



ThermaScreen

— uPVC WINDOWS & DOORS —

BRINGING IN THE BEST OF THE NEW ZEALAND OUTDOORS



High Thermal Performance uPVC Windows & Doors
with Integrated Insect Screens



NEW BUILD

Stan and Anne-Marie - Lower Hutt

“ Stan has never seen such high-quality windows and doors in his building career. We really appreciate your great customer service and couldn't be happier with our windows!

We plan to build a garage/sleepout in a few years and will be ordering more through you. We look forward to dealing with you again.

”

REMODEL

Peter & Carolyn - Hamilton

“ We replaced our single glazed aluminium joinery in our dining room, kitchen and bathroom plus four wooden framed windows in a large bedroom with ThermaScreen. We had a good choice of designs to choose from plus they all came with built in removable insect screens.

This winter has been awesome with not having to wipe moisture from the inside of the windows and in the case of the bedroom, ice from the heavier frosts! So much warmer!! During last summer, we were able to leave the windows open at night due to the secure insect screens. We highly recommend these amazing windows.

”



BEFORE



AFTER



NEW BUILD

Patty - Waikato

“ I am very pleased with the end result. You have done right by me, and in the process done right by yourself and your business. I know that you will continue to do so should the need arise in future.

With that kind of foundation to your business and a product that's as good as we both know it is, you will do well.

”



At ThermaScreen, we feel that a home should bring warmth and comfort into your life. You should cherish and take pride in all aspects of your home, including your windows and doors. Don't let your windows become something that you only look through. They should add to the function and comfort of your home.



**ENERGY EFFICIENT PRODUCTS
AND MANUFACTURING**

ThermaScreen Windows is a proud distributor of ProVia windows and doors from America.

ProVia was founded in 1977. The ProVia goal is to continually enhance people's lives through the work they do and the products they make.

Energy efficiency is important throughout. In 2021, ProVia installed > 4400 solar panels to reduce power consumption by 60% and prevent emission of 1472 tonnes of CO2 annually.

**OUTSTANDING QUALITY &
PERFORMANCE**

ProVia windows and doors have received their 15th Energy Star Most Efficient Products Award. In addition to their high energy efficiency, ProVia windows have also received the International Hallmark Certification for outstanding weather and structural performance from the Window and Door Manufacturer's Association (WMDA).

This certification involves extensive testing, much of which isn't yet required in New Zealand.

WHY THERMASCREEN?

At ThermaScreen, we strive to provide high-performance windows and doors, with greater quality and features not previously enjoyed in New Zealand.

Due to healthy competition within the USA market, thermally efficient uPVC windows with advanced glazing and integrated insect screens became a standard offering - not an expensive upgrade.

We found the technology, economy of scale and quality assurance of the USA market to deliver everything our customers were looking for.



Window Features	Thermally Broken Aluminium Windows	Standard ThermaScreen uPVC Windows
Insulating Properties	★ ★ ★ ☆ ☆	★ ★ ★ ★ ☆
Heating Cost (Winter)	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$
Meets NZ UV Stability	✓	✓
Double Glazed *	✓	✓
Argon Filled glass *	✓	✓
Low-E Glass *	✓	✓
Integrated Insect Screens	✗	✓
Corrosion Resistant	✗	✓
Saltwater Resistant (Coastal)	✗	✓
Variety of Window Styles	✗	✓
Variety of Colours	✓	✓
High Durability	✓	✓
Price	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$

COSTLY NEW ZEALAND 'UPGRADES' ARE OUR ENTRY-LEVEL STANDARD

Lower Heating / Cooling Costs

- The entire uPVC frame is a 'thermal break'
- Argon filled, Low-E glass window coating reduces heat transfer through the glass

Less Maintenance

- uPVC is very easy to care for, never needs painting and is impervious to salt water, corrosion and boring insects

No More Insects Inside Your Home

- Every opening window within our product line comes with integrated insect screens to keep insects outside - where they belong.

* In addition to the uPVC frame, these features also contribute to improved thermal efficiency.

