



TIMBER WINDOWS & DOORS

www.duce.com.au

IPSWICH

BRISBANE

GOLD COAST

SUNSHINE COAST

MID NORTH COAST

CAIRNS

Letter from our General Manager

Thank you for the opportunity to show you how Duce Timber Windows & Doors can meet and exceed your joinery requirements and expectations. At Duce, we have years of involvement in the creation of Australia's most prestigious and luxurious homes, taking great pride and pleasure in helping our clients bring their concepts and ideas to life.

Duce Timber Windows & Doors is a fourth generation family business specialising in the production of custom designed timber windows, timber doors and architectural timber products. The Duce story began in 1934 when founder Andrew Duce began building quality timber products from a Queensland workshop. Today, our superior product finesse, expert workmanship, and attention to detail has lead to the Duce reputation in the industry being second to none.

In a world where inferior imports, mass production and non-compliant manufacturers delivers varying levels of quality, the Duce product stands out above the rest. We pride ourselves on quality, innovation and the ability to create almost anything. Each piece is custom made by skilled craftsmen, delivering superior quality and pristine beauty. It is this level of excellence that we have continued to produce by the same family for more than 87 years.

Of course Duce Timber Windows & Doors would not have been as successful without the dedicated group of people within our organisation. We have a wealth of experience in-house, with many Duce members having been part of our team for over 10, 20 and 40 years. It is this

combination of experience and dedication that ensures our products deliver lasting impressions.

Duce is also a member of the Australian Glass & Window Association (AGWA) and follows the AGWA's strict code of ethics. These ethics ensure that your products will be built to the Australian Standards and made to withstand Australian conditions.

With over 87 years of operating experience and continuous industry strength, Duce Timber Window & Doors are at the forefront of innovative design, producing elegant custom made timber windows and doors for Australia's most luxurious homes.

Regards

Adam Duce
Director
Fourth Generation of the Duce Family Business



Adam Duce
Director
Fourth Generation



Keith Duce
Director
Third Generation

Contents

2	The Duce difference
3	Selection process
7	Australian made to Australian Standards
8	Doors
9	Pivot doors
13	Bi-fold doors
15	Sliding doors
17	Hinged doors
27	Ventwood
29	Gates
30	Windows
31	Casement windows
32	Double hung windows
33	Awning windows
34	Louvre windows
35	Sliding windows
36	Bi-fold windows
37	Sashless + Picture windows
38	Bay + Curved windows
39	Duce Guarantee
40	Australian Window Association
41	Featured Architectural Projects

See Your Inspired Design Come to Life

Spanning over four generations, Duce Timber Windows & Doors is at the forefront for design, innovation and quality. We produce the finest quality timber windows, timber doors and architectural timber products, using only superior 'A grade', selected timber. If you have a vision or an idea for an opening, we will do everything we can to turn your unique design into reality.

All our products are custom made and that means choices. You can select which timber, which glass, which hardware and it doesn't matter what type of opening you have, however large or small. We have a wealth of experience and expertise and will support you throughout the entire selection process helping you find solutions.

All our products are Australian made to Australian Standards and built to last a lifetime. The award-winning skilled craftsmen within the Duce team use state-of-the-art machinery to produce the most stunning timber windows and doors, and the experienced in-house engineer can design just about anything. We are committed and dedicated to excellence and the results are simply stunning.

Energy Efficiency and Sustainability

For most Australian homes reducing heat gain in the summer and reducing heat loss in the winter is essential. Fortunately this can be achieved through making the right choices.

Installing Duce Timber Windows & Doors is also a great way to insulate a home. This natural attribute results from air pockets within the timber's cellular structure which forms a barrier against heat and cold transition. Timbers natural insulating properties, coupled with the correct selection of glass can help to create a more comfortable home and reduce the reliance on artificial heating and cooling.

While you can reduce your footprint on the environment and your energy by installing quality made Duce timber windows and timber doors, we are doing our part to ensure a sustainable and healthy future.

We source our timber from managed, sustainable forests. This promotes sustainable timber practices along with protecting the well-being and future of our natural environment. Together with this, the manufacturing process for producing the timber doors and windows is gentle on the environment, requiring significantly less energy and resources compared to aluminium production. We are also involved in waste reduction and recycling practices and have invested in the re-planting of Australia's non-commercial vegetation.



The Selection Process

> Select Door / Window Type

> Select Design

> Select Timber

> Select Hardware

> Select Glass

> Select Screening

> Select Finish

> Select Door Type

When choosing a door, think about what is important to you and what you require. You may want to consider energy efficiency, sound reduction, ventilation, safety and security.

Where will this door be located in your home? For example, bi-folding doors are ideal for the entertainment area, or would a sliding stacking door be a better solution to save space? Or perhaps you want to go 'all French', with doors that swing open to your beautifully landscaped gardens?

> Select Window Type

There are several styles of windows and the one that is most appropriate can depend on the factors most important to you.

Consider the amount of space available for the window and it's location in the home. What is the wind classification of your home? - Ask your builder or council. What level of security do you require? All our windows are fitted with key fasteners as standard and we can screen any style of window or door.

How do you want your window to operate – manually sliding up or down, left or right, or mechanically wind out? For example, louvre windows, or double hung windows may be ideal for your bathroom or kitchen, or you may choose bi-fold windows ideal for a kitchen servery, breakfast bar or entertainment area.

Do you require maximum ventilation or do you want to open your windows during inclement weather without bringing it inside? You may be concerned about which window looks best on the outside when opened. You may also want to consider the 2013 Child Safety Laws on restricted openings - our consultants are happy to assist with these requirements.

> Select Design

You can choose from the most popular of our designs, or if you are feeling really inspired why not just design your own? There isn't anything that we can't do. Give us your idea in any form you like, and we will make it a reality.

> Select Timber

Choose from stock timbers inc; New Guinea Rosewood, Surian Red Cedar, Amoorra, Kwila or Western Red Cedar. Or you can request timber types providing they are durable and available such as Australian timbers Spotted Gum & Jarrah and 'good wood' sourced from an environmentally friendly and socially beneficial scheme such as Eco timber.



New Guinea Rosewood

Colour: Ranges from creamy golden brown to reddish brown to deep red.

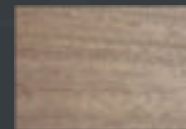
Durability: Class 1 | Janka Hardness: 5



Surian Red Cedar

Colour: Varies from light red to dark red.

Durability: Class 2 | Janka Hardness: 2



Amoorra

Colour: Pink brown to red brown or in rare instances brick red.

Durability: Class 3 | Janka Hardness: 7



Kwila / Merbau

Colour: Pinkish to deep reddish brown.

Durability: Class 1 | Janka Hardness: 7.2



Western Red Cedar

Colour: Varies from pale straw, yellow to light brown, to pinkish /dark brown.

Durability: Class 2 | Janka Hardness: 2



Accoya

Colour: Varies from pale blonde to light brown.

Durability: Class 1 | Janka Hardness: 4.1 - 6.6



Spotted Gum

Colour: Varied colour tones with pale light to brown.

Durability: Class 2 | Janka Hardness: 11

> Select Hardware

Your hardware selection is an important part of the appearance and functionality of your timber doors and windows. When it comes to hardware, particularly handles, we understand that everyone has a different taste, and that's why we offer you the choice from a range of quality products. However, if you don't have a style in mind our experienced Design Consultants can showcase a range of options and can assist with making the best selection for your doors or windows.

> Select Glass

Selecting the correct glass for your doors and windows is important. The right glass can improve the appearance, thermal performance, comfort and the overall energy efficiency of your home.

For most homes reducing heat gain is essential and you can achieve this without compromising daylight, comfort or energy efficiency by selecting the correct glass.

Our consultants can help you to choose the best and most cost effective glass for your particular application or your energy certifier will nominate the performance requirement for the whole of house by specifying the SHGC (Solar Heat Gain Coefficient) and UV (U Value) to meet the relevant Australian council building requirement.

Our products are glazed to comply with Australian Standard 1288/2006 as required by the BCA (Building Code of Australia). Different glasses offer a variety of benefits such as safety, reducing heat and/or glare, blocking UV radiation, transmitting visible light, insulation benefits and there is even a self-cleaning glass available.

Detailed below are some of the common glass options available. When it comes to selecting your glass, talk to us about your particular needs and we will help you to make the best selection.



Clear and Tinted Float Glass

The float glass process is the most common method of flat glass production in the world. Clear float glass is colourless and transparent when viewed face on. When viewed on edge, it displays a slight green tinge. Clear float glass offers a very high level of natural daylight or visible light transmittance to pass through it. Tinted float glass is produced by adding colourant during a clear float production run.

The most common colours are grey, bronze, green and blue. Float glass can be supplied from 4mm to 25mm thick.

Toughened Glass

Toughened glass is a type of safety glass processed by controlled thermal treatments to increase the glass strength. Tempering creates balanced internal stresses that increases its strength by 4–5 times compared to that of regular glass of equal thickness. When broken, it crumbles into small granular chunks instead of splintering into jagged shards. The granular chunks are less likely to cause injury.

more glass options over page...

Laminated Glass

Laminated glass is a safety glass produced by placing a flexible plastic interlayer between two or more sheets of glass. The interlayer keeps the layers of glass bonded even when broken, and its high strength prevents the glass from breaking up into large sharp pieces.

The interlayer of laminated glass is available as a clear film or the appearance of the glass can be altered with a variety of different colours and designs.

Thicker laminated glass, such as VLam Hush, is suited for sound reduction applications.



Double Glazed Units

Double glazed units or insulated glass units (IGU's) are an energy efficient glazing system, controlling heat loss and heat gain better than single glazed applications. Double glazed units consist of two or more layers of glass separated by a void normally filled by air or argon gas. The combination of airspace and glass panes act as an additional barrier, making the transfer of heat by convection, conduction and radiation more difficult.

Double glazed units are also well suited to applications where sound reduction is required. The air barrier that reduces heat transfer also limits the transfer of sound waves.

Speciality Glasses

Low E - Low E glass is a low rate of emission glass that has a special metal coating applied to the surface of the glass. This coating offers a lower rate of emission over clear float glass, increasing the energy efficiency of windows by reducing the transfer of heat or cold through glass. The end result is a reduction in heat loss over winter and a reduction in heat gain over summer.

Patterned - Patterned glass involves embossing a pattern into the glass during manufacture. The pattern is embossed by passing the semi molten glass through a set of rollers prior to setting. One side of the glass remains smooth, while the other side is embossed with the selected pattern.

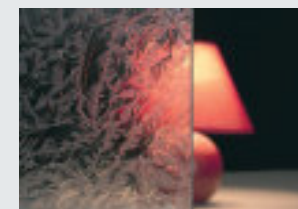
Acid Etched & Sand-blasted - Sand-blasted and acid-etched glass are types of float glass that have undergone post-production chemical or physical treatments to alter their appearance. These decorative glasses are often selected for their frosted pattern appearance.

Other glass options - There are a number of other unique glass options available. These include self cleaning glass, security glass, screen printed glass and coloured glass that comes in multiple vibrant colours.

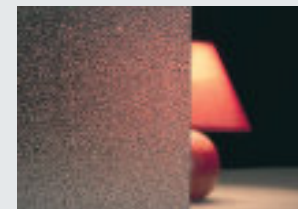
Some of the speciality glasses available... talk to us for more options



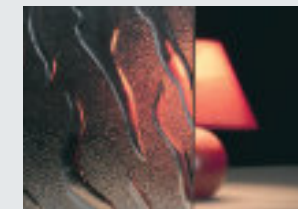
Squarelite Wired



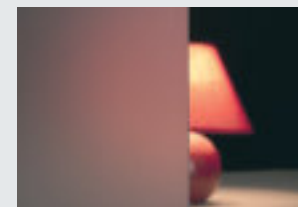
Gluechip



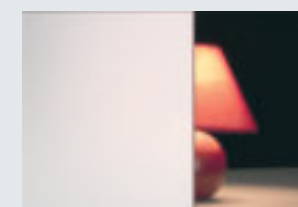
Sparkle



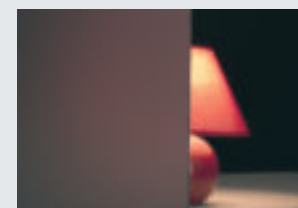
Desert Sand



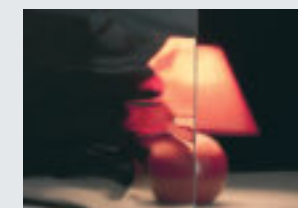
Acid Etched



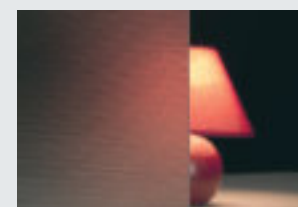
White Translucent



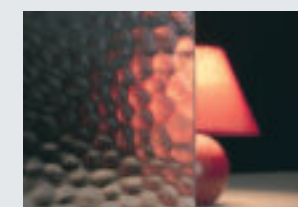
Grey Acid Etched



Flemish



Satinlite

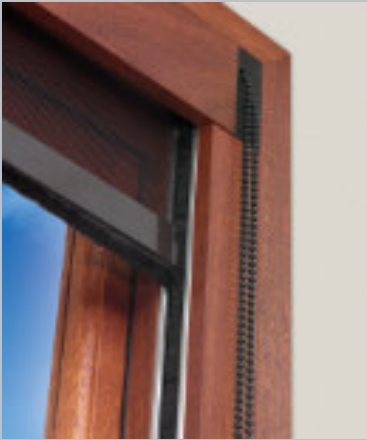


Cathedral

> Select Screen

We can provide screening options for almost all of our products, including bi-fold windows and doors. Screens are available in standard fly wire mesh, stainless steel fly wire mesh, and SupaScreen mesh.

