



BESPOKE  
WINDOWS

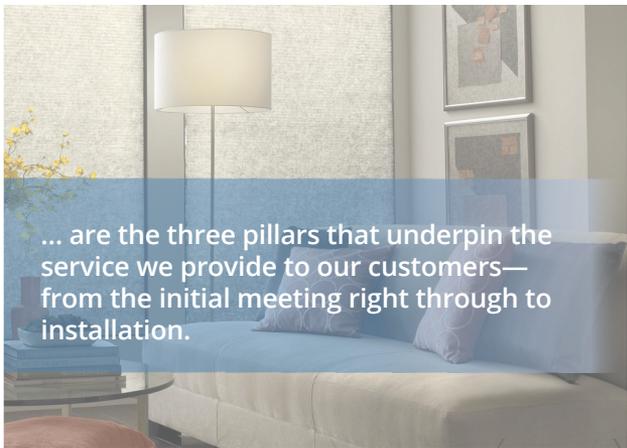


## Open Your World Of Bespoke Windows & Doors

Discover beautiful Tilt & Turn windows and doors for your home, manufactured using the latest advancements in window and door industry



**Bespoke  
security, quality  
and innovation**



... are the three pillars that underpin the service we provide to our customers—from the initial meeting right through to installation.

## Inspired by your Taste & Needs

The selection process of components that go inside a window starts with your needs and taste. Whether you're looking for a window in a specific colour, design, or higher security and energy efficiency, we'll help you choose the perfect window for your house.

Due to lack of quality and long-lasting window and door hardware on the market, our team of dedicated professionals have put together the most balanced combination of a window, attaining a level of quality,

features, performance and price that's unmatched in Canada, and even in North America.

It was all possible by selecting the components of superior quality from the world's most experienced and reputable manufacturers. The result of our work presented in this brochure is the industry's top window that's surpassing other offerings in terms of warranty period, security, durability, functionality and affordability.

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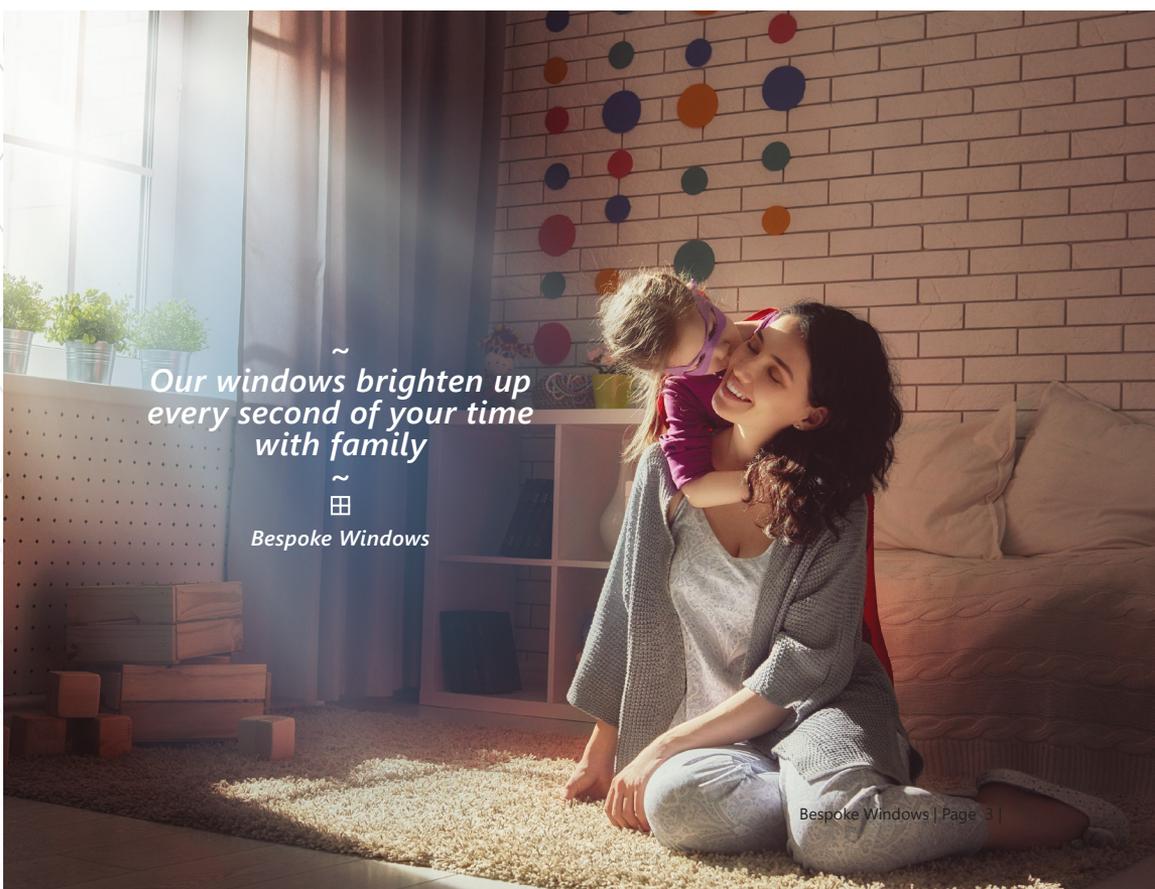
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~  
*Our windows brighten up  
every second of your time  
with family*