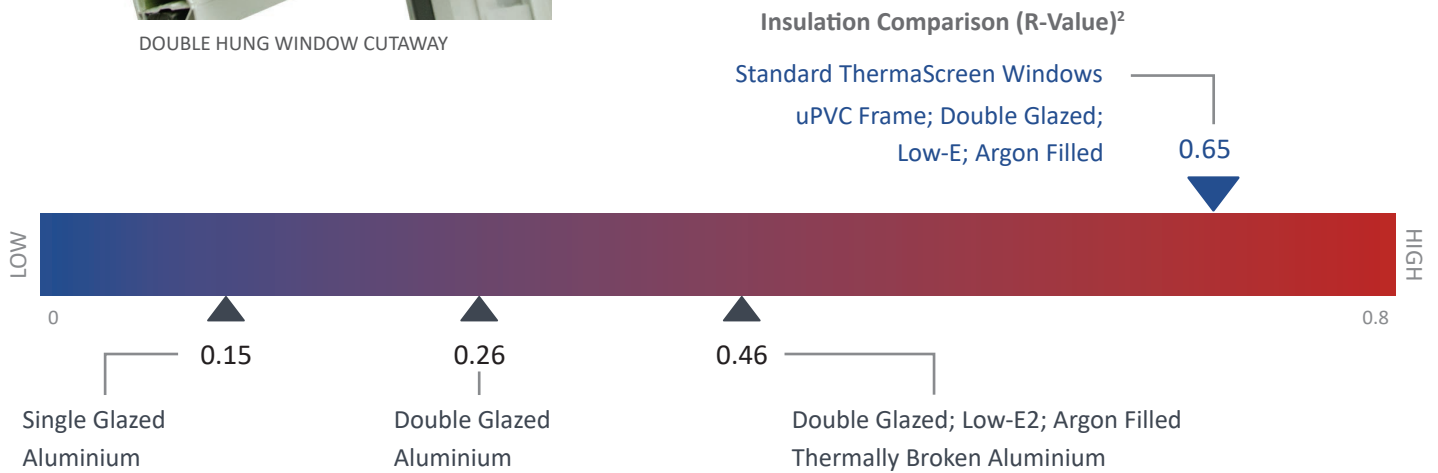
WHY uPVC?



DOUBLE HUNG WINDOW CUTAWAY

Improved insulation! No fuss. uPVC windows and patio doors are very well insulated and essentially take care of themselves. You can keep your home comfortable and looking great for years with the low-maintenance benefits of uPVC. Our formulation has also been designed and tested to meet high UV exposure requirements in New Zealand.

More importantly, uPVC is much more insulating than aluminium. uPVC transmits over 1000x LESS heat than aluminium, providing much better insulation (R-Value). The entire uPVC frame is a thermal break. This means warmer homes in winter, directly reducing heating bills. By how much? If everyone installed standard uPVC windows instead of aluminium in 2015 alone, they would have collectively saved over \$25.1 million in heating bills per winter.¹



Welded Corners Provide Added Strength

Welded corners are stronger, less prone to warping and twisting, resist deformation and prevent leakage over time.

Durability and Lower Maintenance
uPVC is a very resilient material that:

- Stands up to harsh NZ sunlight³
- Resists chemical attack
- Impervious to corrosion from salt water
- Impervious to boring insects
- Never needs to be painted⁴



uPVC WINDOW CORNER WELD

¹ Study Report SR 306 (2014), Window thermal enhancement: the development of a rating process. JC Burgess, BRANZ

² Aluminium R-Values provided in NZ54218. 2008

³ Meets WGANZ requirements for UV resistance for uPVC products

⁴ For windows without optional exterior colour options

ADDITIONAL BENEFITS

INTEGRATED INSECT SCREENS

Keep the Insects Out

Regardless of the style of window or sliding door you want, they all come with integrated insect screens. Bring in the breeze, but keep out the bugs.

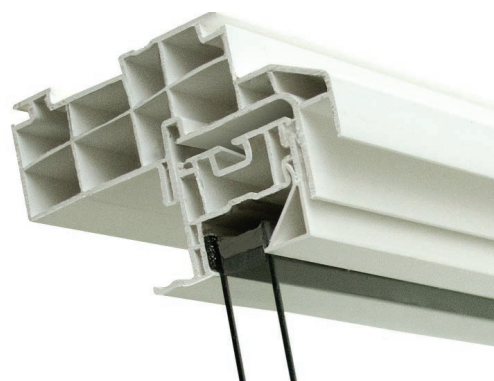
All insect screens are also removeable so they can be stored during winter months, or easily removed for washing with a garden hose.