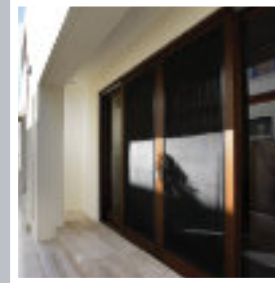
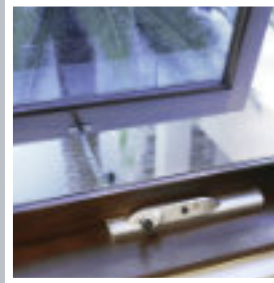
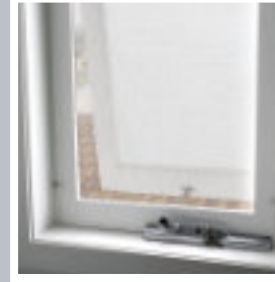
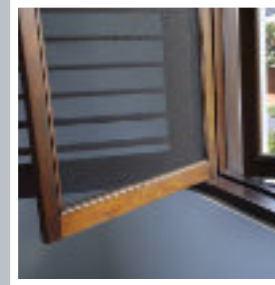
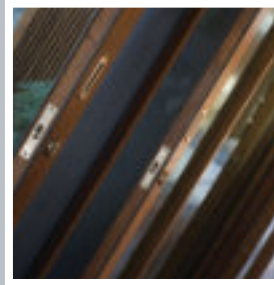
Screening for doors, windows and gates are custom made to your specifications. For an unobtrusive screening option, door openings as wide as 7.6m can be effectively screened with retractable screens. This type of screen completely retracts into the doorjamb when not in use. The mesh is sheer, and there are no grills or horizontal bars to detract from the view. The screen is barely noticeable when in use, and disappears when you don't need it.



Retractable screens are also available for windows, with the screen housed at the top of the window frame. Operation is easy, unwinding smoothly when required and retracting back to the top when not.

Not sure how to screen your opening? Talk to one of our Design Consultants for expert advice on the most effective screening solution.

*Left: Retractable screening solution for windows
Far right: Retractable screening solution for doors*



> Select Finish

As timber is a natural product it needs to be sealed to protect it from the environment. This ideally needs to be done within 24 hours of delivery. A quality finish, from leading timber finishing brands such as Sikken, Intergrain, Cabot, Dulux etc. is recommended to enhance and protect your timber window and door investment.

As a service to our clients we can apply the first coat of finish in our factory, requiring only two additional coats once delivered. Following the recommended procedures for finishing and maintenance will ensure your timber windows and doors provide you with years of lasting beauty.





Australian Made, to Australian Standards

At Duce Timber Windows & Doors we custom make each order to ensure every product meets your vision and our stringent standards. To ensure this continuous level of excellence all our products are Australian made and produced in our Queensland base production facility.

Our windows and doors are all certified to the Australian Glazing Standard AS1288 for your safety. It is our policy to certify all windows and doors to suit water penetration resistance and structural requirement of Australian Standard AS2047. Products that

have passed strict NATA testing requirements prove our high quality construction methods and weather sealing systems effectively exclude wind and rain.

Our products are proudly supported by the Duce Guarantee (view our warranty documentation at www.duce.com.au) to provide peace of mind for you, your architect and your builder.





Doors

Nothing enriches the appearance of a home more than beautifully crafted Duce timber doors. Our entire range of timber doors are custom made, allowing for endless choices in style, design and sizing. The types of doors we produce include:

- > Pivot Doors
- > Bi-fold Doors
- > Sliding Doors
- > Hinged (Entry and Internal) Doors
- > French Doors

Together with their timeless beauty, the inclusion of timber doors can also have a significant impact on the energy efficiency and comfort of your home. For a typically insulated house, the doors and windows provide the greatest opportunity for heat gain or loss. Choosing timber doors, coupled with the right glass is a simple way of improving the comfort of your home, while at the same time saving real money on your energy bill and reducing the green house gas emissions.

All of our doors are certified to the Australian Glazing Standard AS1288 for your safety. It is our policy to certify all windows to suit water penetration resistance and structural requirement of Australian Standard AS2047.

FULLY CUSTOM MADE

Pivot Doors

Pivot doors are a popular modern alternative to a hinged door. Pivot bearings replace conventional hinges to open up new and exciting design possibilities.

With self-closing and hold open functions these top quality pivots can handle the weight of an impressive over-sized door with ease and safety.

Key Features

- > Large door sizing
- > Self-closing option
- > Auto-locking option
- > Limitless design options

> Sizing

Pivot doors can be custom made to suit a wide range of openings. The maximum door sizes are as follows:

Maximum size with self-closer

2400mm x 1800mm
2700mm x 1500mm
3000mm x 1200mm

Maximum size without self-closer

2400mm x 1200mm

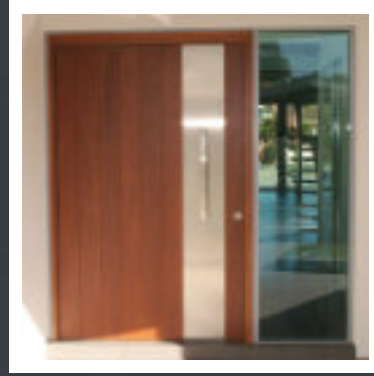
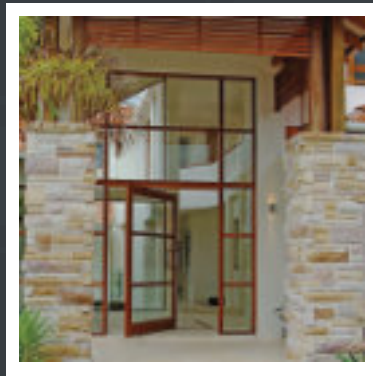
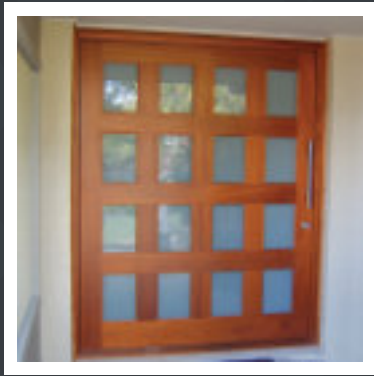
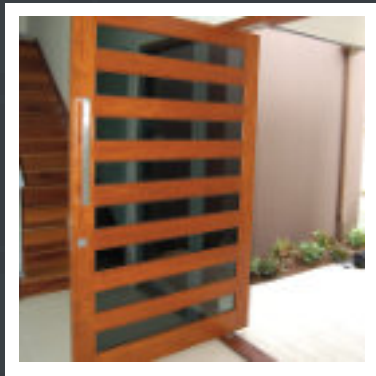
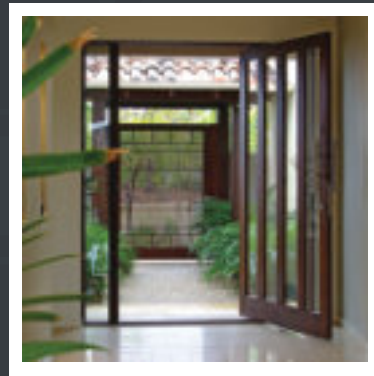
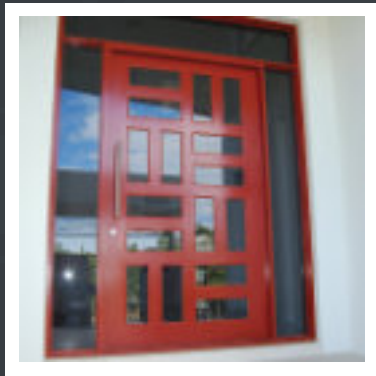
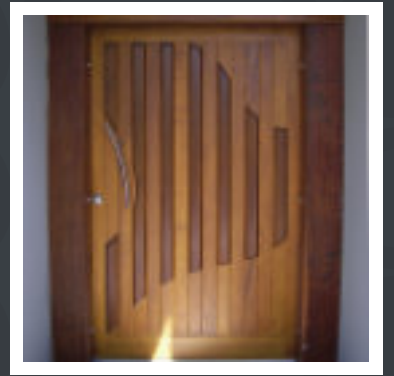
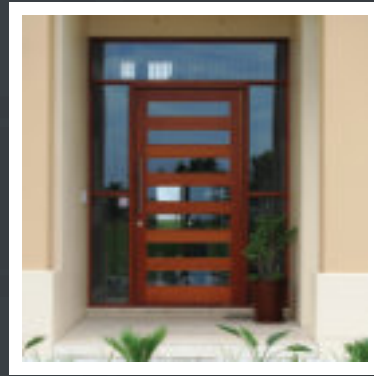
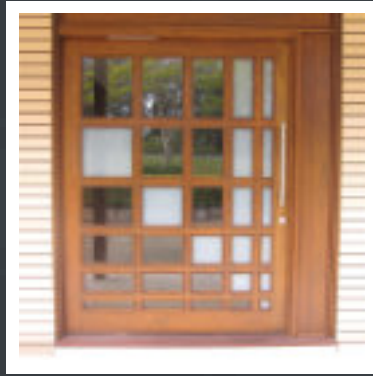
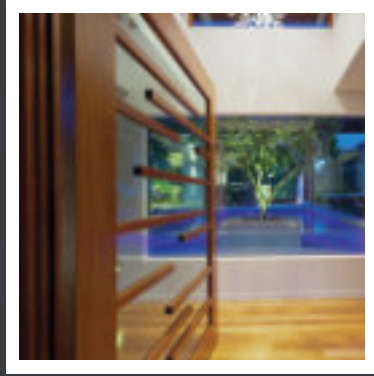
> Screening

Unlike hinged doors, the design and operation of a pivot door does not allow for it to be fitted with a screen door or retractable screen option. However, if screening of a pivot door is required consider a screened entrance area. Talk to us to find out more on this option.

> Framing

The design of the frame surrounding a pivot door is potentially endless. Doors can be framed with no side lights, or can feature a single side light all the way through to a full arched entrance. The below illustrate just some of the options available, or why not design your own.



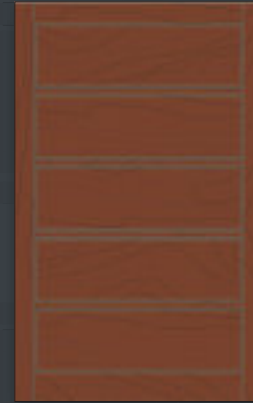


Pivot Door Designs

Choose from our range of architecturally inspired pivot door designs, or if you are dreaming of a particular door to suit your unique style and imagination, why not create your own design.