~  
☐  
*Bespoke Windows*

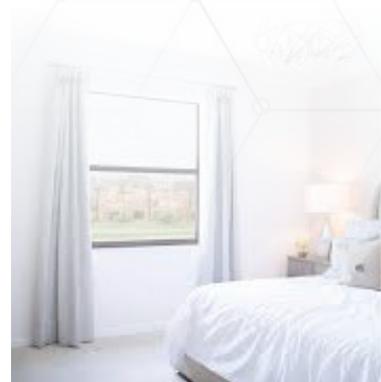
# About Tilt & Turn Windows



Designed to offer classic and contemporary looks for both modern and traditional houses without compromising on the innovative German engineering, it's no surprise that Tilt & Turn windows have become the first choice for many homeowners in Alberta and other parts of the world.

Tilt & Turn windows are inward opening, which means you can open them like the regular casement windows from the side or tilted from the bottom so that the top sash is angled into the room. This allows the windows to offer better ventilation and security. Add the best hardware and thermal glazing, and you'll get an unmatched balance between durability, solar protection, soundproofing, security and energy efficiency.

Some of the biggest advantages of Tilt & Turn windows include their two-way opening mechanism, flexible ventilation (upwards and side opening), thicker profile giving greater storm and hail resistance, versatile design options suitable for both small and large room sizes and many other advantages.



# How to operate Tilt & Turn Windows



Tilt & Turn windows can be operated in three main positions:

## TILTED POSITION

Turn the handle 180° to allow a window to tilt inwards and create an approximate aperture of 10cm. An ideal position for hot summer days when you need a fresh stream of air through the room without the danger of children falling out or getting fingers trapped while playing near open windows.



## TURNED POSITION

A fully opening aperture makes cleaning of both the inside and outside effortless and safer, taking out the need for unnecessary risk of leaning out of the window or climbing a ladder for upstairs windows. This position also provides a fire escape in the event of an emergency.



## CLOSED POSITION

Traditional windows are prone to air and water leakage due to the lack of perimeter clip and flock locking system, and that is one of their biggest flaws. Tilt & Turn windows are built with nearly invisible hinges, which reinforce the air-tightness of the window, keeping your house warm and unaffected by frigid weather.



# Why to choose Tilt & Turn Windows

Sometimes it gets hard to see real benefits of a product until you compare it to similar products on the market. That's why we created a handy table to compare the key advantages of the Tilt & Turn windows over the Traditional ones.