MULTI-CHAMBERED DESIGN

Strength with Improved Thermal Performance

Multiple Chambered frames and sashes add extra layers of thermal isolation as well as increased strength compared to single chamber designs. This minimizes the need for additional bracing and can result in higher thermal performance frames.



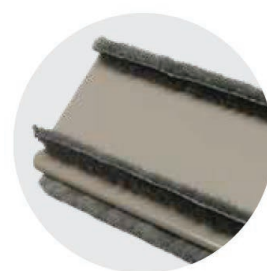
BULB SEAL AND BARRIER-FIN WEATHER-STRIP

Higher Weather Performance

Inclusion of both bulb seal and barrier fins provide protection against particles (dust), air, water, and sound. This allows for very low air infiltration and provide very high weather resistance, even for sliding windows.



BULB SEAL

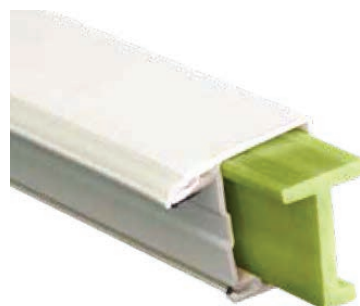


BARRIER FINS

INNERGY® THERMAL AND STRUCTURAL REINFORCEMENTS

Strength with Improved Thermal Performance

Structural reinforcements are performed by using high strength shaped material with low thermal transference. This provides extra strength without providing the thermal bridging of metal. This material has 700x LESS heat transfer compared to aluminum.



* Innergy is a registered trademark of ProVia

GLASS SELECTION

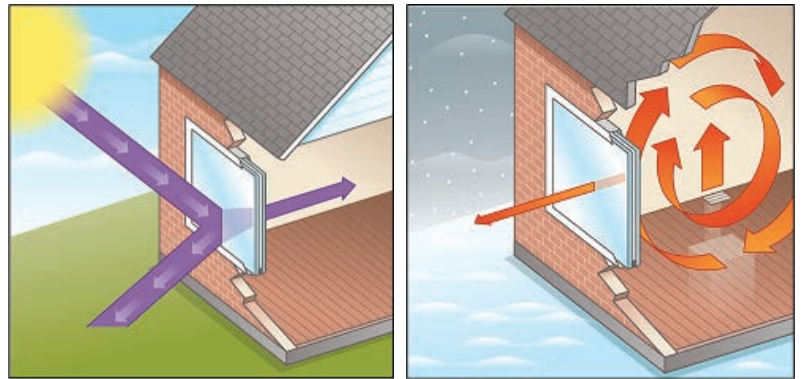
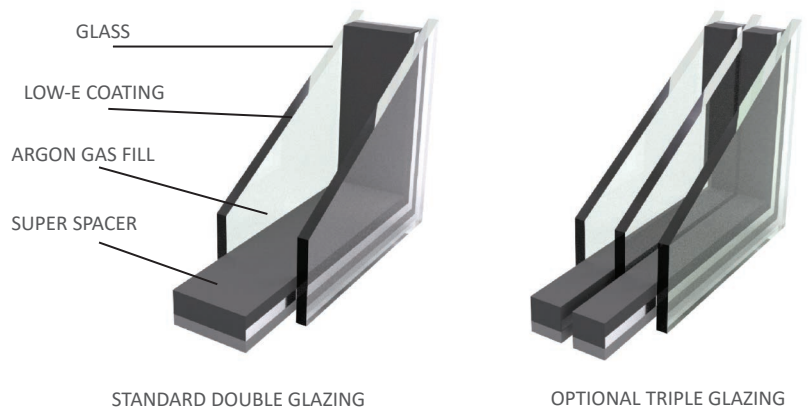
STANDARD FEATURES

Dual paned glass provides a second insulating layer to better separate inside and outside temperatures. Triple paned glass is available for even greater thermal performance.

Argon gas is a more insulating gas than air or nitrogen and provides better thermal performance.

Non-Metal Super Spacer® separates panes of glass with a thermally insulating material resulting in warm glass edges. This spacer also helps absorb sound significantly better than metal spacers.