DUCE 65H



DUCE 65T



DUCE 63V



DUCE 63VJH



DUCE 66H



DUCE 64H



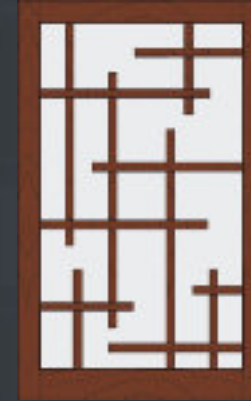
DUCE 66MA



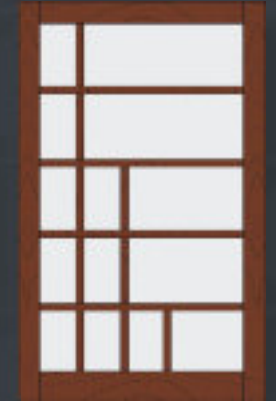
DUCE 65MA



DUCE 61VJH



DUCE CCRTR



DUCE CC1HVR



DUCE 65DA



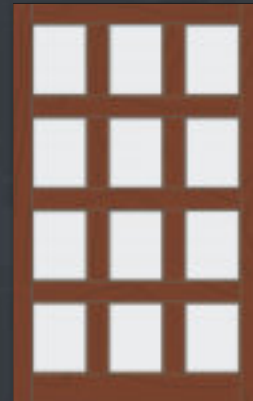
DUCE 64V



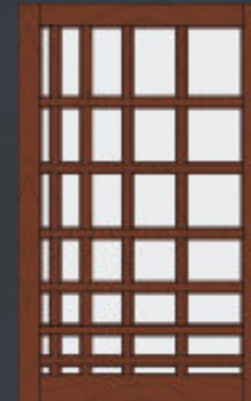
DUCE CC1HT



DUCE 66MC*



DUCE 7312L



DUCE HS35L



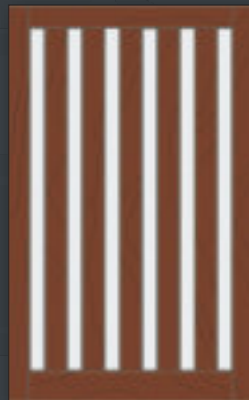
DUCE 7PSS



DUCE 611L



DUCE 64W



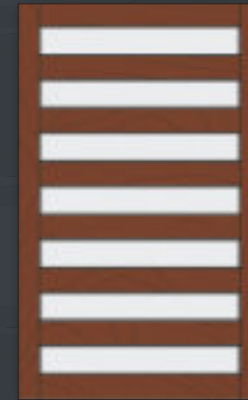
DUCE 66V



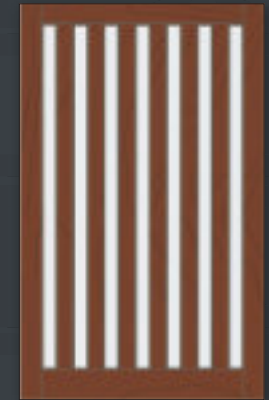
DUCE 67HV



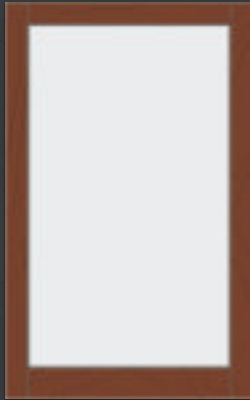
DUCE 69MC



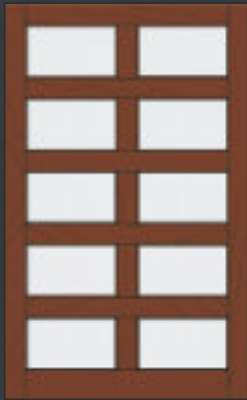
DUCE 67H



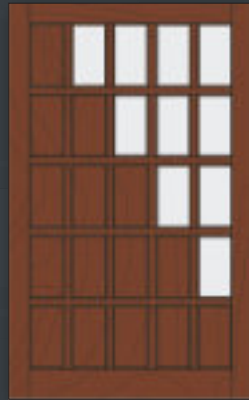
DUCE 67V



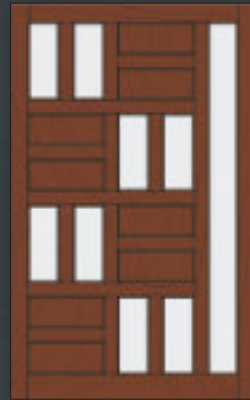
DUCE 1



DUCE 7210L



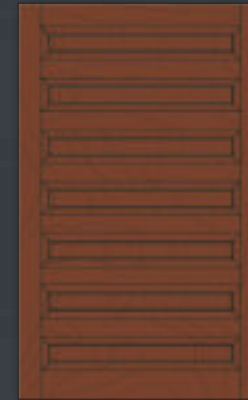
DUCE 9525



DUCE 9417



DUCE 90SSM



DUCE 87T



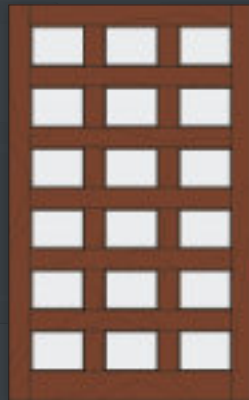
DUCE 93



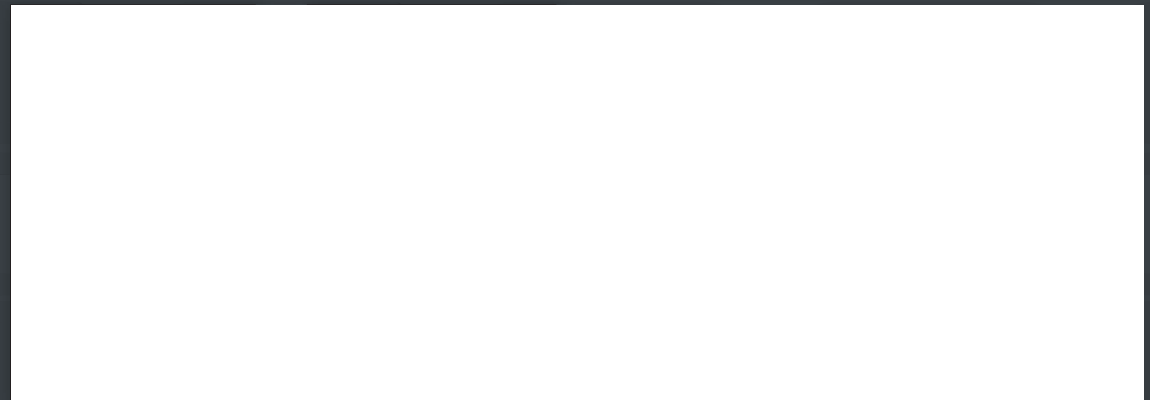
DUCE 94



DUCE 92



DUCE 73



All our doors are custom made, so if can't see a design you are looking for then why not design your own?

Bi-fold Doors

Bi-fold doors have revolutionised the face of modern designs and renovation projects by providing an elegant and effortless way to open and extend the home. Able to achieve extremely large widths of up to 16 metres, the bi-fold system allows for the doors panels to be folded away to the edge of the opening, bringing the outdoors in and extending the living areas into the surrounding environment.

Key Features

- > Suitable for very large openings
- > Smooth and simple operation
- > Option to fit with single access panel
- > Suitable for corner and curved openings
- > Optional: Screen, blind, louvers and shutters

> Sizing

Our bi-fold doors are fully custom made and can be designed to suit a wide range of opening sizes. Detailed below are the maximum door sizes for a bi-fold system.

Minimum door panels:	2
Maximum door panels:	16 (8 left and 8 right)
Maximum door panels height:	4000mm
Maximum door panels width:	1100mm

> Configuration

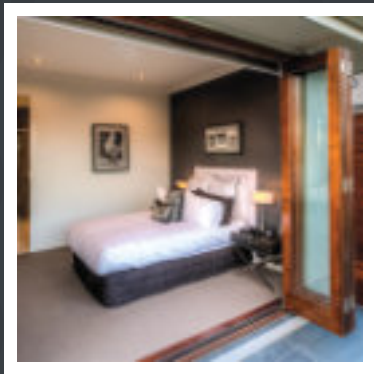
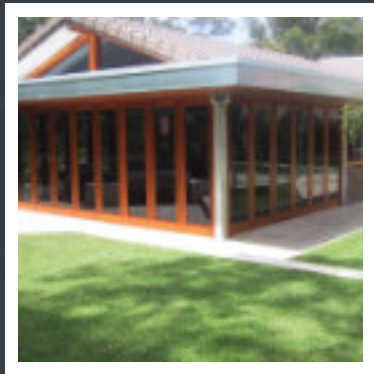
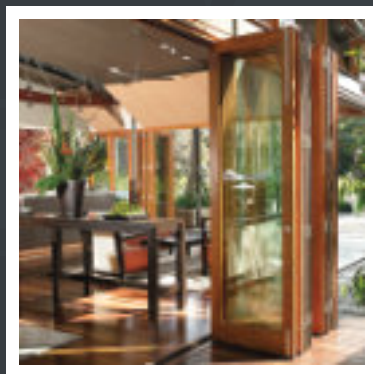
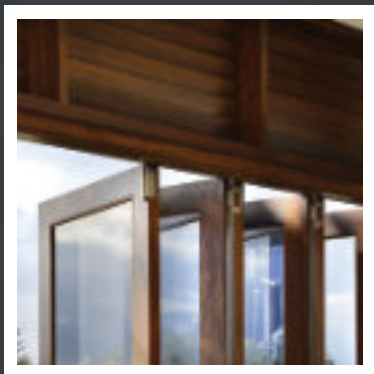
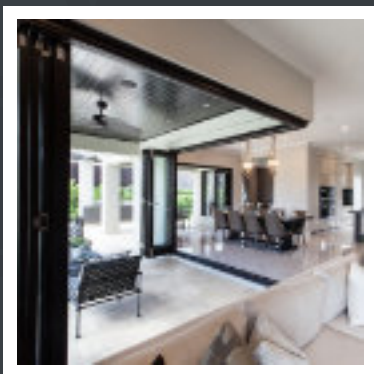
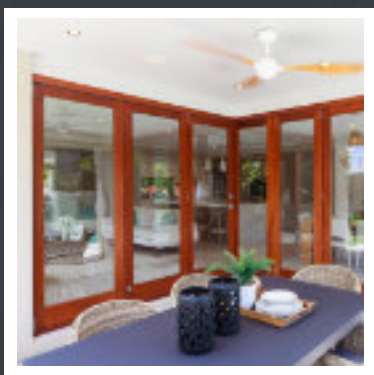
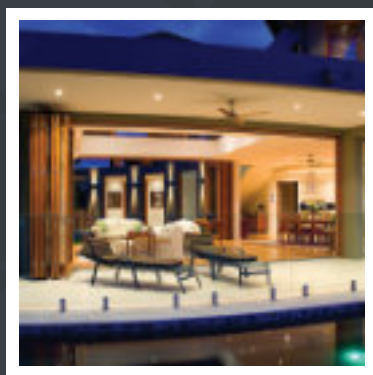
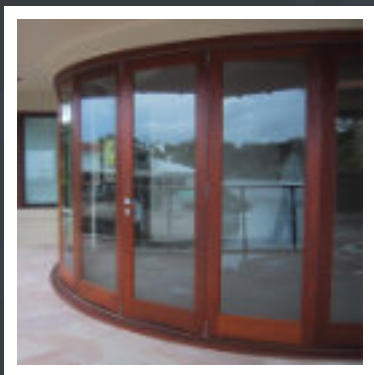
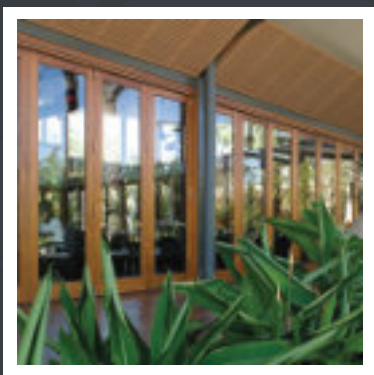
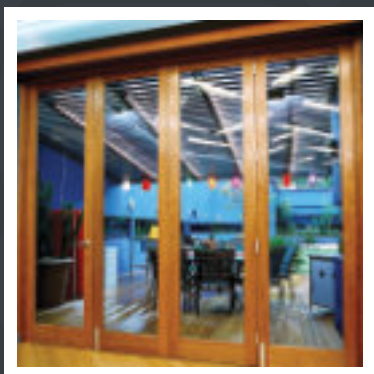
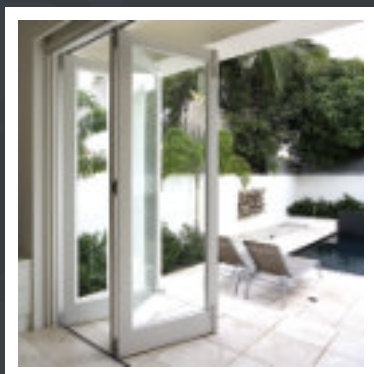
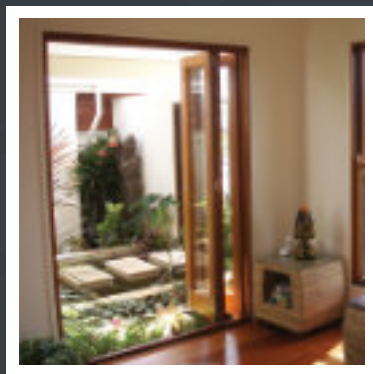
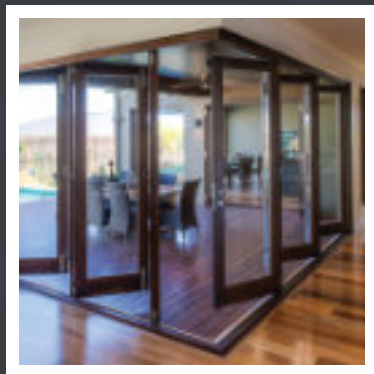
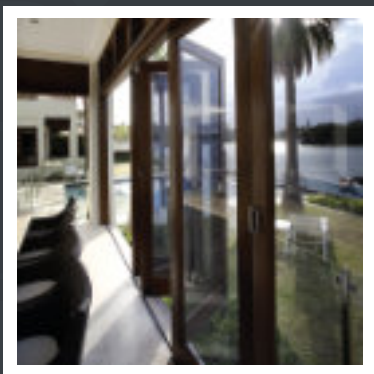
Detailed below are some suggested configurations. When selecting a configuration, consider whether external access is necessary.

2L		2R	
2L1R		1L2R	
3L		3R	
3L1R		1L2R	
4L		2L2R	
4L1R		1L4R	
3L2R		4R	
5L		2L3R	
3L3R		5R	
7L		3L4R	
4L3R		7R	
5L2R		2L5R	
5L3R		8R	

Can't see the configuration you are looking for, then why not design your own? We custom make every item, providing endless design, configuration and sizing options.

