

THE BREEZWAY  
IDEAS BOOK



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# Altair<sup>®</sup> Louvre Windows by Breezway

We think that Breezway Louvre Windows are the best type of window available. They're stylish, versatile, energy efficient and totally customisable. We hope that by the time you've finished reading through this brochure, you'll agree with us.

Through this brochure you'll find:

- Ideas on how Altair Louvre Windows can enhance your home,
- Information on the energy efficiency of Altair Louvre Windows and
- Guidance through the various customising options available.

We are available to answer your questions, chat through your needs or suggest a local Breezway Window Fabricator. So visit our website [www.breezway.com.au](http://www.breezway.com.au) today to locate your closest Breezway Office and our louvre experts will be more than happy to help.

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## They don't make louvres like they used to

Louvre windows have changed significantly since we began manufacturing them in the late 1940's, but they are still a practical and stylish window choice.

### Key features of modern Altair Louvre Windows:

- Cyclone rated for wind and water to ensure maximum performance.
- Tight sealing due to the patented 'living hinge' and drainage channel design.
- Energy rated to suit various climates.
- Improved security available with optional integrated keylock, security bar systems or easily fitted security or insect screens.
- Manufactured exclusively from non-corrosive materials.
- Award winning Altair Powerlouvre Window with concealed motors.
- Each window is made to order, allowing the widest choice of customising options.
- Altair Louvres with the Stronghold System pins louvre blades in place to provide extra strength and safety in residential buildings or balcony enclosures.





## Maximum Ventilation

Fully open, louvre blades are close to horizontal. This means they provide very little resistance to the air entering through the window opening. In effect, you get twice as much ventilation as you would through a same sized sliding window or double hung window.

The benefits of Altair Louvre Windows over other window types don't end with ventilation. When open, they don't get in the way of passing traffic. They can be left open in gentle rain. And the inside and the outside surfaces can be cleaned from inside the building (handy in multi-storey buildings.)

# Free air in every room of your home

Houses heat up. Sun on the roof and before long you've got a hot box. A hot box that's often much hotter inside than the air outside.

To counter this you can install electric air conditioning.

Alternatively, you can keep your home comfortably cool, almost every day of the year, simply by opening it up.

Altair Louvre Windows by Breezway let you do this with stylish design and elegant simplicity. More than any other window option they allow you to fully embrace the cool change. To invite in the refreshing breezes during or after a rain shower.

Essentially, Altair Louvre Windows help you to create a living space that works with nature rather than against it.

A light and airy place where, through louvres wide open, you can hear the lovely morning birds and smell the frangipani.

This is what we mean by free air. And you can have it in every room of your home.

Tip: Use timber or aluminium blades in summer to block out the hot sun, then change them to glass blades in winter to let the sun's warmth into your home.

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# Let's look at the bedroom



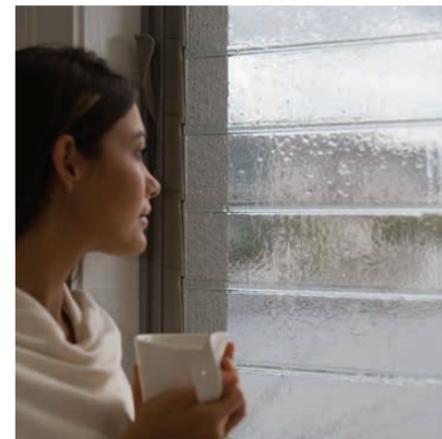
## Internal Louvres

To really effectively cool a room, you need to let cool, fresh air in and also let warm, stale air out. This can be tricky if a room has only a single outside wall.

Altair Louvres in the SL2 Window System can be an ideal solution. They offer maximum ventilation for their size and can fit into any space available.

Fully assembled and ready for installation, the SL2 Window System is well suited to narrow frame applications or installation into concrete block construction.

By using timber, aluminium or frosted glass blades for internal louvres this will provide privacy and the tight sealing of Altair Louvres means conversations can remain private.



What every bedroom needs is a breath of fresh air. And the best way to get lots of fresh air inside is with Altair Louvre Windows.

Fully open, the louvre blades are close to horizontal.

Concerned about wind and rain? The patented 'living hinge' design of Altair Louvre Windows ensures that, when fully closed, they seal tight to provide superior wind and water performance.

Importantly, Altair Louvre Windows by Breezway are available with a key lock mechanism or a security bar system and security screens can easily be fitted, so you and your family can sleep tight at night.

Tip: For those with limited space for a window (eg. in a small bedroom) Altair Louvre Windows provide good ventilation through a much smaller window opening.



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## Did you know

Generating the electricity to run a single average living room sized airconditioner can cause the release of around 5 tons of greenhouse gasses per year.

# Lounging about

Altair Louvre Windows in the lounge room ought to be compulsory.