Low-E coatings are high-tech coatings applied to the interior surfaces of double or triple glazing that reflect (not absorb like tinting) only certain frequencies of light, primarily infrared and UV light. Infrared is felt as heat, and UV is the high energy light that fades carpets and upholstery. Low-E reflects external heat in the summer to keep rooms and glass cooler, and reflects internal heat in the winter to keep rooms warmer in the winter.



OBSCURE GLASS

Obscure glass is available when privacy is desired. Different patterns provide different levels of privacy and can add to the aesthetics of a window.



DECORATIVE GLASS

Decorative glass patterns are also available to accent windows or doors and provide privacy.



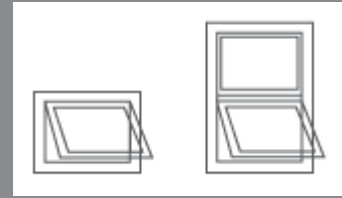
WINDOW OPENING STYLES

AWNING & CASEMENT STYLES

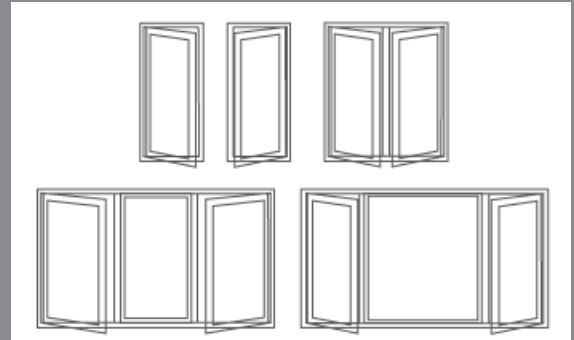
Awning – Weather resistant window that tilts out from the bottom. May be preferred for walls with no soffit.

Casement – Window that rotates vertically outward. Good for openings that are taller than they are wide.

- Smooth Openings and Closings – Our steel operating arms and hinges resist rust and corrosion.
- Convenient to Operate – Fold-away handles are unobtrusive and provides two locking points



AWNING *



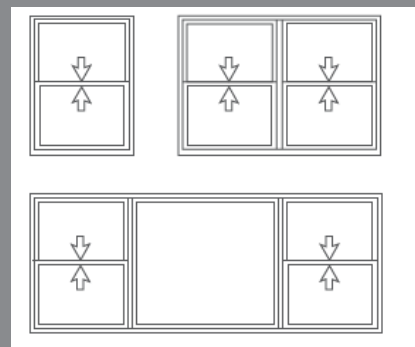
CASEMENT *

SLIDING & HUNG WINDOWS

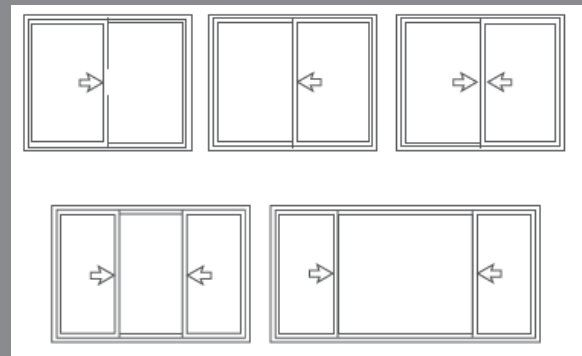
Double Hung – Window with sashes that slide vertically. Both the top and bottom sash slide independently. Good for openings that are taller than they are wide.

Sliding Window – Window with two or three sashes where sashes slide horizontally. Good for openings that are wider than they are tall.

- Years of Smooth, Easy Operation – Reliable TrueGlide Plus balance system (hung windows) offset the weight of sashes, and tandem nylon rollers (sliding windows) are extra durable and ensure smooth opening and closing
- A Tighter Seal Against the Elements – Cam-action locks pull the sashes against the weather-stripping for improved performance.
- Innergy[®] Thermal Reinforcements use energy efficient materials for structural reinforcement that are 700x more energy efficient than aluminium structural reinforcements.



DOUBLE HUNG *



SLIDING *

NEARLY UNLIMITED COMBINATIONS

Mulls– Windows of different styles can be combined (called mulling) to form nearly any combination.