> Screening

Bi-fold doors can be effectively screened with retractable screening solutions (excluding curved bi-fold doors). For details on this option, please refer to the Screening section of our Selection Process guide on page 6.



Sliding Doors

Sliding doors are an excellent solution for medium to large openings and are a great alternative to bi-fold doors. Sliding doors can take many forms from a simple standard sliding door unit, to a multi stacking set that opens up an entire wall or corner, or a system that can even slide inside a cavity to disappear altogether.

Utilising a heavy duty track system, large doors can be used to showcase panoramic views from the comfort of your living room. Sliding doors have potentially limitless sizing, yet they glide open and close with surprising ease. Matching timber flyscreen and SupaScreen doors are also available.

Key Features

- > Large door panel sizing
- > Suits over-sized openings
- > Option to screen with SupaScreen mesh
- > Can achieve 100% opening with on-wall sliding doors
- > Effective solution for corner openings

> Sizing

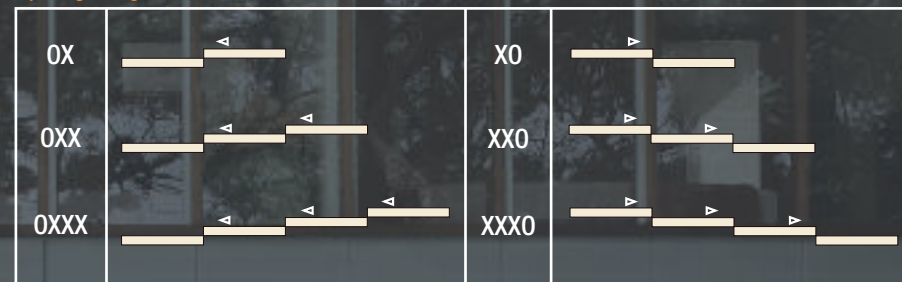
Sliding doors can be made to suit almost any opening. They have a potentially limitless maximum size, and are restrained only by the size of the building, the limitations of the glass and deflection rating of the door panels.

Recommended minimum opening width: 1500mm (door panel width 774mm)

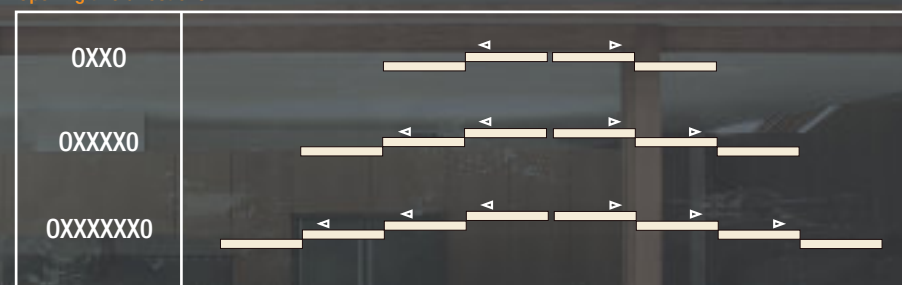
> Configuration

Configuration options for sliding doors can be broken down by the direction the operable doors move; opening to the right, opening to the left and opening both directions. Some common configurations are:

Opening a single direction



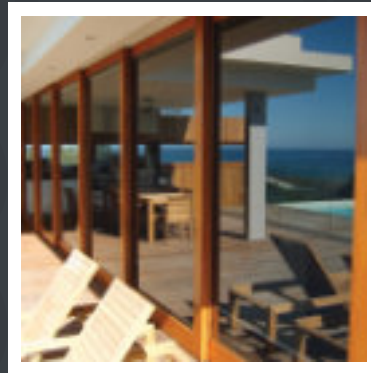
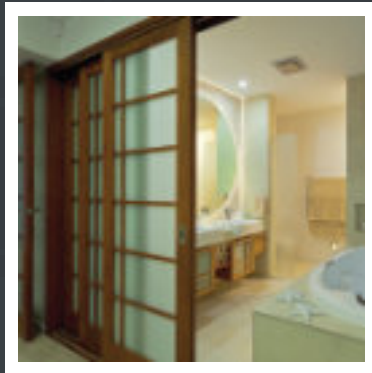
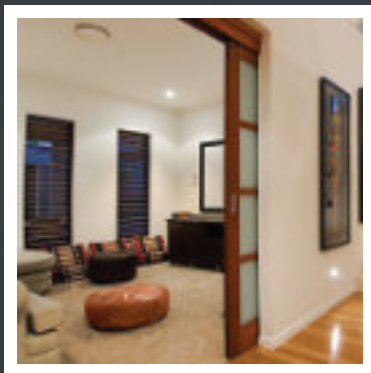
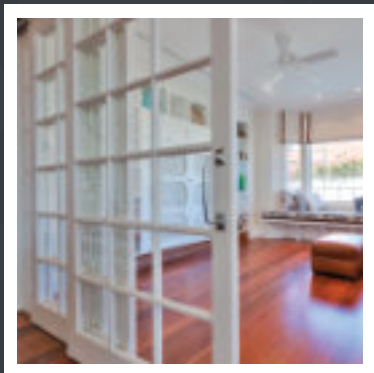
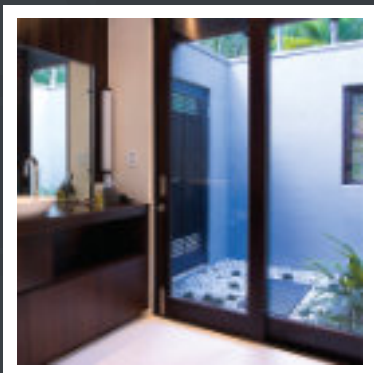
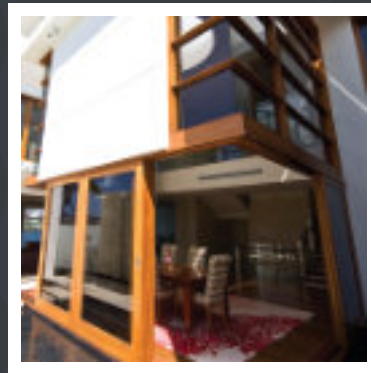
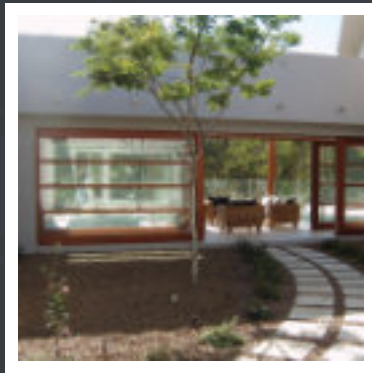
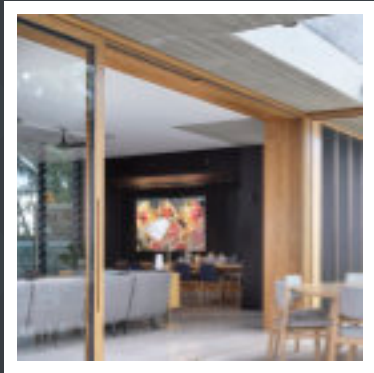
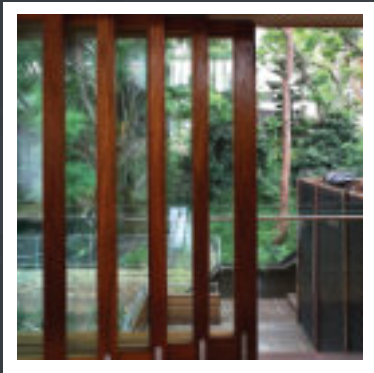
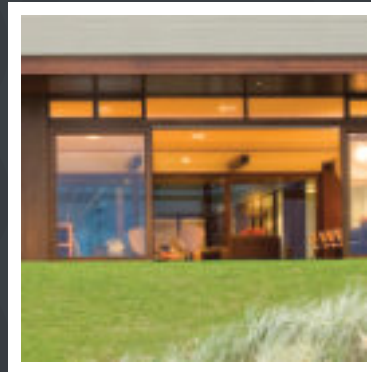
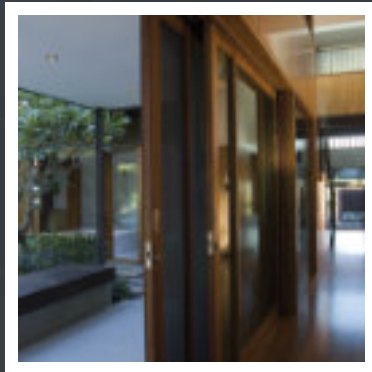
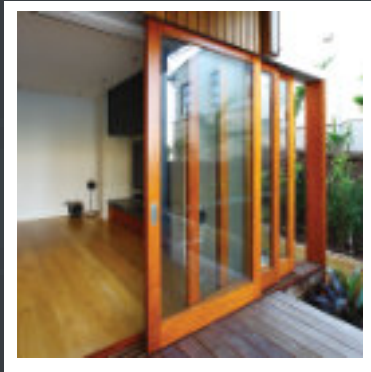
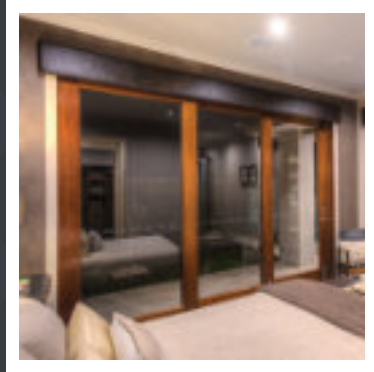
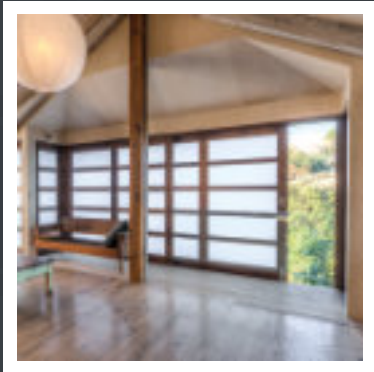
Opening two directions



Can't see the configuration you are looking for, then why not draw your own? We custom make every item, providing endless design, configuration and sizing options.

> Screening

Sliding door units can be fitted with matching flyscreen or SupaScreen doors panels. Screen door panels are lockable and allow for high levels of airflow. The frame depth of the sliding door unit must be large enough to allow for the additional screen door panels.



Hinged & French Doors

Hinged doors are a versatile and practical choice for entry and internal openings. Solid timber constructed hinged doors are a great choice on their own and they can be further enhanced with the latest designs and production techniques.

French doors have been a part of Australia's history for more than 200 years. They are a traditional way to open up areas of your home and their beauty is undeniable. With an infinite range of design options available, these doors can be used to add elegance to any home. As a pair of opening doors they are ideal for a patio area or any opening where sliding or bi-fold doors are not practical.

Our custom made approach ensures our hinged doors are designed to suit any building from the oldest heritage treasures, to the latest in ultra modern style.

Key Features

- > Suitable for narrower openings
- > Common with simple operation
- > Fully lockable
- > Easily screened

> Sizing

Common hinged door sizing (single door panel):

Maximum door panel size: 1050mm

Common French door sizing (double door panels):