Key Advantages	Description	Tilt & Turn	Traditional
Profile Material	uPVC - more durable, BPA Free and fire-resistant	✓	✗
Exterior Wall Thickness	Temperature resistance, hail proofing, overall durability	✓	✗
Metal Reinforcement	Security, wind resistance, longer life	✓	✗
Warranty	Tilt & Turn windows tend to come up with longer warranty	40/ysr	25/ysr
Functionality	Tilt & Turn windows can be opened in three positions: tilt, turn and fixed closed	✓	✗
Customization	An enhanced security key lock and adjustable ventilation	✓	✗
Energy efficiency	7 point all round tightening hardware, more gaskets	✓	✗
Security	A greater combination of hardware and rigid materials	✓	✗
Accessibility	A handle mechanism makes the window operation and accessibility easier for an elderly person	✓	✗
Child Safety	Tilt only window configuration, lockable handle options	✓	✗
Cleaning	Opening inwards to cut off the expenses on hiring window cleaning services	✓	✗
Large Operating Windows	Heavy duty frame and hardware can handle up to 330 lbs. operating sash	✓	✗
Maintenance Free Features	Available in various design options to achieve greater maintainability and operativeness	✓	✓
Noise Reduction	Thick UPVC walls, four side tight close hardware	✓	✗
Wind Resistant	Opens inwards - rule out wind damage in open position	✓	✗
Superb Quality	An ideal choice for people who prefer durable and quality products with an adequate price tag	✓	✗

# Key advantages of Tilt & Turn Windows

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## Environmental Friendly

Produce less waste with 100% recyclable and most durable and long lasting materials Save on heat and air conditioning



## Triple Pane Noise Reducing Glass

Up to 50% of noise reduction achieved by using different thickness glass panes placed on various distances.



## Self-Cleaning Glass

Neat® Naturally Clean Glass is a revolutionary self-cleaning technology that utilizes the sun's UV rays to loosen dirt so it stays virtually spotless



## Wealth Of Styles And Colours

Over 20 smooth and woodgrain colours available. The 3-layer construction of the film ensures the colours retain their freshness for the entire life of your windows.



## Enhanced Security And Durability

Roto NT multi-point security mechanism locks a window sash tightly for enhanced security and safety.



## Fire Resistance

Advantage of uPVC over PVC frame is fire resistance and better durability.



## Hail And Storm Resistant

Our windows can be constructed with an impact-resistant glass to have even more protection against severe storms, while an additional exterior wall thickness is available in standard tilt & turn windows configuration.



## Child Safe

The windows with safety glass and handles.

# Materials used in Tilt & Turn Windows

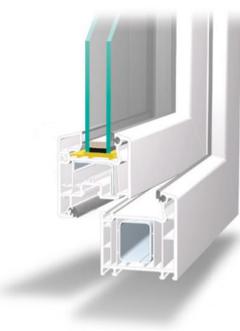
Superior durability, efficiency and sophisticated technology—these are some of the features we considered when selecting the window parts from the world’s leading suppliers in the likes of VEKA, Roto and Cardinal.

## VEKA PROFILE SYSTEM

Headquartered in Germany and family owned since 1969, VEKA has grown into the world’s leading manufacturer of PVCU window systems. By adhering to their culture, heritage and commitment to quality and superior engineering, it’s no surprise that they have presence in over 40 countries across Europe, Asia and America.

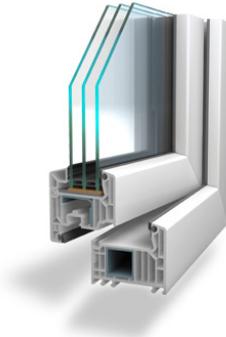
We offer VEKA’s two prime window profiles: **VEKA Softline AD70** and **VEKA Softline 82**. Each system comes with unique set of features and is given the Class A rating—a classification confirming the highest quality standard and an optimal choice to protect your home against heat loss and noise, and increase the stability and durability of your windows.