- This example includes three casement windows with Blinds Between the Glass side by side, and three equal Awning windows above with Obscure Glass, all with a wood grain interior wrapped finish.



Exterior

Interior

SLIDING PATIO DOORS

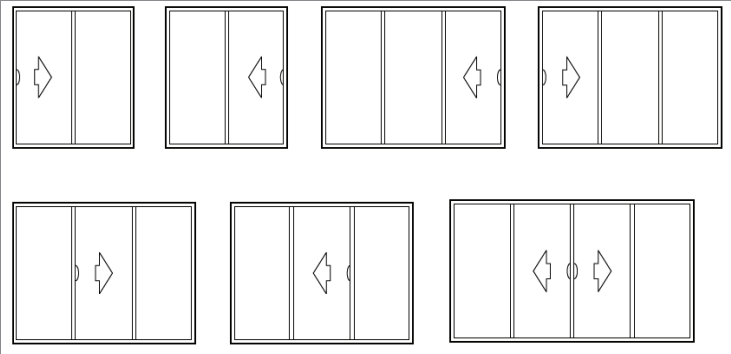
Opening panels slide on a track without opening inward or outward to prevent disturbing furniture or walkways.

Blinds, Grilles, or Shades Between The Glass – Permanent sealing between panes of low-E insulating glass protect from dust and damage.

Extra Security – Heavy duty hardware which includes a multipoint lock that secures the door in two places.

Top Hung Screens - Extended reliable functionality by placing rollers well away from dirt and pet hair

Adjustable Security Venting / Locking - Allows sliding panels to be locked in variable partially open positions, providing both security and ventilation.



COMMON SLIDING DOOR CONFIGURATIONS *



2-PANEL SLIDING DOOR



4-PANEL SLIDING DOOR



ADJUSTABLE SECURITY VENTING / LOCKING



INTERIOR VIEW OF OPTIONAL BLIND BETWEEN GLASS OPERATORS

* Options shown are examples and not the full extent of window combinations. Inquire for additional possibilities.

COLOUR OPTIONS

SOLID FRAME COLOURS

- Most economical
- All material is the same colour - Scratches are less apparent
- Lowest maintenance



FOIL WRAPPED EXTERIOR

- Aluminium wrap with smooth, mar resistant finish
- Allows for different colours on interior / exterior
- Low maintenance



WOOD GRAIN INTERIOR LAMINATE

- Realistic wood aesthetic interior laminate
- Allows for different colours on interior / exterior
- Low maintenance



uPVC Colours

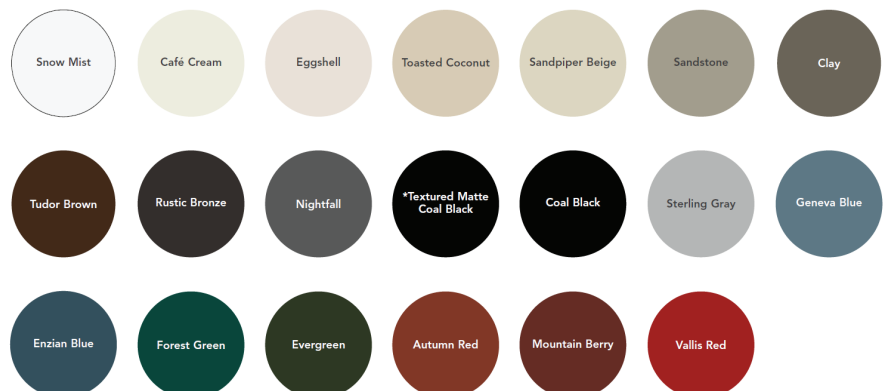


uPVC Colours



PAINTED EXTERIOR COLOURS

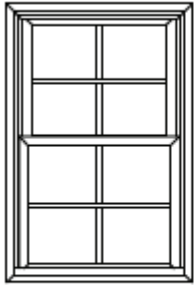
- More versatile colour selection
- Allows for different colours on interior / exterior
- Deep scratches through the paint can show the base colour
- High durability paint for less frequent repainting



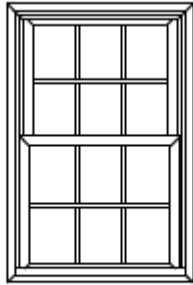
ADDITIONAL OPTIONS

GRILLES

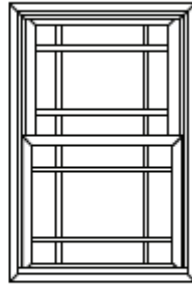
Customize your windows with Grilles Between the Glass, or Simulated Divided Light Grilles. Available in a variety of styles (custom available) and contours.