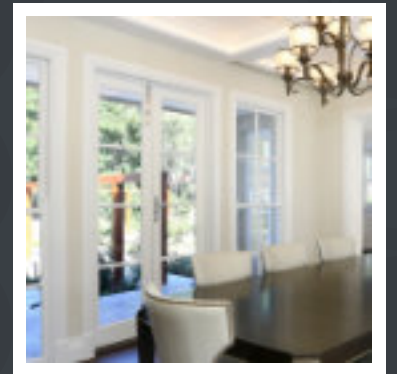
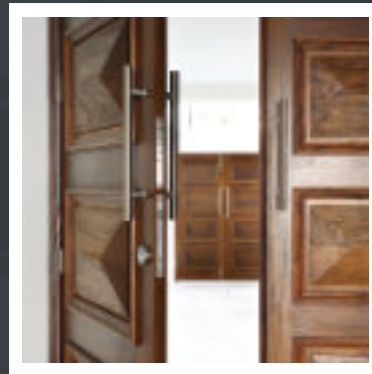
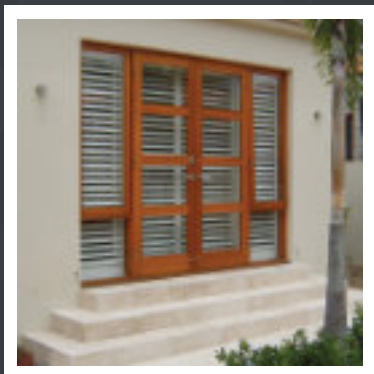
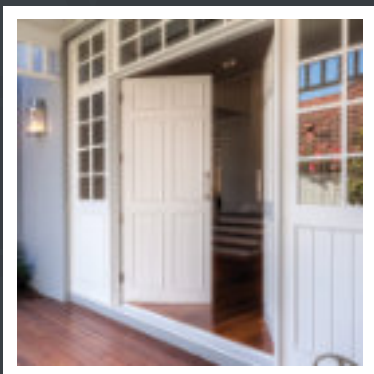
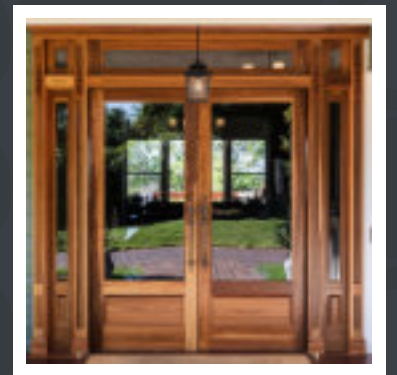
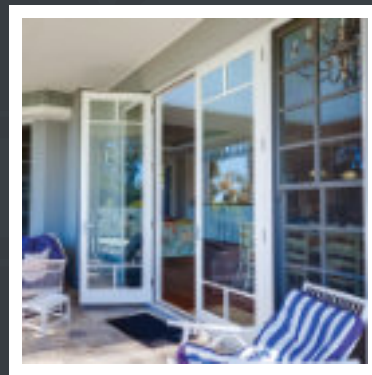
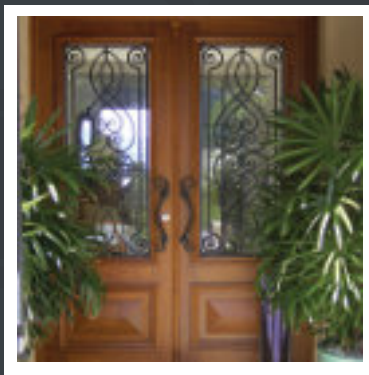
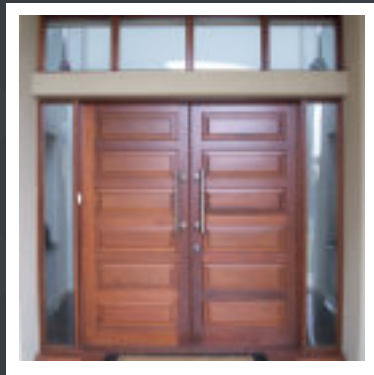
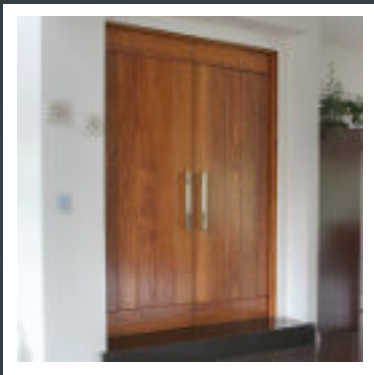
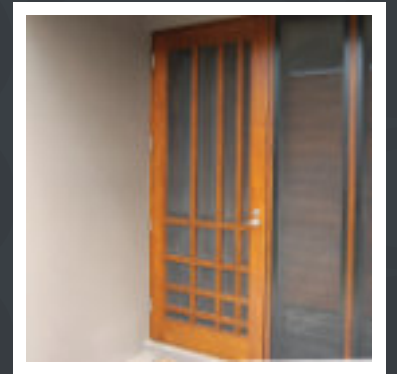
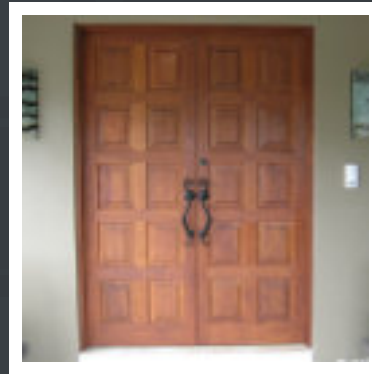
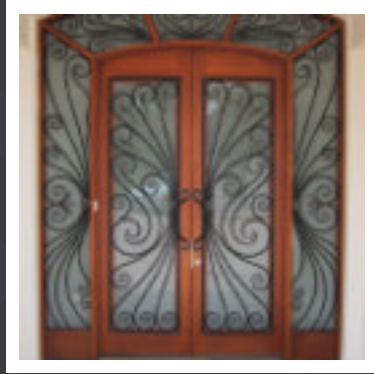
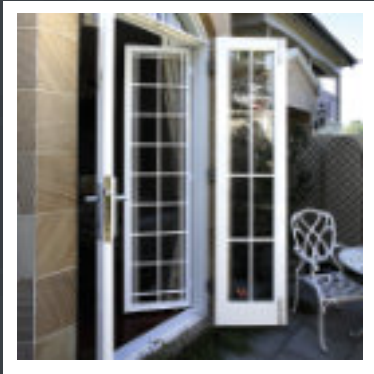
Maximum door size: 2100mm

> Screening

Hinged and French doors are easily screened. Door panels fitted with fly wire mesh or SupaScreen mesh are installed in-front of the original panels, opening in the opposite direction (or vice versa).

Screen door panels can be produced with the same design as the original door panel, helping to keep the desired appearance of your unique door, while having the increased functionality of a screen.





Door Designs

Choose from our range of architecturally inspired hinged and French door designs, or if you are dreaming of a particular door to suit your unique style and imagination, why not create your own design.



DUCE P1



DUCE P2



DUCE P3



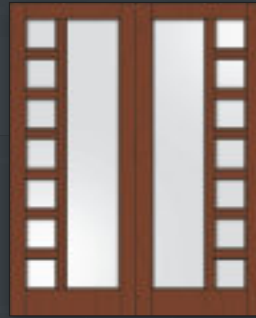
DUCE P4



DUCE P5L



DUCE P7



DUCE P68MB



DUCE P61VJH



DUCE P63TB



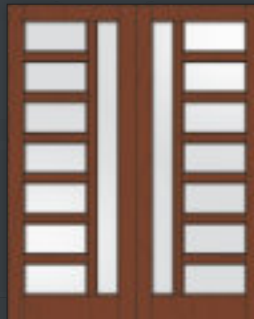
DUCE P64V



DUCE P65MD



DUCE P5



DUCE P68HV



DUCE P34



DUCE P91



DUCE P64DC



DUCE P65MB



DUCE P7212L



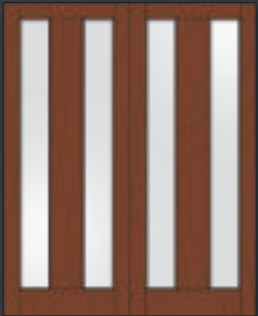
DUCE P8



DUCE P64HA



DUCE P66MD



DUCE P62V



DUCE P65HD



DUCE P7210LD

Did you know?

Timber is one of the world's most environmentally friendly building products. It is natural, reusable, recyclable and sustainable.

As timber grows it extracts carbon dioxide (CO₂) from the atmosphere. A little understood and exciting fact is that most of this carbon remains stored in the timber when it gets made into something else like a house, or a dining table or our solid timber windows and doors.

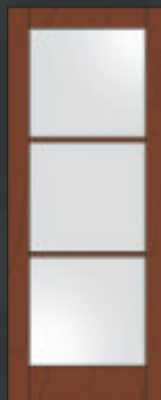




DUCE 1



DUCE 2



DUCE 3



DUCE 4



DUCE 5L



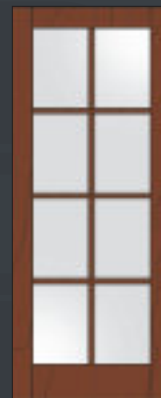
DUCE 5



DUCE 6



DUCE 7



DUCE 8



Did you know?

Producing timber generates very few pollutants to air, water and land compared to other building products.

It takes a staggering 46 times less energy to produce a tonne of timber than it does a tonne of aluminium.



DUCE 9



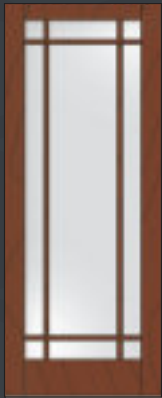
DUCE 10



DUCE 11



DUCE 12



DUCE 13



DUCE 14





DUCE 15



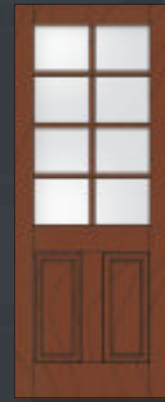
DUCE 16



DUCE 17



DUCE 18



DUCE 19



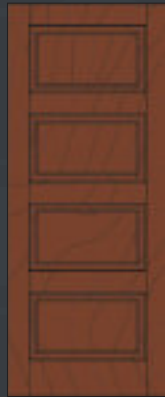
DUCE 20



DUCE 21



DUCE 22



DUCE 23



DUCE 24



DUCE 25



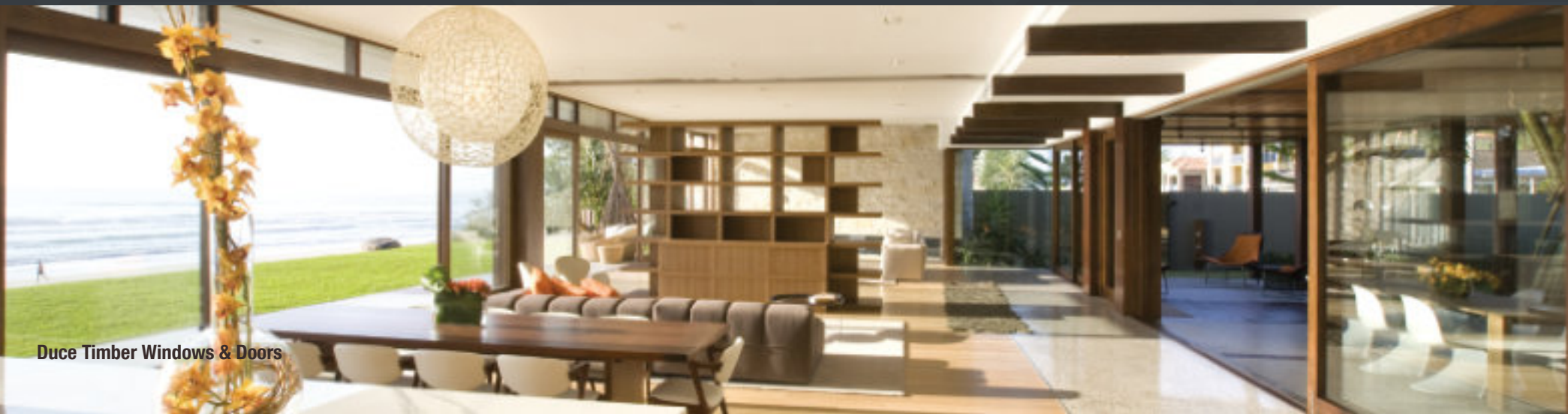
DUCE 26



DUCE 27



DUCE 28





DUCE 29



DUCE 30



DUCE 31



DUCE 32



DUCE 33



DUCE 34



Did you know?

One of the most simple and effective forms of energy free cooling, or passive cooling comes from cross ventilation.

Cross ventilation works by taking advantage of high and low pressure zones created by breezes and the wind to draw fresh air through a building. The breeze enters through a window, door or vent, bringing fresh air in, while the pressure difference on both sides of the building pulls stale air out an opening on the other side.

Selecting the right style and sized windows and doors can play an important role in cross ventilation. When it comes to designing your next project our team can assist you with your selections to help you get the maximum ventilation performance of your openings.



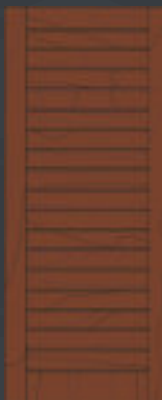
DUCE 341



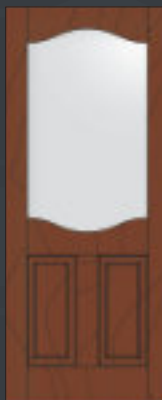
DUCE 342



DUCE 343



DUCE 35



DUCE 37



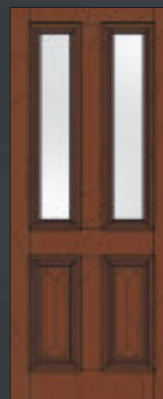
DUCE 39



DUCE 42



DUCE 64V



DUCE 44





DUCE 45



DUCE 46



DUCE 48



DUCE 8RT



DUCE 50



DUCE 90



DUCE 51



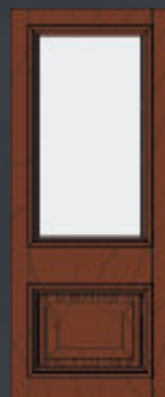
DUCE 84



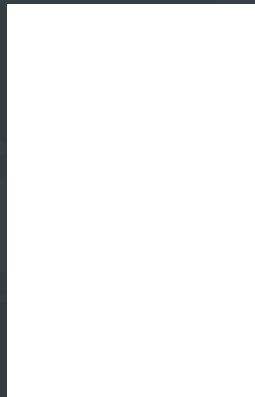
DUCE 52



DUCE 53



DUCE 54



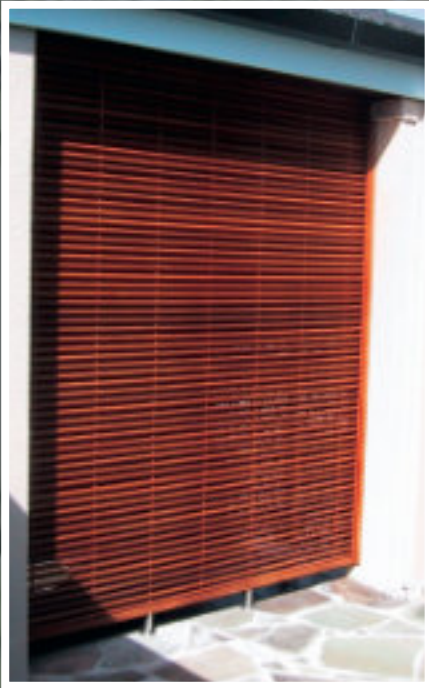
Create your own design



Ventwood

Ventwood panels by Duce Timber Windows & Doors are a unique design of modular or slatted timber which can enhance the style and appearance of any application. The Ventwood product has been in production for more than 65 years.