### VEKA SOFTLINE AD70

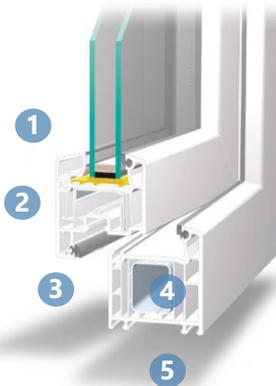


Quality: ★★★★★★  
Price Range: ★★★★★  
Customer Rating: ★★★★★★  
Quality Rating: *Class A*  
Energy Star® Rating: *RE 37 | Zone 3*  
Energy Efficiency: ★★★★★★

### VEKA SOFTLINE 82



Quality: ★★★★★★  
Price Range: ★★★★★★  
Customer Rating: ★★★★★★  
Quality Rating: *Class A*  
Energy Star® Rating: *RE 37 | Zone 3*  
Energy Efficiency: ★★★★★★



**VEKA SOFTLINE AD70**

Whether you aim for a classic white or a modern colour look incorporated in a unique form such as arched, triangular, gable or bay window—the Softline AD70 is designed to provide you a high degree of customization.

- 1** Slightly rounded contours give the SOFTLINE system its classic look
- 2** Best thermal insulation of up to  $U_w = 1,0 \text{ W/m}^2 \text{ K}$ , depending on the type of glazing, significantly reduces heating costs
- 3** High-quality gaskets in elegant grey—the twin seal gaskets reliably keeps cold, draughts and damp at bay
- 4** Galvanized metal reinforcement in accordance with VEKA reinforcement guidelines guarantee stability and long-lasting functionality
- 5** 5-chamber profile with 70 mm standard installation depth makes optimum use of the insulating effect of air



**VEKA SOFTLINE 82**

Being one of the top three energy efficient and modern profile systems of PVCU windows in the world, the Softline 82 system offers the highest level of thermal insulation, quality and features.

- 1** An installation depth of 82 mm makes the system universally suitable for new refurbishments
- 2** Its excellent thermal insulation is achieved by a unique multichamber geometry, enabling  $U_w$  values of up to  $0.67 \text{ W/(m}^2\text{K)}$
- 3** The high-performance sealing system with triple gaskets shields off noise, cold, damp and draughts
- 4** Proven steel reinforcements have the size and strength to guarantee safe functioning and burglar resistance
- 5** The classic design with its elegant lines and slightly rounded contours blends in with any architectural style

Established in 1935, Roto has since become a worldwide leading producer of window and door hardware components. Their award-winning mechanical multi point locking systems are recognized by the industry's top professional bodies for unmatched engineering, durability, security and quality.

## MADE TO LAST YEARS

The lifespan of the Roto NT hardware is 10 years, which translates into 20,000 cycles of opening, tilting and closing. Such service life is achieved by using a high-quality metal component that undergoes three-phase application of: 1) zinc, 2) chromate film with nanoparticles and 3) finishing with additional outer protective coat of RotoSiNano.

## ROTO SWING HANDLES

With Roto Swing Handles, you define the personality of your windows by choosing the colours and technical variations. The following Roto Swing handle variants are available for equipping your windows to help you meet individual security and comfort requirements:

### Lockable 40 Nm

Equipped with turn cylinder for locking and unlocking; suitable as child safety lock



### Push-to-open

Prevents forcible displacement of the hardware from the outside; operates upon pressing the button



# Roto NT Lock System



## RELIABLE LOCKING SYSTEM

Thanks to shock-absorbing plastic clips and rubber inserts in a joint between the frame and the scissor hinges, you can operate a window smoothly without any hassle. Other innovations include:



Roto's multi-point security system with perimeter locking system and patented Clip & Fit System



Wind-proof closure mechanism that prevents window from being closed by the strong wind gusts



Burglary-inhibiting anti-jimmy device in horizontal Tilt & Turn striker



Operating hardware in a window frame holds sash up to 330 lbs with regular hinges and 150 lbs with hidden hinges



# Cardinal IG Double & Triple-Pane



Cardinal IG's glass sealed units are a guarantor of exceptional quality, thermal performance and durability. Their sealed units come with a warranty of up to 25 years in comparison with an average market warranty of 12 years. We offer two configurations: **tempered** and **laminated** glass.

## TEMPERED GLASS

Tempered glass is annealed glass that has been heat treated to harden and strengthen it, making it approximately 4 to 5 times stronger. It's often called safety glass because it breaks into small pebble shaped pieces like a car's side glass after an accident.