Okay, we're a little biased about that. But think about it. Is there a better, cheaper or more stylish way to have complete control of the air flowing through your living area?

We think not. And most leading architects and designers agree.

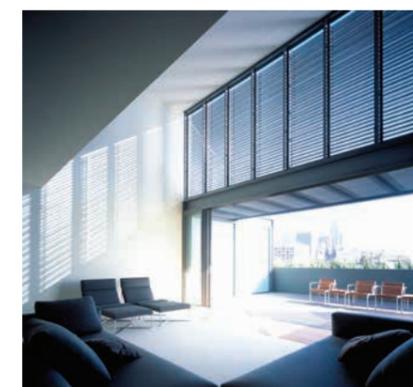
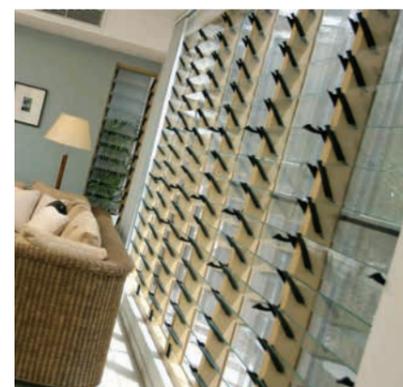
Worried about mosquitoes or other flying insects? Insect screens are available.

Choosey about colours? Breezway gives you more matching frame, handle and clip options than anyone else.

Nosey neighbours? The choice of timber and aluminium blades means you can have your fresh air and your privacy, too.

Have a good look at the enormous bank of louvres in the main photo and tell me you wouldn't want a living area like that in your home.

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# Create extra living space

Are you looking for an innovative way to enclose an outdoor area to make it more functional, regardless of what time of year it is?

Altair Louvre Windows can be used to create extra living space and extend your outdoor time. Designed for tough Australian conditions, Altair Louvres open fully to allow fresh air in, yet seal tight to ensure protection from the elements. A perfect alternative to shutters!

Create your own enclosed space that is positioned to capture the winter sun and use glass louvre blades to shield you from cool winds while enjoying scenic views. Alternatively, you can use Altair Louvres with timber or aluminium blades to create a privacy screen or to shield the summer sun while still obtaining fresh air.

Tip: Altair Louvres are also a great option for stairways, walk-in-robos, adjacent to landings, at corridor ends, in toilets, in garages and up high in lofted areas to vent and replenish the air you breathe.

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## Choice of glazing to suit your environment

Altair Louvre Windows have a wide variety of glazing options to suit various climatic conditions.

In warm climates a primary consideration is to reduce the amount of hot sunlight that enters the home through the windows. Toned glass and timber blades are great options.

In cooler climates low e coatings are beneficial as they increase the insulating properties of glass yet still allow free heating from the sun on cold days.





## Did you know

Many houses in New Zealand and the USA are experiencing problems with mould and mildew due, in part, to insufficient ventilation.

# Steam free

Steam is good for locomotives, but not so good in your bathroom. Install exhaust fans if you wish, but really, the best option is to include louvres in all your wet areas to let in fresh air and light.

Clever architects and designers are now putting Altair Louvre Windows (with timber or aluminium blades for privacy) behind towel rails to fast forward the drying process.

We make little louvres for installation near vanity mirrors to stop them fogging up.

Our louvres in laundries also make sense, if only because they help stop the mould growing.

By the way, when it's blowing a gale outside, it's good to know that Altair Louvre Windows are the most wind and rain resistant product of its kind anywhere in the world.

This is due to our patented 'living hinge' mechanism which ensures an extremely firm fit between the louvre clips and channels to resist water and air leakage.



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# If you can't stand the heat get some louvres in the kitchen

## Modern glass technology

Warm sunlight flooding through a window is great when it's cold. You don't need to turn on any heaters to warm things up. But normal windows allow most of this heat to leak right back out of the building.

Modern technology to the rescue! Altair Louvre Windows are available with clear glass blades with a microscopically thin layer of metallic oxide. Thin enough to be invisible to the naked eye, but thick enough to improve the insulating properties of the glass.

The result is that sunlight streams into your home, but your Altair Louvre Window's insulation becomes comparable to that of a double glazed window. All without compromising your views – clever scientists!

Beetroot may taste nice but it smells pretty ordinary when it's cooking. Ditto cabbage, cauliflower and fish.

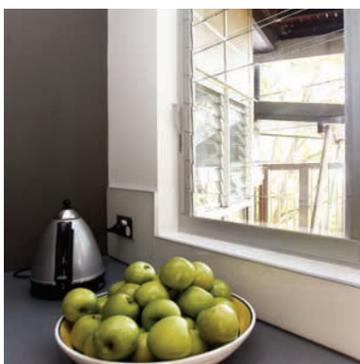
It goes without saying that a set or two of Altair Louvre Windows are a wise inclusion in every kitchen. They'll get rid of the smells and help dissipate the heat of your next hot pot.