Ventwood panels can be produced using all of our stock timber species. Each panel is custom designed and manufactured on a per order basis and can be installed both as an internal or external architectural feature.



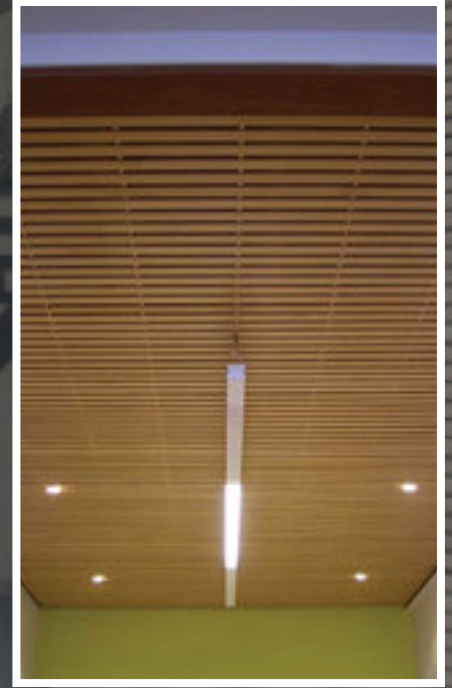
Screening Panels



Doors



Gates

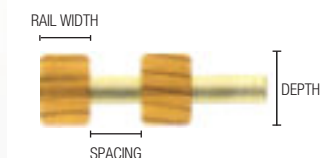


Ceilings

Ventwood Configurations

Ventwood panels can be configured in many different ways. Detailed to the left are a number of common Ventwood panel configurations. If these configurations do not suit an particular project then the panels can be custom designed to suit any unique application.

Sizing guide (in mm)



1248



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
12	17.5	34.9	7.9	14.3	31.3%

664



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
6	28.6	17.5	22.2	11.1	43.8%

684



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
6	34.9	17.5	15.9	11.1	31.3%

784 0J



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
7	34.9	17.5	8.6	11.1	20%

4124



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
4	55.6	19.1	20.6	11.1	27.1%

685



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
6	34.9	25.4	15.9	14.3	31.3%

785



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
7	34.9	25.4	8.6	14.3	20%

488



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
4	34.9	34.9	41.3	14.3	54.2%

4128



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
4	58.7	33.3	17.5	14.3	21.3%

6412J



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
6	15.9	58.7	34.9	19.1	68.8%

5812



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
5	33.3	58.7	27.6	19.1	44%

678R



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
6	34.9	34.9	15.9	14.3	31.3%

848L



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
8	17.5	34.9	15.5	14.3	47.6%

948L



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
9	17.5	34.9	11.9	14.3	42.1%

788



No of rails	Rail width	Rail depth	Spacing	Dowel diameter	Open area
7	34.9	34.9	8.6	14.3	20%

FULLY CUSTOM MADE

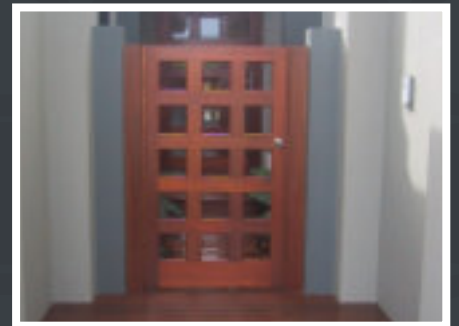
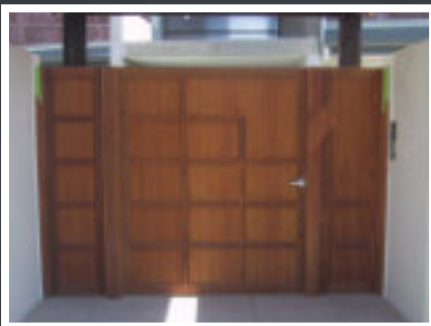
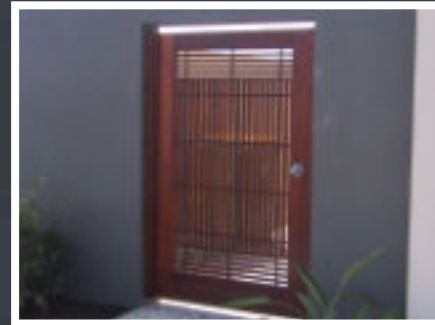
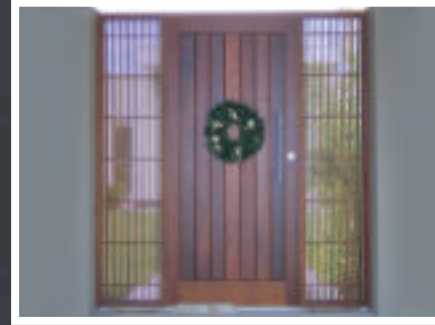
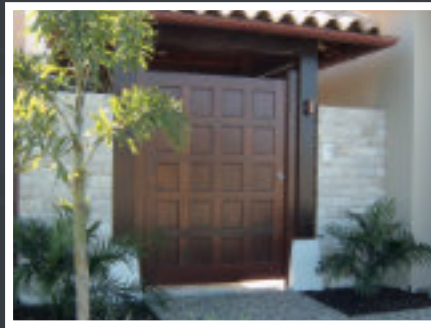
Gates

Custom designed timber gates add style and security to your home. Our selection of quality timbers allow for extra wide designs, suiting a variety of openings, and our custom made approach means gates can be supplied with or without a surrounding frame.

There is no limit to the design of a gate, with the ability to incorporate glass and Ventwood panels, or even match the design of an entry door. Gate systems are strong, reliable and built to withstand the harsh Australian environment.

Key Features

- > Extra wide gate sizing
- > Can be designed to match entry doors
- > Self-closing option
- > Electronic locking system option
- > Capped top rail option





Windows

Timber windows are a perfect addition to any home or building. They are fully customisable and come in a variety of different styles, designed to suit any opening. We custom make all of our products, ensuring every window is perfectly sized for the opening. Our window styles include:

- > Casement Windows
- > Double Hung Windows
- > Awning or Hopper Windows
- > Bi-fold Windows
- > Sliding Windows
- > Louvre Windows
- > Sashless Windows
- > Fixed or Picture Windows
- > Bay Windows
- > Curved and Arched Windows

Together with their timeless beauty, the inclusion of timber windows can also have a significant impact on the energy efficiency and comfort of your home. For a typically insulated house, the windows and doors provide the greatest opportunity for heat gain or loss. Choosing timber windows, coupled with the right glass is a simple way of improving the comfort of your home, while at the same time saving real money on your energy bill and reducing the green house gas emissions.

All of our windows are certified to the Australian Glazing Standard AS1288 for your safety. It is our policy to certify all windows to suit water penetration resistance and structural requirement of Australian Standard AS2047.

Casement Windows

A casement window offers ample ventilation regardless of wind direction. Windows can be opened to 105 degrees and the angle of the sashes can be adjusted to create a generous opening. Windows are hinged along either vertical edge, opening out from the side opposite to the side that is hinged, catching even the softest summer breeze. Colonial and Federation bars can be added if desired.

Key Features

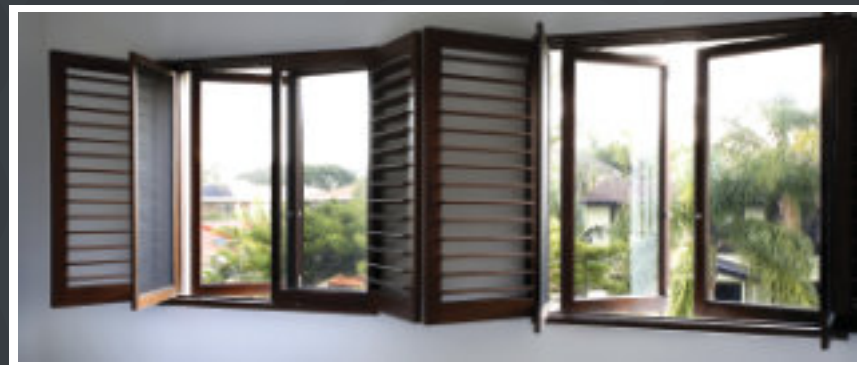
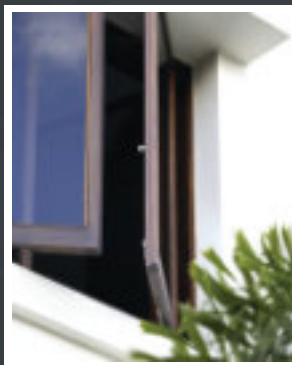
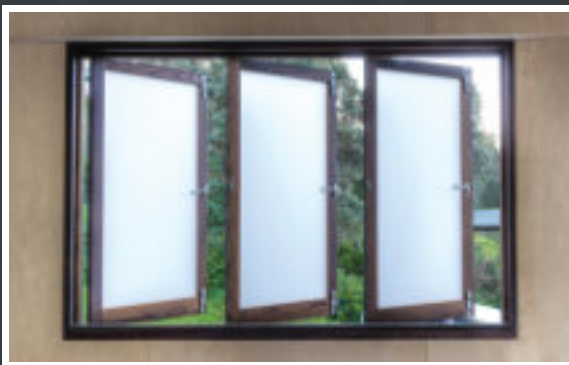
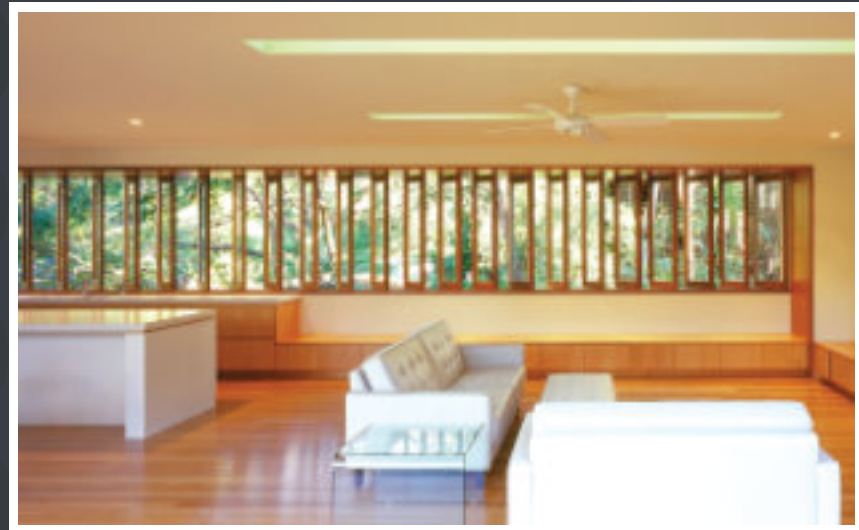
- > Angled into the direction of a breeze
- > Internal operation winder option
- > Suitable to very wide openings

> Screening

Casement windows can be effectively screened with either an inwards opening hinged screen, a retractable screen or a combination of a fixed screen and internal winder to operate the window's sashes.

> Sizing

Casement windows can be produced to suit a variety of sizes. They are often configured in sets, making them suitable to very wide openings. Our custom designed and made approach ensures that the size of the window sashes and the number of sashes in the casement window is potentially endless. A casement window can be made to suit a small powder room or large enough to span the entire length of a building.



FULLY CUSTOM MADE

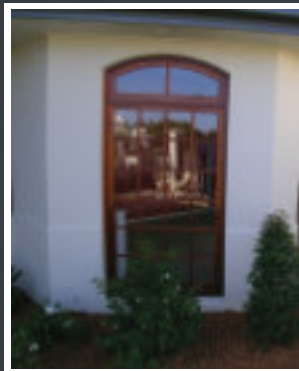
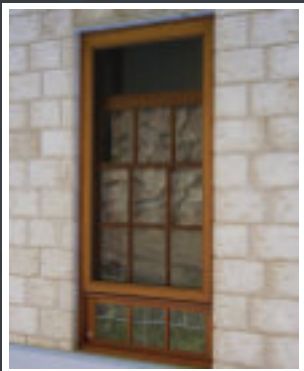
Double Hung Windows

Double hung windows are a non-projecting window that are designed to offer increased ventilation for tall openings, while still allowing for external screening. They are easy to operate, gliding smoothly into the desired position.

