



**NEW ZEALAND**

**ENGINEERED SOLUTIONS**  
Professional design and build engineers

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Case Study  
**PASSENGER GANGWAY AND LIFT BRIDGE**  
FOR CENTREPORT WELLINGTON





## GANGWAY

In July 2005 when CentrePort required a new passenger gangway quickly they contacted Windsor. A new interisland ferry was already on its delivery journey and a new and unique passenger gangway was required for the new berth.

In just five weeks from the initial meeting to discuss CentrePort's needs Windsor had:

- Established the specification
- Researched possible options
- Pre-engineered a solution including:
  - Mechanical/structural design
  - Hydraulic system design
  - Electrical and control design
- Produced a complete turnkey proposal



The project phase followed, during which Windsor worked closely with the client and numerous contractors, engineers and architects etc. to achieve an "on time" delivery in what was a very tight time frame.

The gangway was completely shop assembled (including hydraulics and electrical components). It was transported to site and craned into position in a single day in December 2005. Commissioning trials and operator training were completed soon after.



## LIFT BRIDGE (tuck away design)

CentrePort had the issue of providing a solution for transferring passengers across a railway corridor. Passengers had to cross a 7 metre gap between the existing ferry vehicle lower and upper vehicle loading ramps. A moveable bridge was required.

Windsor explored several options came up with a brilliant and innovative design for a cost effective and efficient lift bridge. Windsor designed, manufactured and installed a bridge with a collapsible roof which, when not in use, rises vertically and tucks neatly away below the upper vehicle access ramp.



### THE RESULT

*" Windsor Engineering has played an important role in the successful provision of passenger access for the Interislander's ferry 'Kaitaki'. Their ability to design and construct a cost effective and innovative solution, within the tight timeframes available, has enabled CentrePort to provide an excellent facility for our customer ".*

*" CentrePort Wellington chose Windsor Engineering in the knowledge that they would deliver, and have the flexibility to work with other contractors to ensure the project was completed as quickly as possible "*

**Jon Kelly – Centreport Wellington**

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