By the way, the stylish handles on our louvres can be positioned to the left, to the right, up high, or down low. This makes louvres easy to open in hard to reach places.

As you know, hot air rises. So if you have a lofted ceiling in your kitchen, you might consider setting some Powerlouvre Windows up high to help keep the air sweet.



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# The Altair<sup>®</sup> Powerlouvre<sup>™</sup> Window

Personal jet packs, holidays on the moon, windows that automatically open to cool your home, then close up in conjunction with other household equipment when you leave the house. The first two are still a way in the future, but Altair Powerlouvre Windows are available now!

Designed to reach heights of up to 2.7 metres and 4 metres wide, the Altair Powerlouvre can be operated by the Powerlouvre Apptivate Control Unit which allows control via a touch sensitive wall plate, remote control via a Powerlouvre App for smartphones and tablets, or automatic operation in response to temperature or timer events.

Powerlouvre Windows can even be wired into smart automation systems to allow control along with other automated building products and automatic operation in response to various sensors and inputs.

Live somewhere really cold, or super-hot? No need to worry, they've been tested to perform in temperatures from 0C right up to 60C and can even handle 90% humidity at 35C.

Best of all, the motors are concealed within the framing system, so there are no ugly external motors, bars or connecting rods.

**powerlouvre**<sup>®</sup>  
by breezway

## An award winner

*'My favourite this year was the Powerlouvre System, a very clever and clean looking concept'*

Clive Solari, NSW president of the Design Institute of Australia, when announcing the Altair Powerlouvre Window System as the winner of an Australian Window Association Design Award.



The Altair<sup>®</sup> Powerlouvre<sup>™</sup> Window Motor is concealed within the head of the window frame.



# The Altair<sup>®</sup> Stronghold<sup>®</sup> System

Altair Louvre Windows with the Stronghold System are now the logical inclusion for achieving good ventilation while providing added strength and safety in residential dwellings or balcony enclosures.

The revolutionary Stronghold System uses a pin system that mechanically retains glass or aluminium louvre blades and is great for windows near swimming pools, creating wintergardens by enclosing high level balconies or for other areas around the home that require added protection.

The Stronghold System also easily passes the Building Code requirements for fall prevention through openable windows. You can now gain the benefits of abundant ventilation whilst providing extra safety to the entire window opening. This is in comparison to other window types that leave the room hot and uncomfortable due to restricted openings or windows with woven mesh screens that can be expensive, affect views and reduce ventilation.

**STRONGHOLD**  
by breezway



## Stronghold<sup>®</sup> Window System

Altair Louvres with the Stronghold System can be screened, and offers privacy options when using aluminium blades. The System has been tested to AS2047 'Windows in Buildings' and to ICP005 'Protection of Openable Windows' to ensure superior performance.

Available within the Breezway Easyscreen, Innoscreen or SL2 Window Systems in 102mm or 152mm glass or aluminium blades.

# Screening options for your window

The Breezway Easyscreen Window System is a great framing option that offers external screening for Altair Louvres in resorts, government buildings, social housing, schools or any other project where fresh air and energy efficient control of the building environment is important.

The Easyscreen Window System has been specifically designed for use with Altair Louvres which ensures superior wind and water penetration performance and improved aesthetics.