Double hung windows feature two independently moving sashes that can be opened to control the level of air flow, as well as allowing for easy cleaning.

Key Features

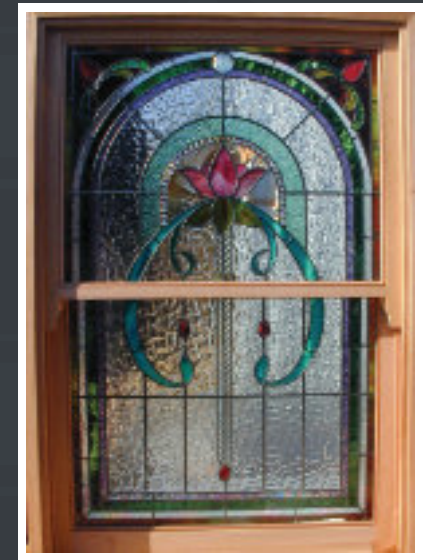
- > Top and bottom opening, drawing in cool air and exhausting hot air
- > Suitable to tall, narrow openings
- > Non projecting and easily screened



> Sizing

Double hung windows can be produced to suit a variety of sizes. These windows can be made to span very tall openings. The overall height and width of a double hung window is generally only limited by the weight of the sashes.

Talk with our experienced team on the size requirements of your double hung windows.



> Screening

Double hung windows can be effectively screened with a fixed screen external to the moving sashes. It is common to have the screen covering the entire window opening area.



FULLY CUSTOM MADE

Awning Windows

Awning or Hopper windows, are becoming the popular window of choice in many homes. They are pushed or wound out effortlessly and when open, these windows offer good ventilation with a measure of rain protection. Awning windows are hinged along the top and open from the bottom.

As with casement windows, awnings can be utilised in most positions, but are not always suitable for decks or walkways due to their projecting nature.

Key Features

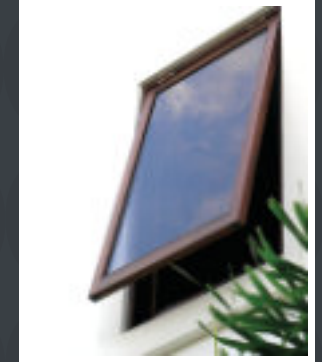
- > Can be fitted with gas struts to achieve greater sizing and opening
- > Internal operation winder option
- > Suitable to very tall openings

> Screening

Awning windows can be effectively screened with either an inwards opening hinged screen or a combination of a fixed screen and internal winder to operate the window's sashes.

> Sizing

All our awning windows are custom made, allowing the window to suit a variety of opening sizes.



> Gas Struts

Adding gas struts to an awning window alters its design constraints and its overall functionality. The inclusion of gas struts enables the awning window to support much higher weights, allowing for increased sash sizing. The functionality of a gas strut awning also increases ventilation and airflow, resulting from almost 100% opening.



FULLY CUSTOM MADE

Louvre Windows

Louvre windows are a great way to achieve maximum air flow, while still maintaining a stylish appearance. When opened, the individual blades offer very little wind resistance allowing the breeze to flow freely through the window. Louvre blades come in a range of glass, timber and aluminium, allowing you to mix and match to suit the design of your room.

Louvre windows are well suited to high positioned openings where access to operate is difficult. In these scenarios Duce power operated louvre windows give you the ability to open and close every blade with a press of a button.

Key Features

- > Achieves maximum ventilation
- > Optional motorised operation
- > Optional screening
- > Available in glass, timber and aluminium blades

> Sizing

Louvre windows are very flexible in their sizing. Individual blades are arranged above one another to form a bank of louvres. Windows can comprise of a single bank of blades, common for smaller openings, or combined with multiple banks to span limitless lengths. Louvre blades come in two sizes:

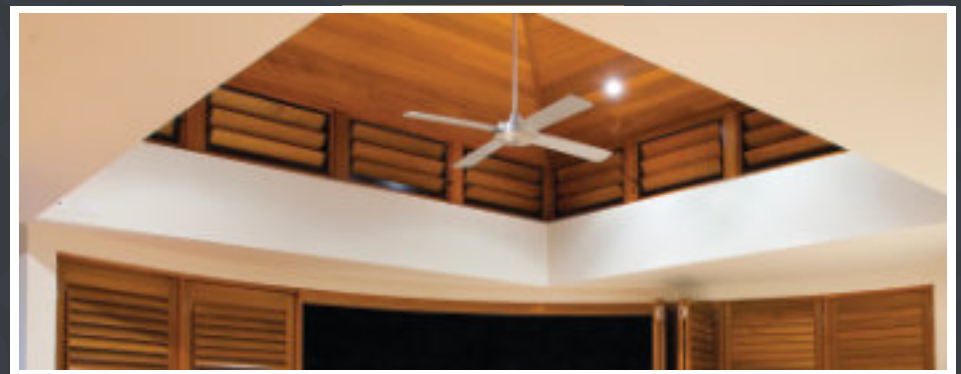
102mm high blades and 152mm high blades.

The maximum width a blade can span is :
750mm for 102mm high blades and 900mm for 152mm high blades.

The height limit for a bank of blades is 3000mm.

> Screening

Contrary to popular belief, louvre windows can be fitted with fly wire or SupaScreen mesh screens. The screens are normally located on outside of the window, however internal screening can be achieved if required.



Sliding Windows

Sliding windows are one of the most common style of windows used in a modern home, thanks mainly to ease of use and their ability to suit almost any opening. They are an excellent space saver and perfect alternative to bi-fold windows. Although they cannot generally achieve 100% opening, they can be supplied as stackers with multiple sashes sliding one or two directions. Screens are available with fixed or sliding options.

Key Features

- > Smooth and easy operation
- > Suitable to for almost all openings
- > Fixed or sliding screens

> Sizing

Sliding windows are one of the most versatile windows when it comes to sizing. They can be custom made to suit almost any opening.



> Configuration

Configuration options for sliding windows are similar to sliding doors and can be broken down by the direction the operable doors move; opening to the right, opening to the left and opening both directions. Some common configurations are:

Opening a single direction

OX		XO	
OXX		XXO	
OXXX		XXXO	

Opening two directions

OXXO	
OXXXXO	
OXXXXXXO	

Can't see the configuration you are looking for, then why not design your own?

> Screening

Sliding windows can be screened with fly wire mesh, stainless steel mesh or SupaScreen mesh. The choice of mesh can be in a fixed position or installed into an operable sash to allow for sliding of the screen.

Alternative options for screening include the use a retractable screen or for a more architectural appearance the window can be fitted with a Ventwood screened sash.

FULLY CUSTOM MADE

Bi-fold Windows

Bi-fold windows are a perfect choice when an unobstructed view is important. The sashes fold smoothly to the end of the window, opening the entire area and allowing for maximum ventilation. These windows can also be supplied with a wide servery sill, a perfect addition to an entertainment or bar area.

Adding an integrated retractable flyscreen makes bi-fold windows an aesthetically pleasing, and a practical window choice for medium to large openings.

Key Features

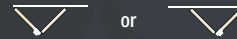
- > Excellent opening span with maximum ventilation
- > Optional servery sill and retractable screen
- > Suitable to most opening sizes



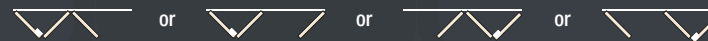
> Sizing and Configuration

Bi-fold windows can be produced to suit a variety of heights and widths. They are well suited to wide openings, corner openings or openings adjacent to an entertainment area. We custom make to any size, with some common configurations detailed below:

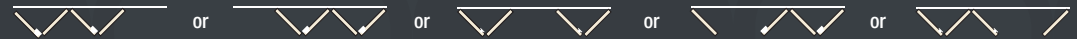
BI-FOLD WINDOW - 2 Sashes



BI-FOLD WINDOW - 3 Sashes



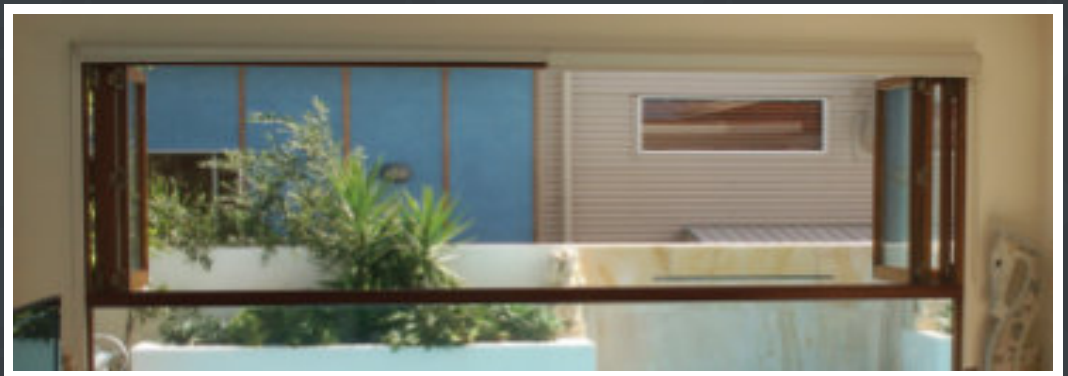
BI-FOLD WINDOW - 4 Sashes



Can't see the configuration you are looking for, then why not design your own? We custom make every item, providing endless design, configuration and sizing options.

> Screening

Bi-fold windows can be effectively screened with a retractable screening solution. These screens are housed at the top of the window, unwinding downwards to screen the entire opening. For more details on this option, please refer to the Screening section of our Selection Process guide on page 6.

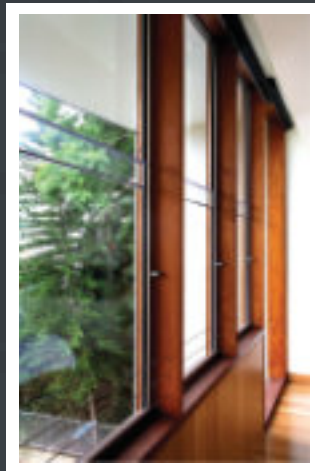


FULLY CUSTOM MADE

Sashless Windows

Duce sashless windows are sleek and stylish, giving the appearance of fixed glass with the functionality of a fully operable window. Their completely customisable sizing and operating designs allow them to be installed into almost any opening. The absence of the solid border around the panels of glass means that these windows are aesthetically unique and are perfectly suited to all homes, from a 19th century Federation to a modern contemporary design.

Duce sashless windows can consist of a number of panels of glass, arranged in various configurations. The panels can be configured to slide up or down the window area, or both directions if required. They are simple to operate, gliding smoothly into the desired position.



FULLY CUSTOM MADE

Picture Windows

Picture or fixed windows are non-operable windows that provide maximum light and can make rooms appear larger, and more spacious. The sleek bevelled edged design is aesthetically pleasing allowing for improved peripheral vision from inside to outside the window.

Picture windows can be combined with any other window style to create truly unique combinations that can improve the entire aesthetic look and feel of your home.



FULLY CUSTOM MADE

Bay Windows

Bay windows create additional space and dimension to a room and can give your home a distinctive look. They are used to increase the flow of natural light into a building as well as provide views of the outside that would be unavailable with an ordinary window. It is perhaps for these reasons that bay windows have become an architectural staple in a city of limited space.

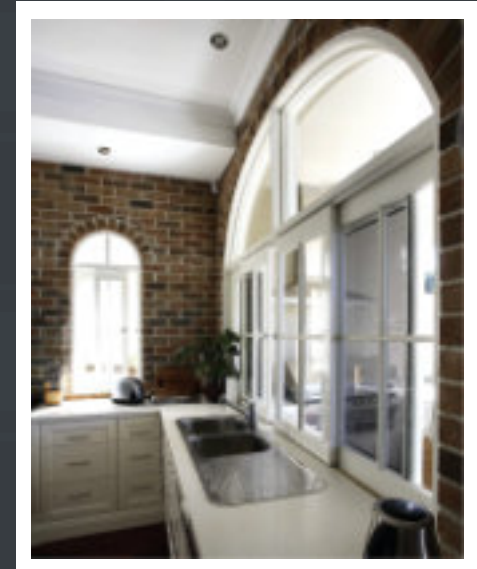


FULLY CUSTOM MADE

Curved & Arched Windows

Arched windows come in various forms and add a classic touch to any home, especially above an entrance door. Arched windows can also be used to recreate an architectural period.

Curved windows are an excellent architectural feature, a fine example of this are curved bi-folding doors which are used in many architect designed homes adding a sleek contemporary look.



Duce Guarantee

Together with over 82 years of experience and industry expertise, all products that are produced by Duce Timber Windows & Doors are covered by the 'Duce Guarantee', providing peace and mind on your investment.

The full details and conditions of the Duce Guarantee are available online by visiting www.duce.com.au/warranty or a copy of the Duce Guarantee can be obtained by contacting your local Duce Selection Centre.