Annealed Glass

vs.



Tempered Glass

## LAMINATED GLASS

Exceptional security, safety and soundproofing are one of the key advantages of installing Laminated Glass. It's made of two or more plies of glass with a vinyl interlayer between, what allows the glass to hold up a greater impact than other types of glass. Other advantages of laminated glass include:



Laminated Glass



Protective layer blocks 95% of the UV-light transmission



Multi-layered form provides a strong barrier against forced entry



Higher impact resistance protects the glass from windstorms

## NATURALLY CLEAN GLASS

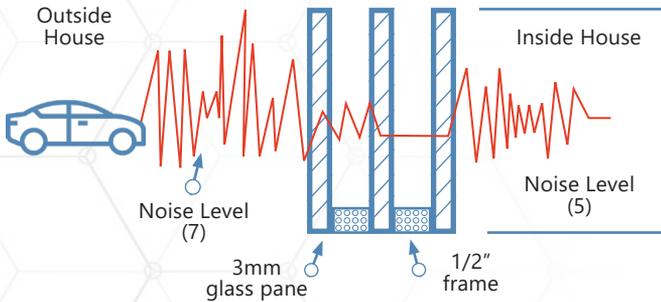
The titanium dioxide layer of the Cardinal's Neat® glass absorbs the sun's UV rays to loosen dirt so water can rinse it away, leaving windows virtually spotless. It works even on cloudy days, as 80% of UV radiation gets through the cloud cover.



## NOISE REDUCTION GLAZING

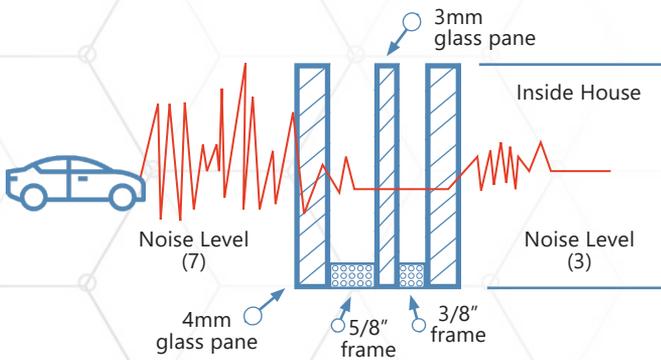
Noise pollution is defined by harmful impact on both physical and psychological wellbeing of a person; constant exposure to high levels of noise may lead to increased stress, anxiety, blood pressure and develop chronic vascular diseases. A common misconception around

soundproof glass is that standard triple glazing, even though having three panes of glass, significantly reduce noise than double acoustic glazing. In fact, if not appropriately treated, installing two-three panes of glass can actually amplify the noise and surface vibration.



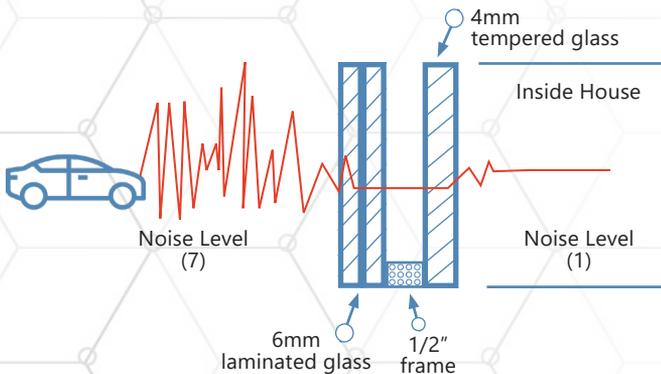
### Standard Triple Pane

Same thickness glass pane installed on same distance.



### Quiet Triple

Noise reduction achieved by installing glass panes with variable thickness on various distances.



### Laminated Glazing

These units deliver the best performance when it comes to soundproofing.

# True Bespoke Windows

## Glazing Performance

Comfort, energy savings and aesthetics are all important factors to consider when choosing windows. Refer to our table to select the best glass type.