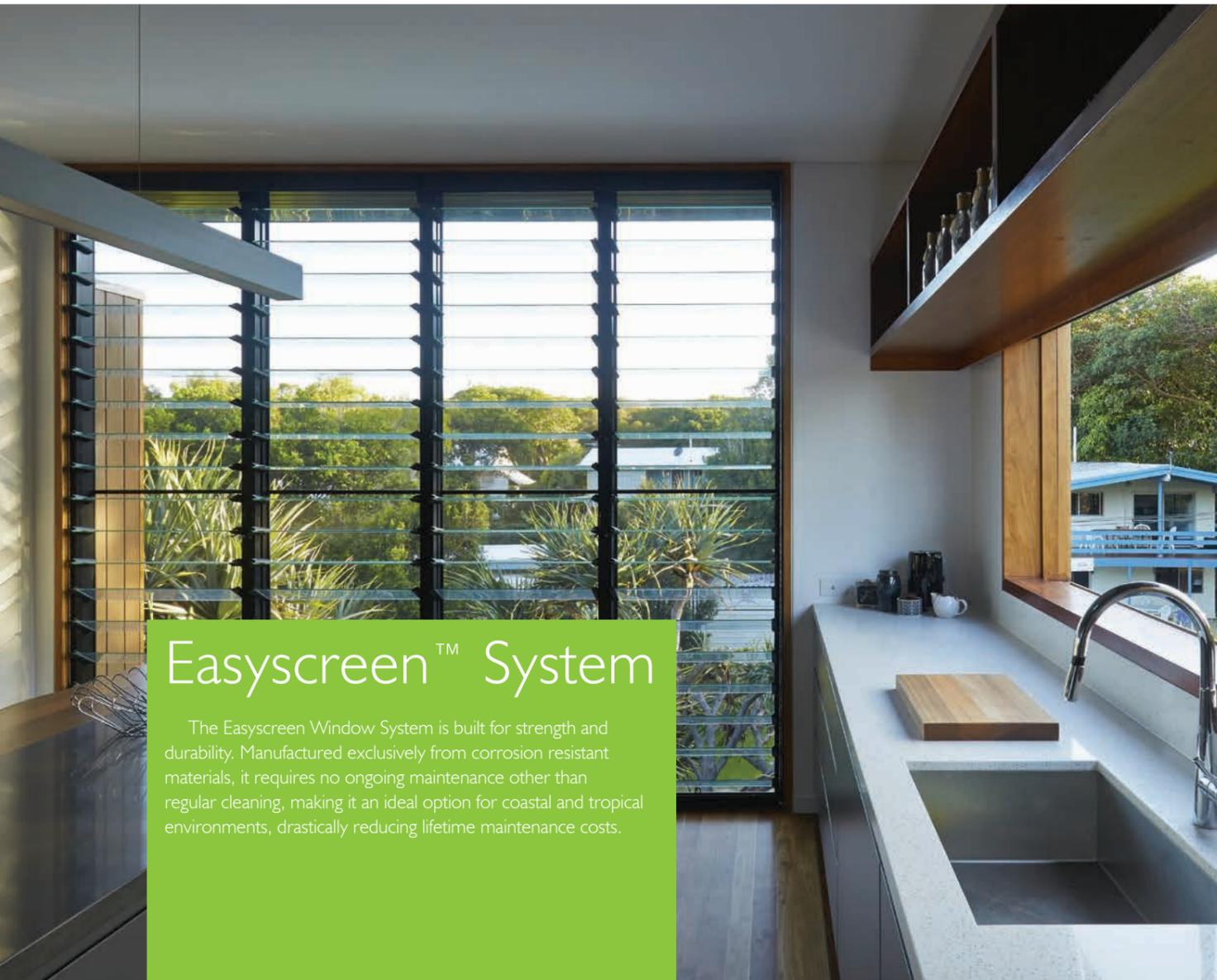
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# Looking for internal screening?

Breezway offers an inside screening Altair Louvre window solution in a hassle-free framing system. It is the ideal framing option for those who want to screen their home but keep that 'louvre look' to optimise the external aesthetics of the building.

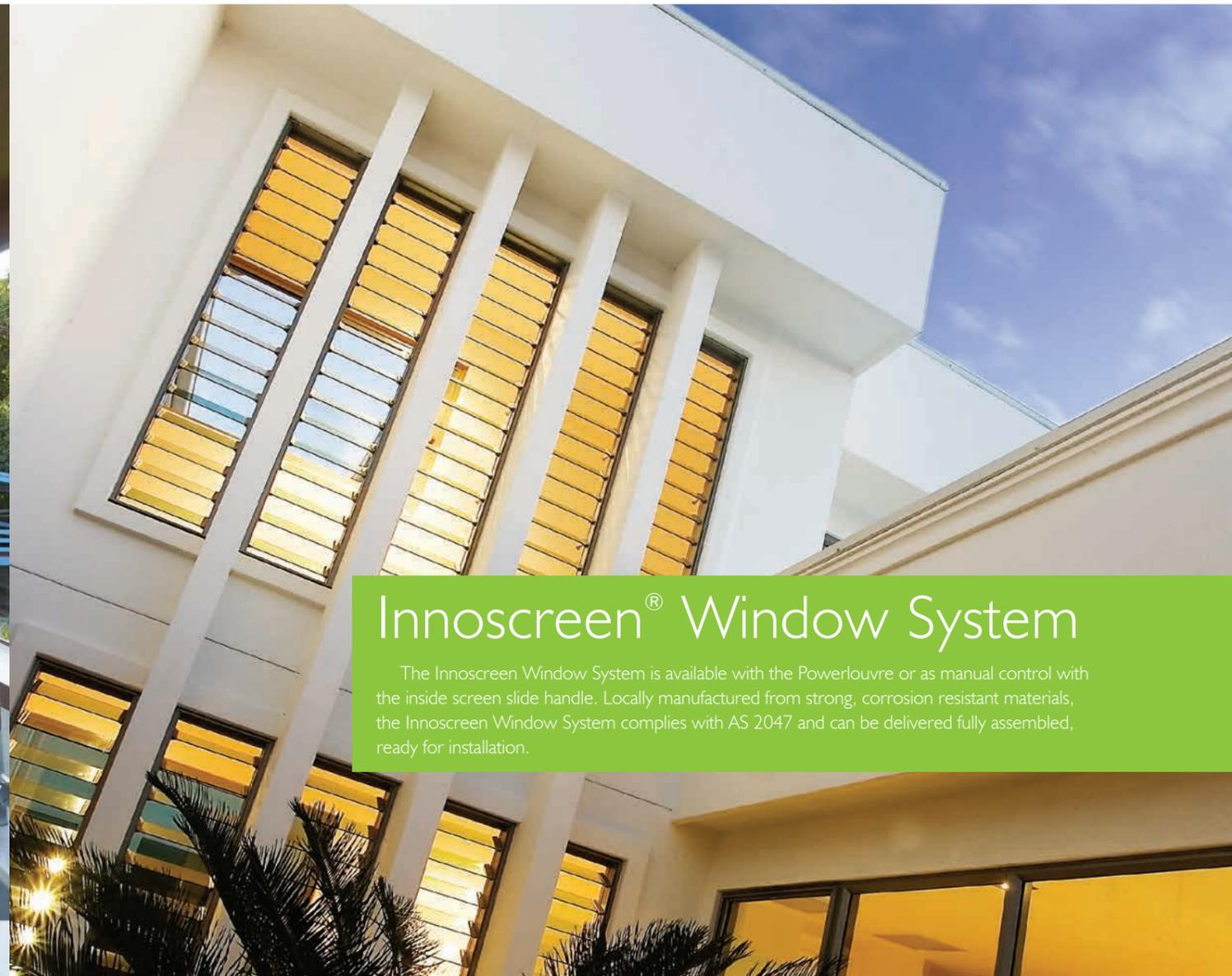
The Innoscreen Window System is safer and saves time, as windows above the ground floor can be easily screened from inside the building. Makes for safe and simple screen cleaning too!

