

**Sharing your vision**

Warmer, Safer,  
Quieter

New Zealand homeowners seeking high quality uPVC window and door solutions. Altus seek to deliver the best solution for your home.

#### Specialist solutions to withstand the elements

Altus use a range of high quality local and European components to ensure you get the best thermal insulation, noise insulation and security. You can be confident that our solutions will be able to handle the toughest Kiwi conditions.

#### No compromise on quality

Altus are committed to delivering on the durability and performance of our solutions. We ensure this by building strong relationships with our customers, our suppliers and the builders and architects we work alongside.

#### Why uPVC?

Polyvinyl chloride (PVC) is one of the oldest developed plastics and has been used extensively in building products since the 1950's. The big advantages of using uPVC (unplasticised, rigid PVC) as a window material are:

- High thermal resistance
- High mechanical stability
- Abrasion resistance
- High resistance to fire, chemicals and weathering
- High UV resistance
- Non-toxic
- Oxidation resistant

These properties give rise to the main advantages of uPVC, and are the reason why over 60% of European homes have uPVC windows and doors.

#### Ecological Advantages

- uPVC windows are long-lasting and built to withstand demanding climatic conditions.
- Weathering and Aging Resistant – uPVC windows have easy-care dimensionally stable surfaces, even in extreme weather conditions. Enhanced formulas increase resistance to sunlight and heat. Stabilisers are lead-free and harmless to the environment.
- Harmless to Health and the Environment – uPVC profiles are not composed of chemicals considered harmful to the environment, do not emit any gases, are easy to clean, hygienic and non-porous.
- Recycled Material – Recycled uPVC material forms core elements of the uPVC window frame. Conserving resources and reducing environmental impact.
- No Deforestation – the manufacture of uPVC frames does not contribute to deforestation or habitat destruction.

#### Economic Advantages

- Energy Efficiency – R-value is the measure of thermal resistance used in the building and construction industry and is measured in  $m^2 \text{ deg C/W}$ . The bigger the number, the better the insulation is. With the combination of the uPVC material and multiple chambers in the profile extrusion, the uPVC window frame of today compares favourably with most other systems on the market. In times of global warming and scarcer natural resources, this translates to savings in both heating and cooling costs.
- Good Value for Money – if the whole of life cost, including the energy savings, are taken into consideration, uPVC windows represent a very sound investment.
- Low Maintenance – minimum maintenance is required to keep the hardware in good working order. Cleaning is easy and windows do not require re-painting.
- Increase in Property Value – uPVC windows will enhance any renovation or new home.
- Healthier Homes - warmer, drier homes are healthier to live in, meaning less sick days and lower medical bills.



New Zealand's first  
10 Homestar™  
rated home.

## Our uPVC Window and Door Systems

Aluplast GmbH based in Karlsruhe, Germany for uPVC profile systems. Aluplast are one of the top German uPVC profile suppliers globally and they are known for their innovation, flexibility and support. Altus connected with their values, care for their people and the environment. Aluplast have a wide range of window and door solutions that we can access. The New Zealand market mainly use the Ideal 4000 series of profiles.

Product feature	Benefit
5-chamber 70mm extrusion (R <sub>f</sub> Value of 0.77 m <sup>2</sup> deg C/W)	High thermal insulation. Under normal conditions; no condensation on the frame
Glazing thickness from 24mm to 36mm, with thermal spacers and a minimum 16mm air gap	Reduction in heat loss and condensation within your home
Wind resistance complies with NZS 4211:2008. Up to Extra High rating	Provides peace of mind in the toughest environments
Sound reduction of up to 45 dB (DIN EN ISO 140-3:2005)	Reduces noise from the outside environment to below the level of a normal conversation
Continuous groove co-extruded twin seals in both the frame and sash	Improved thermal and acoustic insulation and weather tightness
Internally glazed. Additional hardware options can further improve security up to DIN EN 1627 RC3	Glass cannot be externally removed, preventing unwanted intrusion
External moisture drainage	Reduce risk of damage to internal materials contributes to healthy homes
Supports a wide range of uPVC window hardware	A comprehensive range of opening and security options
High UV resistance. Tested to EN12608 and EN 513 to withstand the severe New Zealand climate	No degradation, deformation or fading of the frame
Uses recycled material in the internal chambers	Environmentally friendly
Fire resistant to DIN EN 13501-1 Class E	Self-extinguishing. Doesn't cause flaming drops
A range of colours are available including the ability to colour only single sided	A range of colours and textures to suit your design needs
Welded joints	Extra strength and weather tightness. No visible fasteners on external faces.



## Our Components

A great window is about more than the frame, the glass is a key component. At Altus our fabrication network only use reputable suppliers of glass with New Zealand certification. Our glass suppliers exhibit a high degree of responsiveness and demonstrate a track record of innovation enabling us to offer:

- A full range of glass solutions that comply with NZS 4223:Part 3:1999, including both double and triple glazed options.
- Premium warm edge spacers as standard, offering greater thermal insulation.
- A range of Low Emissivity (Low E) and Argon gas filled glass options that deliver 60-70% improvements in thermal performance.
- A range of glass options that offer improved sound insulation, fade protection, privacy, security and solar heat blocking.

Hardware is another key component in a great window. We use quality hardware, sourced from Europe. Applications, include:

- Inwards opening tilt and turn windows and doors (Fig 1)
- Outwards opening casement and awning windows (Fig 2 & 3)
- Outwards and inwards opening entrance doors (Fig 4)
- A range of sliding door options including multi-slide (stacker) and lift and slide.



(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)

## Our uPVC Windows

We offer four main window types; Fixed Windows, Tilt and Turn Windows, Awning Windows and Casement Windows. Our windows can be customised to suit your house design and style. For renovation projects we can either match existing window styles, or many clients take the opportunity to re-think their window configurations. For new projects there is the opportunity for us to be involved early in the design process to ensure you get maximum benefits from the flexibility uPVC window systems offer.



Inwards Tilt and Turn



Outwards Awning



Outwards Casement

## Our uPVC Doors

We offer three main door types; Entrance Doors, French Doors and Sliding Doors. They can all be customised to suit your house design and style. Sliding doors come in two main types; Multi Slide (Stacker) and Lift and Slide.



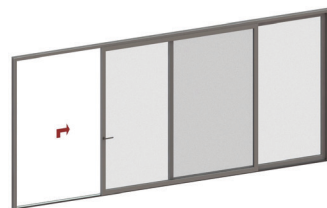
Entrance



French



Multi Slide (Stacker)



Lift and Slide

## Installation and Service

Our fabricators have been manufacturing window and door joinery in residential renovations and new homes for over 50 years. Altus will support builders and architects to ensure the process runs smoothly from start to finish. You can be sure that you will get the perfect fit.

If you're replacing windows in an existing home we are able to either reuse existing timber window frames, or replace them for a fresh new look.

If you're building a new home we can work with your designer and builder to achieve the best outcome. Altus are able to fit windows into all construction and cladding types.

Fitting blinds helps ensure you get the best out of your windows. We recommend Twin-Go thermal blind solutions that are specifically designed for uPVC frames.

If you're in need of a screen, we work with Homeplus to provide integrated insect and security screens.



At Altus we focus on customer service. All of our products and workmanship are backed by comprehensive warranties.



*uPVC Systems*

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