**

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To Whom it May Concern

**Re: Reference for Thermosash - ASB North Wharf Project**

In March of 2011 Fletcher Construction commenced work on Kiwi Income Property Trusts new ASB North Wharf Head Office, Jellicoe Street, Freemans Bay, Auckland. We had identified very early that the External Façade elements of this extremely unique Project would prove to be a major challenge both technically and programme-wise.

The External Façade had been broken into numerous 'packages' when I became involved in the project. Over a period of months these packages were tendered and evaluated by Fletchers and the Clients Consultants and Project Managers. We were delighted to be able to award everything except a few Shop Fronts to Thermosash Commercial Ltd.

While the majority of the Glazed/Unitized Panels were relatively straight forward, there was a large area of Structural Glazing that enclosed numerous bridges that linked the two buildings. Given the significant 'movement' that this Structural Glazing needed to accommodate between the two buildings, on most projects, this would have been the major challenge. However on this project, there were even greater challenges.

The Eastern of the two buildings has a striking contoured shape facing North, with vertical solar shade blades, connected to the curtain wall system. Thermosash took this challenge in their stride and their design/shop drawing process, fabrication and installation went extremely smoothly.

I have purposely saved the major challenge for last, that being the unique solar shading to the Western Building. We are not aware of a similar design, certainly not in New Zealand or Australia. A series of stainless steel strands forming diamonds at approximately 1200mm centres, with in excess of 4000 shaped and punched aluminium 'Leaves' attached to these strands, forms this solar shading.


Thermosash recognised the unique technical challenges of this 'Design Build' element and in addition to their own considerable in-house engineering expertise, sought the assistance of an external engineering specialist. David Hayes and Roger Giese worked closely with my team, the Architects BVN/Jasmax, Engineers Buller George Turkinton and Façade Consultant

Peter Lalas (Janus Facades Pty Ltd) to develop a Design Build solution that met all criteria.

The on-site 'Installation' required the same level of expertise and quality control that the 'Design' had demanded. Both were achieved in the confines of a very tight construction programme and the completed result is striking and a credit to Thermosash.

I have no hesitation in recommending Thermosash Commercial Ltd for any challenging External Façade, as David Hayes, Roger Giese and their team 'delivered' yet again, for us and our clients.

Yours faithfully



Alan Gray  
**Project Director**