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## Easyscreen™ System

The Easyscreen Window System is built for strength and durability. Manufactured exclusively from corrosion resistant materials, it requires no ongoing maintenance other than regular cleaning, making it an ideal option for coastal and tropical environments, drastically reducing lifetime maintenance costs.



## Innoscreen® Window System

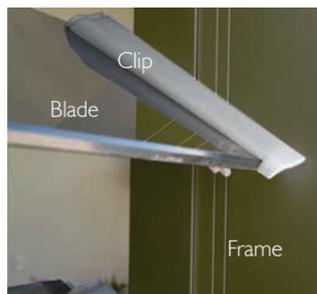
The Innoscreen Window System is available with the Powerlouvre or as manual control with the inside screen slide handle. Locally manufactured from strong, corrosion resistant materials, the Innoscreen Window System complies with AS 2047 and can be delivered fully assembled, ready for installation.

# Altair® Louvre Window Selection Guide

This section will help you choose the right combination of Altair Louvre Windows by Breezway for any residential or commercial application. Just follow these 7 simple steps.

## Step 1 Select your choice of frame

When selecting your frame think about the design, colours, maintenance level and energy requirements of your home. There is a wide selection of frame colours to choose from, with options to suit varied applications. Ask your Breezway Window Fabricator to show you the choices available.



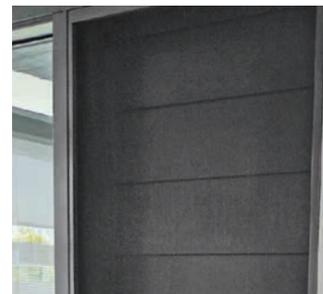
### Aluminium\*

Aluminium frames are low maintenance and can be powder coated in any colour you like or simply anodised.



### Timber

Timber frames create a warm feeling when used throughout your home. Timber conducts very little heat, making it an energy efficient option. Altair Louvre Windows can be installed in all of the timber varieties commonly used to build window frames.



### Mesh Screens

Insect and security mesh screens can be fitted to the outside of Breezway Easyscreen Window Systems, internally using the Innoscreen Window System, or other compatible systems. Please specify your requirements during frame selection.

## Step 2 Consider the design of your Altair® Louvre Windows

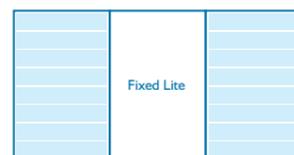
Breezway offer a range of sizes and shapes to provide greater flexibility within the home. Altair Louvres can also be used within internal walls as room dividers to improve cross ventilation and building comfort through better airflow.

### Multiple Louvre Windows



Make the most of natural air and reduce the need for air conditioning.

### Louvre/Fixed Lite Combination



To frame a view and gain good airflow.