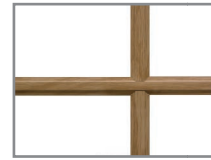
COTTAGE



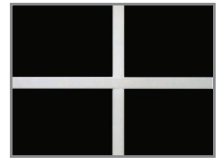
COLONIAL



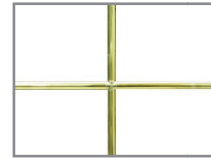
PRARIE



INTERNAL GRID -
CONTOURED



INTERNAL GRID -
FLAT



INTERNAL GRID -
PENCIL

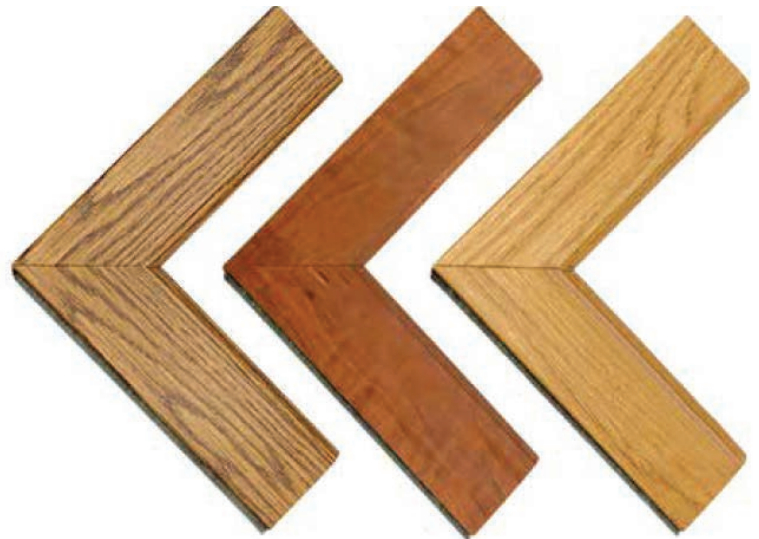


INTERNAL/EXTERNAL -
SIMULATED DIVIDED
LIGHT (SDL)

FINELINE CORNERS

The corners of uPVC windows are welded together. This provides a very strong union that is completely weather-tight. Standard corners are trimmed to provide a clean finish.

Our optional FineLine internal corners have an additional treatment that provides an even cleaner finish for refined mitred corners. These are standard with our wood-grain interior finishes and painted exterior finishes.



FINELINE CORNERS ON WOOD LAMINATE INTERIORS

HARDWARE

White, Beige, or Sandstone windows come standard with matching hardware. Laminated wood colours come standard with coppertone hardware. All finishes are available in both sliding and casement / awning hardware.

HUNG AND SLIDING WINDOW LOCKS



WHITE



BEIGE



SANDSTONE



Black



FLAT BRONZE



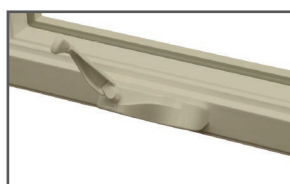
ANTIQUÉ BRASS



SATIN NICKEL



AWNING HANDLE-
CLOSED



AWNING HANDLE-
OPEN



ThermaScreen

— uPVC WINDOWS & DOORS —

LET IN THE BREEZE, NOT THE BUGS
REDUCE HEATING & COOLING BILLS
GET MORE VALUE FOR YOUR MONEY

Other Companies 'Upgrades' Are Our Standard:

- Thermal Break
- Insect Screens
- Double Paned Glass
- Low-E Glass Coating
- Argon Filled Glass Cavity
- Ease of Maintenance / Durability
- Impervious to Corrosion
- Multiple Opening Styles

Want to learn more? Visit us at www.ThermaScreen.co.nz or call 07 949 8788.



ThermaScreen
— uPVC WINDOWS & DOORS —



WINDOW & DOOR
MANUFACTURERS ASSOCIATION

WDMA