ENDUR™ Ig Spacer		U-Value Argon	R-Value Argon	Shading Coefficient	Solar Heat Gain	Visible Light Transmission	Ultraviolet Light Fading	Ultraviolet Light Transmission
Dual Pane	Clear-Clear	2.73	2.08	.89	.78	.78	75%	58%
Dual Pane	LoE272 - Clear	1.42	4.00	.89	.37	.41	55%	16%
Dual Pane	LoE366 - LoE i89	1.14	5.00	.31	.27	.27	41%	5%
Triple Pane	Clear - Clear - Clear	1.65	3.45	.81	.71	.71	68%	49%
Triple Pane	LoE272 - Clear - Clear	1.08	5.26	.44	.36	.38	50%	14%
Triple Pane	LoE272 - Clear - LoE180	.74	7.69	.43	.33	.37	44%	8%
Triple Pane	LoE272 - LoE180 - LoE i89	.64	9.09	.41	.32	.36	43%	8%
Triple Pane	LoE366 - LoE180 - LoE i89	.64	9.09	.27	.24	.24	35%	2%

\* Terms to know:

### U-VALUE

Represents the heat flow rate through a window expressed in thermal units, using winter weather conditions of -17°C outside and 21°C inside. The smaller the number, the better the window system is at reducing heat loss.

### R-VALUE

The higher the R-Value, the more efficient the window is in reducing winter heating costs. (This number is the inverse of U-Value.)

### SOLAR HEAT GAIN COEFFICIENT - (SHGC)

The amount of solar radiation that enters a building as heat. The lower the number, the better the glazing is at preventing solar heat gain.

### SHADING COEFFICIENT

Measures the total amount of heat passing through the glazing (total solar heat transmittance) compared with a single clear glass. The lower a window's solar heat gain coefficient or shading coefficient, the less solar heat it transmits, and the greater its shading ability.

### FADING TRANSMISSION

The portion of energy transmitted in a spectral region from 300 to 700 nanometers. This region includes all of the ultraviolet energy and most of the visible spectrum and will give the best representation of relative fading rates. The lower the number, the better the glass is for reducing the fading potential of carpets and interior furnishings.

# Finishing Touches



All products have been made with the latest innovations in windows and doors manufacturing. This means your windows and doors will look as good as new throughout their lifetime.

With a choice of internal and external colours and handles, you have the flexibility to truly complement the décor of your home.

## WINDOW HANDLES



Natural Silver



Middle Bronze



White



Natural Black

# RENOLIT

## Exofol FX Exterior Film



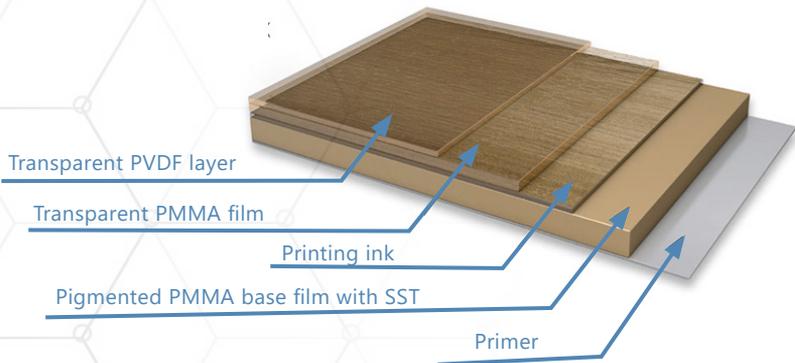
### The Ultimate Exterior Film

Renolit's plastic films have long been labeled as a hallmark of high quality, especially the EXOFOL FX Exterior Film. Designed for harsh tropical and subtropical climates i.e. Australia, North America and South East Asia, the film tends to retain its gloss, colour and protective properties throughout the service life.



### Multi-layered structure

A multi-layered structure of the exterior film makes it dirt-repellent and therefore easy to clean, while rigidity of the inherent components makes it more resilient to scratches and other external forces. All Renolit EXOFOL FX products come with a 20 years warranty.