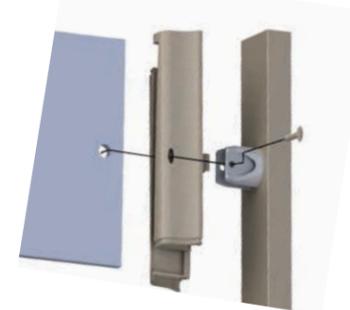
\*The Breezway Easyscreen and Innoscreen Window Systems have Sub Framing available for installation and use in commercial projects. For more information please contact Breezway.

## Step 3 Select your louvre blade

With Altair Louvre Windows you can choose blades that suit your surroundings. For a plantation or contemporary beach house look try timber blades. Glass blades let the outside in and aluminium blades add a sharp modernity to your home, are easy to maintain, and come in many colours.

### Added strength and safety

Altair Louvres with the Stronghold System are designed to mechanically retain blades so you can gain the benefits of full ventilation and safety in residential buildings.



### Thick or thin? Inside or outside?

Altair Louvre Windows are available with two standard blade heights: 102mm (4") and 152mm (6"). Can be used internally to better ventilate your home, on balconies to create privacy or as a feature wall to maximise fresh air and catch that special view.

### Hot or Cold Climate?

Your choice of blades can significantly improve the energy efficiency of your windows. Tinted glass blades or solid timber blades help to reduce solar heat gain which is beneficial in hot climates. In cold and mixed climates clear low e glass blades allow warming sunlight and improve the insulating properties of the glass.



### Timber

Timber blades let the breeze in and create privacy at the same time while reducing the amount of heat passing through the window. All timbers can be stained to blend in with your home.



### Aluminium

Aluminium blades are virtually maintenance free, can't rust and never need painting. Our aluminium blades are offered in an endless variety of powder coated colour finishes including Decowood for that eye-catching timber look.



### Glass

Obscure, etched, grey, green, bronze, toughened for extra strength and safety, with a clear low e coating for enhanced energy efficiency, or good old sparkling clear glass! As long as it's 6mm thick, almost every type of glass can be incorporated in an Altair Louvre Window.



### High performance aluminium finishes

For harsh coastal or industrial environments, aluminium blades with high performance, extended warranty finishes are recommended. Choose between solid colours, clear anodised finishes and finishes that give the look of timber, without the high maintenance levels.



## Step 4 Select a control method

Whether you prefer pulling a handle or using a switch, Breezway has a louvre window perfect for you. Consider the functionality of your window or the needs of the user when choosing a control method that will best suit the needs of each window.



### Powerlouvre™ Window

The award winning Powerlouvre Window is controlled by the Apptivate Control Unit, Powerlouvre App or Building Management System.



### Standard handle

Designed to fit the contours of the human hand for easy use.



### Ring pull handle

For up-high, out-of-reach louvre placement and operated by a map rod.



### Low profile handle

Designed for bi-fold and some sliding doors. The unique shape provides a functional fit that won't get in the way of blinds.



### Handle locking bar

Increase the locking pressure and further increase the window's air-tightness.



### Innoscreen® handle

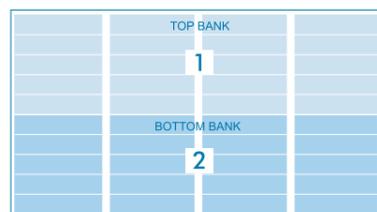
The Innoscreen handle allows you to easily operate your louvres when an inside screen is installed.

### Cool air within easy reach

Breezway gives you the design flexibility to have your handles where you want them. Each handle can operate a maximum of 9 blades and can be positioned on the left or on the right, up high or down low. Alternatively, you can choose the Powerlouvre Window with no handles.

### The Altair Powerlouvre Window

Powerlouvre Windows that are 2-9 blades high are wired such that the entire window opens and closes simultaneously. Powerlouvre Windows that extend 10-18 blades high are wired



such that all blades in the top halves of all the bays form a bank and operate simultaneously and all the blades in the lower halves of all the bays form a second bank and operate simultaneously. However, various switching and wiring configurations allow multiple windows to be controlled simultaneously or independently depending on individual preferences.

For convenient and versatile operation, the Powerlouvre Apptivate Control Unit and Powerlouvre App are available for the Powerlouvre Window. The window can be opened and closed with a single touch of a button or stopped in any intermediate position depending on the amount of airflow required by the user.

