

Altair® Louvre Windows with the

# STRONGHOLD® SYSTEM



*breezway*®

# Stronghold<sup>®</sup> System

**Altair<sup>®</sup> Louvre Windows with the Stronghold<sup>®</sup> System** are now the logical inclusion when extra strength and safety is required in commercial or residential buildings.



The pin secures the blade to the bearing and clip from inside.

## Strong and Secure

Altair Louvre Windows with the Stronghold System have been designed to achieve higher blade retention and provide greater design flexibility in buildings.

Ideal for use where people could fall one metre or more from a window opening, Altair Louvres with the Stronghold System gain the benefits of full ventilation whilst providing added safety to the entire window.

In multi-story applications, a balcony enclosure or wintergarden can be created to provide extra year round living space. Occupants can enjoy the winter sun in a protected spot or take advantage of fresh breezes.

## Testing and Loads

Altair Louvres with the Stronghold System exceed the requirements of NZS 4211-2008 "Specification for performance of windows" and has completed sphere and static load testing to ensure compliance with clause F4 and document B1 of the Building Code.

**Please Note:** The Stronghold System is a window, not a balustrading system.

Altair Louvres with the Stronghold System have passed extensive testing to prove its ability to safely retain blades within the clips even when subjected to heavy loads.

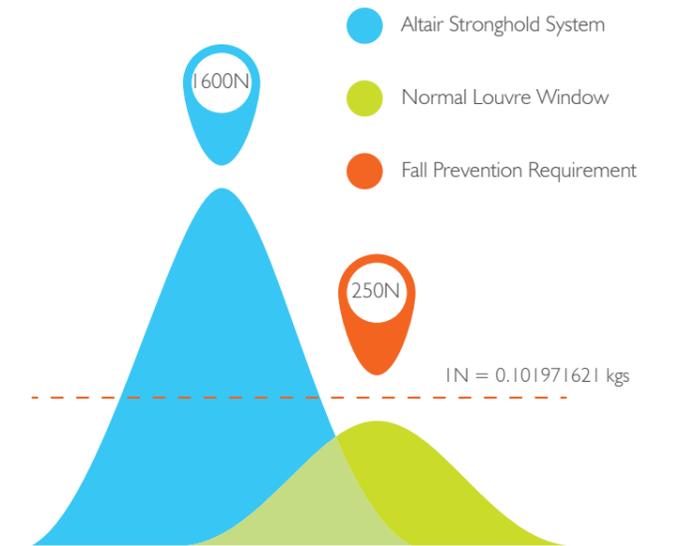
With the louvre open, a pneumatic ram is used to apply loads of up to 163kgs to the edge of the toughened Stronghold glass blade without breakage.

In the closed position, the face of a toughened Stronghold glass blade can sustain loads of up to 75kgs without breakage.

## Product Offer

- Available in Component Form to fit a number of different framing systems by approved Breezway Fabricators.
- Wide choice of colours available.
- Suitable for all handle types or as an Altair Powerlouvre™ Window System.
- Available for use with 6mm thick, 152mm or 102mm drilled toughened glass or aluminium blades.

## Load applied to louvre blade in open position



AS/NZS 1170 Occupancy	A		A (other), C3, B & E		C1/C2, C5 & D	
Concentrated Design Load (kN)	0.25		0.5		1.5	
Window Position above internal floor	>1200mm	<1200mm	>1200mm	<1200mm	>1200mm	<1200mm
Concentrated Ultimate Load (kN)	0.187	0.375	0.375	0.75	1.125	2.25
Altair Louvre with the Stronghold System with 6mm toughened glass or Breezway aluminium blade to max blade length 700mm	Y	Y	Y	Y	N	N



Visit [www.breezway.co.nz](http://www.breezway.co.nz) for more information.

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Window Fabricator:



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