Customer Service

Whether you are an architect, designer, builder or homeowner, Duce Timber Windows & Doors is here to support your next building or renovation project.

We aim to support and accommodate our clients in every way, and if you can't see something 'just ask'. Our friendly and experienced team members are always pleased to assist you at every stage, from concept through to delivery and beyond.

Installation Service

We offer a full service to our clients and where installation of your custom made timber windows, doors and other products is required we can assist there too. The Duce Timber Windows & Doors sister brand, Duce Instaltek, offers non-structural installations, backed by over 30 years experience. For more information on Duce Instaltek services, please contact your local Duce Design Consultant.

Avoid substandard and non-compliant windows and doors

The Australian environment subjects a building's windows and doors to extreme weather conditions, ranging from blistering heat, to torrential rain and damaging winds. Exposure to these extreme conditions requires windows and doors to be of a quality build, meeting or exceeding Australian Standards, irrespective of the material the item is made from (aluminium, PVC, fibreglass, timber, etc).

Unfortunately, many of the products on the market, whether made in Australia or of foreign import, are not being tested and rated. Testing is a must for both the structural integrity of the building and the safety of its occupants. There are some types of architecturally designed windows and doors that cannot be tested, however this represents a very small percentage of the products being manufactured. Below is a list of just some of the testing that should be carried out to ensure windows and doors are safe and reliable.

- > *Deflection Test - AS 4420.2*
Positive and negative wind pressures are applied to the face of the window to test the maximum deflection under wind load.
- > *Operating Force Test - AS 4420.3*
To verify that an opening sash is capable of opening and closing without undue effort.
- > *Ultimate Strength Test - AS 4420.4*
The air leakage of a window is tested to ensure energy and acoustic efficiency.
- > *Water Penetration Resistance Test - AS 4420.5*
This test is designed to ensure no water leaks through the window into the building.
- > *Ultimate Strength Test - AS 4420.6*
Negative and positive wind pressures are applied to the window to at least 1.5 times the design wind pressure to ensure it does not fail in unusual wind conditions.

It is crucial when purchasing windows and doors to be aware of the importance of installing products that are rated and backed by the warranty of a reputable manufacturer. Failure to do so may result in unsafe or inferior quality windows and doors, which could cost a lot more in the long run.

Duce Timber Windows & Doors are a proud member of the Australian Glass & Window Association (AGWA), and uphold the strict regulations and ethics set in place by this industry body. As a member of the (AGWA) you can be confident that our products are made to withstand Australian conditions.

Proud member of the

Australian Glass & Window Association

Below are some of the requirements of members of the Australian Window Association (AGWA)

- > Members manufacture window and door products in compliance with all relevant Australian Standards.
- > Members verify their window's design performance using a NATA third-party accredited testing laboratory.
- > Members' windows are subject to annual NATA audits.

For more information visit www.agwa.org.au



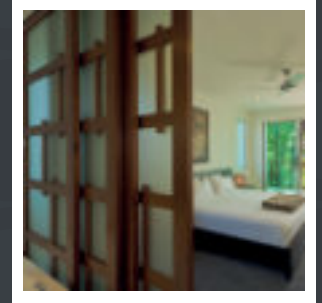
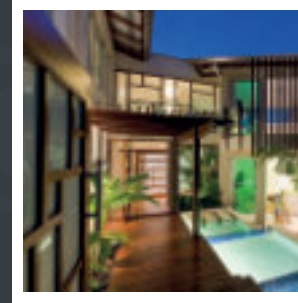
Featured Projects

Since 1934 Duce Timber Windows & Doors have been working with leading Architects, Designers and Builders to create Australia's most prestige and innovative homes.



Winbirra House

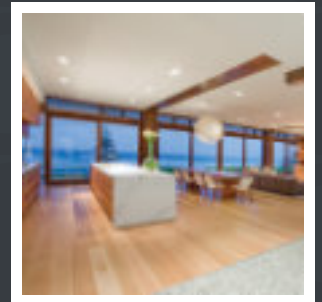
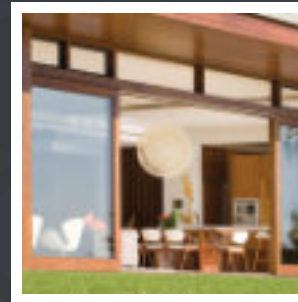
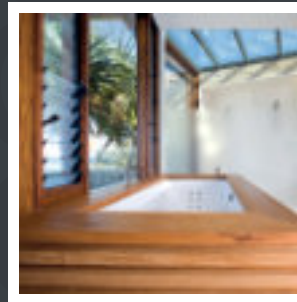
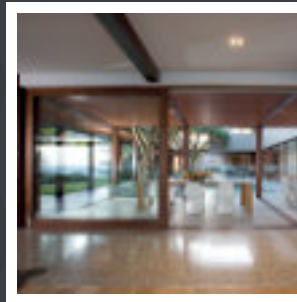
A modern and innovative design featuring an abundance of meticulously crafted timber windows & doors throughout. By all accounts a truly spectacular home.



Albatross Residence

This remarkably stunning home is situated on the South-Eastern Coast of Queensland and has been designed to completely immerse its occupants in the beachfront surroundings.

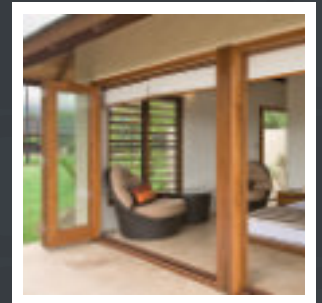
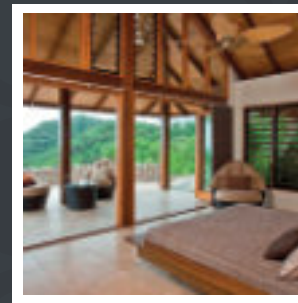
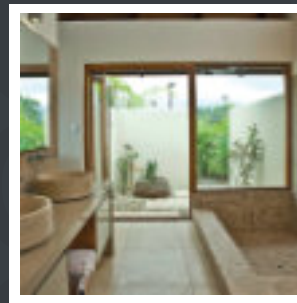
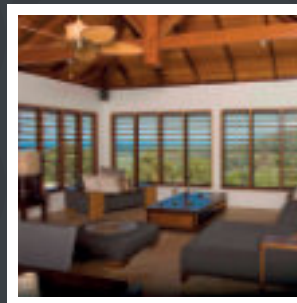
With beautiful timber windows and doors spanning across most of the building, this home features an abundance of breathtaking views and fresh ocean breezes.



Mali Mali House

The goal of creating uninterrupted views and a feeling of tranquil relaxation is effortlessly achieved by this beautifully design building.

The large spanning timber doors and abundance of timber windows and louvre windows ensures the occupants can fully indulge in the breathtaking landscape.

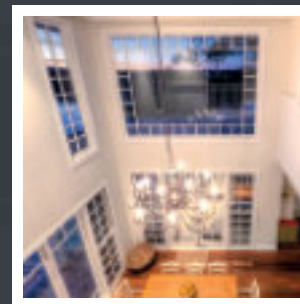
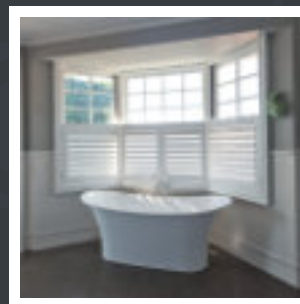
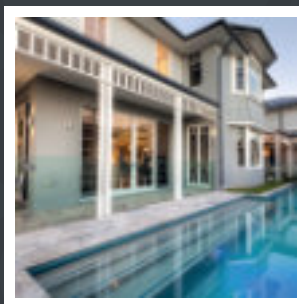




King Arthur Residence

Elevated high along the Brisbane River, this luxurious home features an abundance of beautiful white painted timber joinery.

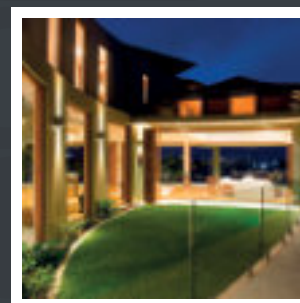
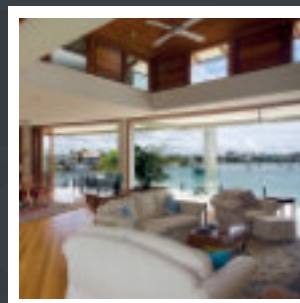
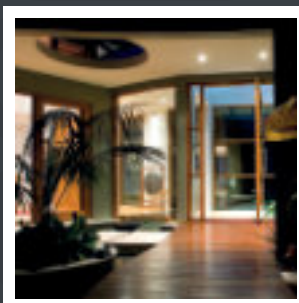
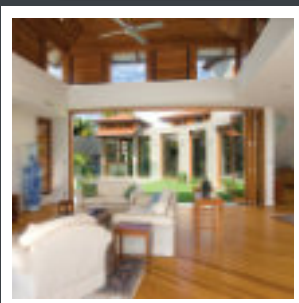
The custom designed external doors and windows perfectly complement the unique style of this home and offer breathtaking views of the beautiful surroundings.



Mooloolah Residence

An innovative home, featuring a perfect balance of modern style, imagination and luxury.

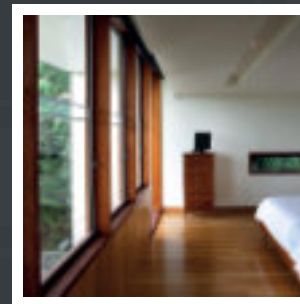
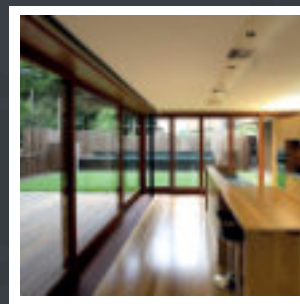
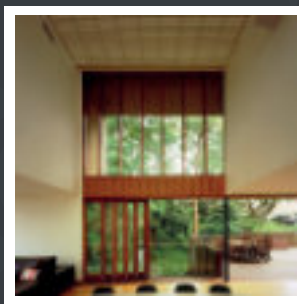
The endless spanning timber windows and timber doors allow the home's occupants to take-in and enjoy every element of the beautiful surroundings.

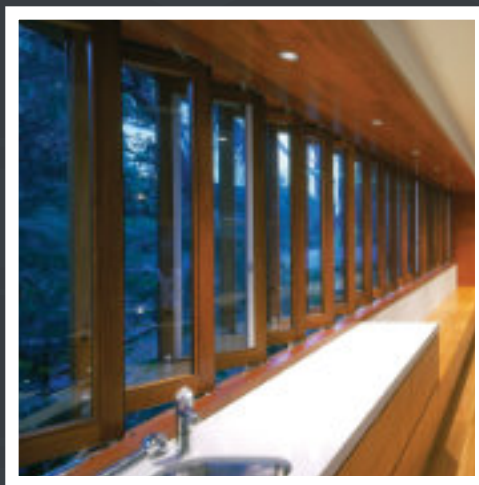
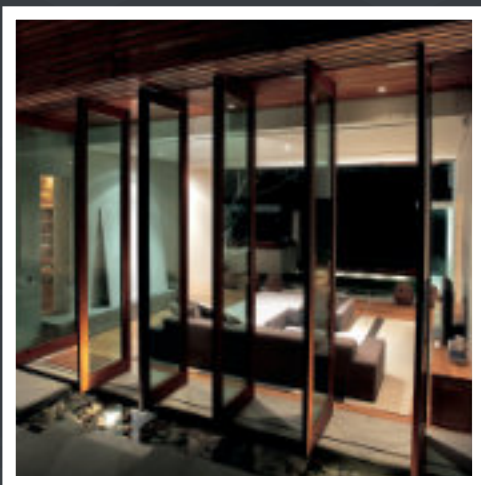


Highgate Hill Residence

Comprising the vast majority of the home is an array of oversized timber windows and doors which effortlessly open and extend the living areas into the surrounding environment.

The internal ceilings have been integrated with the Duce Ventwood product, which features a series of slatted timber panels combined in custom configurations, giving the ceiling its own sense of character.





AUSTRALIAN
MADE AND
MANUFACTURED



ESTABLISHED
1934

FOURTH
GENERATION
BUSINESS

Web: www.duce.com.au
Email: sales@duce.com.au
Phone: 1300 00 DUCE (3823)

Servicing Australia wide, with 6 great Selection Centre locations:

Head Office

49 Brisbane Road BUNDAMBA QLD 4304
T 07 3816 0244

Sunshine Coast

11 / 64 Sugar Road MAROOCHYDORE QLD 4558
T 07 5479 4411

Brisbane

2 / 17 Mayneview Street MILTON QLD 4064
T 07 3367 1733

Coffs Harbour

2 / 22 Keona Circuit COFFS HARBOUR NSW 2450
T 02 6651 4311

Gold Coast

1 / 22 Hilldon Court NERANG QLD 4211
T 07 5596 0466

STATUS+
PLUS

51 Anderson Street CAIRNS QLD 4870
T 07 4037 1300



TIMBER WINDOWS & DOORS