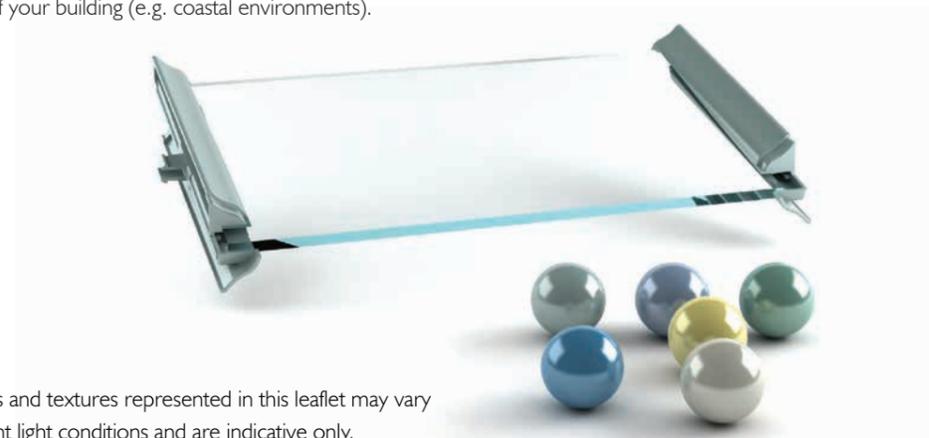


Single or dual channel models of the Apptivate Control Unit can easily control the Powerlouvre. The unit can automatically respond to an in-built temperature sensor and has Bluetooth compatibility for operation by smartphones and tablet devices.

The Powerlouvre App provides remote control operation of more than 10m and allows the naming of Apptivate Control Units for ease of identification. Powerlouvre Windows can also be automatically operated in response to temperature and pre-set timers by the smartphone or tablet. 'Night mode' adjusts the brightness of LED lights overnight to minimise potential sleep disruptions.

## Step 5 Select your colours\*

Breezway offers an extensive range of colours for Altair Louvre Windows that can be colour matched to your handles and clips to provide consistency in your design. We also offer high performance paint finishes depending on the atmospheric conditions of your building (e.g. coastal environments).



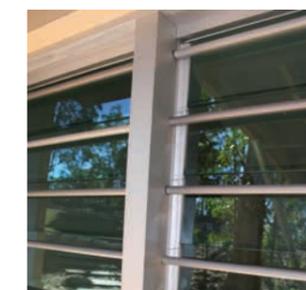
\* The colours and textures represented in this leaflet may vary under different light conditions and are indicative only.

## Step 6 Choose additional security options



### Key locks

Keylocks can be installed on your Altair Louvre Windows for added security.



### Security bars

Security bars are available to fit 152mm (6") blade heights making your home even more secure.



### Screens

Insect or security screens are available to further protect your building from insects or vandals.

## Step 7 Contact Breezway

Please contact your local Breezway Office to speak to a qualified louvre window expert and locate your nearest Breezway Window Fabricator.



Thanks to Paul Smith Images, Mojo Design, Australian Architectural Photography for their imagery and Artisan Homes and Civic Steel Homes for the use of their Display Homes as photographic locations.

# Altair® Louvre Window Standard Heights

Easyscreen™ Window System heights (Screens can be fitted to the outside of this frame)		Innoscreen® Window System heights (Screens can be fitted to the inside of this frame)		SL2® Window System heights		Galleries/Strip Hardware only including Weatherstrip*	
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All dimensions are in millimeters (mm)

No. of Blades	Height 152mm	Height 102mm						
2	371	-	380	-	358	-	330	-
3	511	361	520	370	498	348	470	320
4	651	451	660	460	638	438	610	410
5	791	541	800	550	778	528	750	500
6	931	631	940	640	918	618	890	590
7	1071	721	1080	730	1058	708	1030	680
8	1211	811	1220	820	1198	798	1170	770
9	1351	901	1360	910	1338	888	1310	860
10	1491	991	1500	1000	1478	978	1450	950
11	1631	1081	1640	1090	1618	1068	1590	1040
12	1771	1171	1780	1180	1758	1158	1730	1130
13	1911	1261	1920	1270	1898	1248	1870	1220
14	2051	1351	2060	1360	2038	1338	2010	1310
15	2191	1441	2200	1450	2178	1428	2150	1400
16	2331	1531	2340	1540	2318	1518	2290	1490
17	2471	1621	2480	1630	2458	1608	2430	1580
18	2611	1711	2620	1720	2598	1698	2570	1670
19	2751	1801	2760	1810	2738	1788	2710	1760
20	2891	1891	2900	1900	2878	1878	2850	1850
21	3031	1981	3040	1990	3018	1968	2990	1940
22	-	2071	-	2080	-	2058	-	2030
23	-	2161	-	2170	-	2148	-	2120
24	-	2251	-	2260	-	2238	-	2210
25	-	2341	-	2350	-	2328	-	2300
26	-	2431	-	2440	-	2418	-	2390
27	-	2521	-	2530	-	2508	-	2480
28	-	2611	-	2620	-	2598	-	2570
29	-	2701	-	2710	-	2688	-	2660
30	-	2791	-	2800	-	2778	-	2750
31	-	2881	-	2890	-	2868	-	2840
32	-	2971	-	2980	-	2958	-	2930
33	-	3061	-	3070	-	3048	-	3020

\* For gallery height only, subtract 10mm from these standard heights.