# Faux Wood Blinds



## Resistant to Moisture

Wood blinds have one major disadvantage when it comes to moisture and heat: the protective finish wears off the wood, leaving it exposed to environmental conditions. Excessive heat and sunlight can also damage wood causing it to fade. Faux wood blinds, on the other hand, have a much higher degree of resistance to moisture and heat.



## Easy to Clean

You can clean the wood faux blinds by simply wiping the dust off of the blades or giving them a quick rinse with a hose if needed. They're 100% water proof.



## Long-lasting and Durable

Once you installed, the blinds will preserve their natural colour and look for years to come. We call it a smart investment given their durability, high resistance to humidity and heat, especially when you can also refinish them if needed.



## Variety of colours and styles

Faux wood blinds are available in many different colours and sizes. You can have blinds custom made to please your taste. This adds a great deal of flexibility to your decorating options.



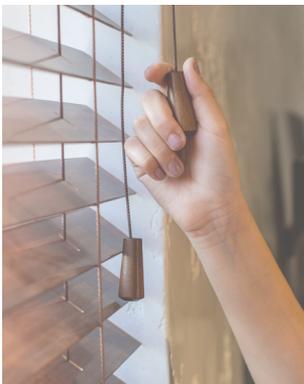
## Environmentally Friendly

By purchasing faux wood blinds, you are contributing to a reduction of the trees being cut down. You can have an option of purchasing the recycled blinds and live even greater 'green' life. These blinds are also fully recyclable, so you can help reduce the amount of construction waste in your future refurbishment projects.



## Attractive in Appearance

Though faux wood blinds are cheaper than wood, they still inherit the same aesthetically pleasing appearance as their wood counterparts. Many people have difficulties in distinguishing between real and faux wood blinds.



# Roller Blinds



## Flexible

Various combinations of the roller blinds make them pretty flexible. For instance, if you wallow in hesitation between reflective and block out blinds, why not consider installing a dual roller blind? By having two blinds installed on the same bracket – a sunscreen blind and a block out blind, for example, will give the benefits of a sunscreen blind when you need it and a block out blind when you need little bit of privacy!



## Easy to Operate

Roller blinds can be operated by a chain drive or fully motorized. If you install a chain drive or motorized roller blind, you can actually link a number of blinds together, and open or close multiple blinds at once. That's what makes them so versatile and effortless to operate.



## Durable

Roller blinds use durable steel tubes, strong, high-quality fabrics and top of the line operating systems to ensure they operate the same as new even after being in use for years.



## Aesthetically Appealing

Choose from a huge range of colours, patterns and fabrics, including translucent, sunscreen and block out fabrics to match the interior of your house and create a charming atmosphere.



# Tilt & Slide Doors

High quality construction, thermal integrity and ease of use are all standard characteristics of our tilt and slide doors. At first glance, they are visually similar to regular patio doors. However, they bring the functionality of tilt and turn windows to patio doors. Advanced German made frames offer strength, durability and low maintenance

## Advantages of Tilt & Slide Doors



### Perfect Usage

The technological advancements enable a flawless functionality.



### Highly Customizable

The ability to have timber patterns and different colours inside and out.



### Thermal Properties

Greater thermal efficiency due to its frame structure and EPDM rubber seals.



### Durable

Long usage and structural stability from high-quality profiles.



### Top Security

Considerable safety level guaranteed by four anti-burglary bolts as standard.



### Noise Reduction

Considerable sound insulation that guarantees acoustic comfort.



Closed Position



Tilted Position



Turned Position



Patricia  
Canmore, AB  
10/10

*"Bespoke Windows installed truly bespoke windows. We needed a total of 22 new windows in our house, and they managed to complete the entire project without any flaws."*



Jayna  
Calgary, AB  
10/10

*"Amazing experience with Bespoke Windows. Very professional, responsive, and the windows were done perfectly. I'd recommend them."*



**Contact us now to  
schedule your free  
in-home consultation**



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**BESPOKE**  
WINDOWS.ca

Bespoke Windows is a Calgary-based replacement company of premium windows and doors for the residential market.

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