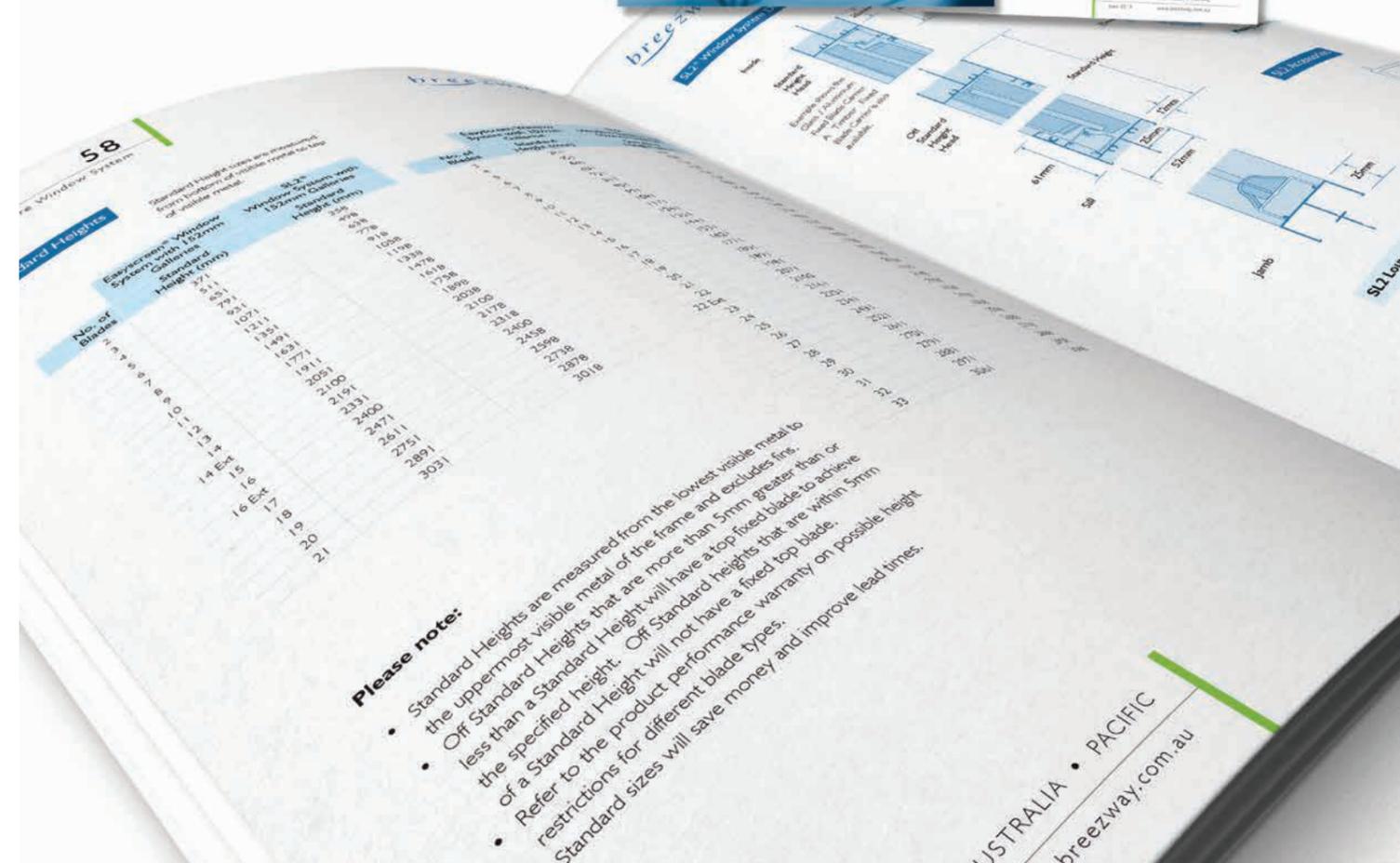
For Powerlouvre™ Standard heights

This chart indicates standard window heights corresponding to the number of full blades used in standard Breezway Louvre Window frames. For window heights differing from our standard dimensions, a fixed blade can be added to accommodate the difference.

# Design Manual

For full technical details on the Breezway Product range, request a copy of the Breezway Design Manual for your library today. Technical information includes:

- Product Performance Warranty
- Testing Standards
- Louvre Care and Maintenance
- Compliance information
- Energy Efficiency
- Window System and Component Details



**Please note:** Due to ongoing product improvements, the most updated technical information can be found at [www.breezway.com.au/products](http://www.breezway.com.au/products)



Visit [www.breezway.com.au](http://www.breezway.com.au) for more information.

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Your Breezway Louvre Window Fabricator.

