

# TILT & TURN SERIES VINYL WINDOWS & DOORS





# STUNNING, SLEEK, BRIGHT

Our tilt-and-turn doors and windows feature sophisticated technology for truly outstanding fenestration.

- Intelligent design for maximum brightness and unimpeded views: straight sash profile, slightly beveled frame profile
- Doors and windows with a unified and consistent look make them easy to pair with existing windows
- Doors with or without visible hinges that come in various sizes (up to 4.1" or 105 mm)
- Invisible spacer for impeccable esthetics
- Frame and sash geometry compatible with visible and invisible hinges
- The ideal solution for creating large windows that open





# TWIST™ WINDOWS AND DOORS ARE TURNING HEADS IN NORTH AMERICA!

Inspired by high-performance European tilt-and-turn designs, we've used our sophisticated technology to create a diverse array of attractive window and door solutions that meet North American building requirements. To incorporate its exciting, unified look in your next residential or commercial project, just turn to TWIST from Climate Solutions.

# OPTIONAL ARCHITECTURAL HARDWARE



Our high-quality Tilt&Turn hardware system is suitable for the most versatile window shapes made of PVC with 16mm hardware groove. All over the world, it sets standards as a technology and market leader, and fulfills the most stringent demands in terms of security, ease of use, durability and design.

All of our components are perfectly tailored to each other and offer almost unlimited combination possibilities, thus enabling customers' various requirements to be met as flexibly as possible. All of the Tilt&Turn hardware is engineered and made in Germany.

Roto NT Security



## COLORS



TITANIUM



BRONZE



SILVER



GREY/  
BROWN



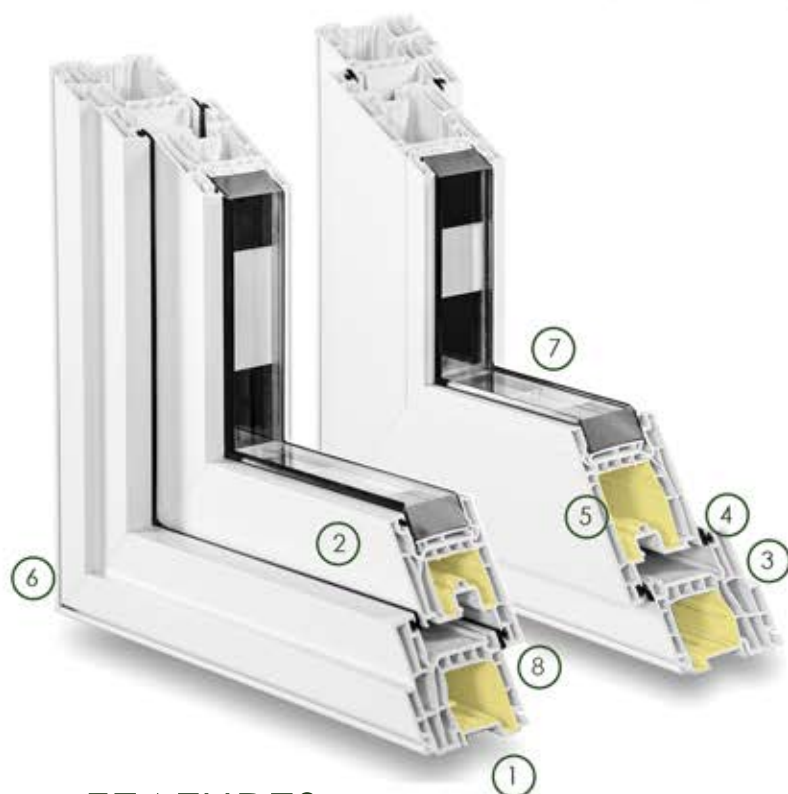
BRASS  
MATTE



WHITE

Climate Solutions tilt-and-turn doors and windows are designed to meet the latest energy efficiency standards. They offer hassle-free operation for years to come.

# UNPARALLELED DURABILITY AND EFFICIENCY



## FINISHING ACCESSORIES

Frames are equipped with numerous interior and exterior grooves for a sleek look and no interference with hinges.

## FEATURES

1. 3 1/4" (82.5 mm) PVC frame
2. 2.5 mm exterior walls and interior walls among the thickest on the market, for maximum insulation and durability
3. Multichamber structure (17 chambers in the frame, 13 in the sash) to meet the most stringent performance and energy efficiency standards
4. Continuous double weatherstripping with polymer compression seals to eliminate air and water infiltration
5. Steel reinforcements in the key parts of the frame, sash, and mullion can easily accommodate all sizes
6. Optimized drainage thanks to a pressure balance system and ideally positioned drainage cap
7. Sashes designed to hold and support glass up to 1 3/4" (44.5 mm) thick
8. Door compatible with even the thickest flooring [1.7" (43 mm) clearance]
9. Hardware anchored solidly with steel reinforcements for enhanced durability
10. Multipoint locking system around the entire perimeter for perfect soundproofing and optimum security and airtightness
11. Optional aluminum sill extension for door configurations
12. Spring-loaded screens seamlessly incorporated into the window, for sleek architectural styling







# DOORS AND WINDOWS TO MEET ALL YOUR NEEDS



Turn the handle upwards, and the upper part of the sash tilts slightly to allow safe and easy ventilation.

The opening cannot exceed 4" (130 mm) so there's no danger of intruders or accident risk for children. Even the rain can't find its way into your home!

The window remains open for as long as you like, without ever slamming shut in the wind.



Want to ventilate your room thoroughly or open your door as wide as possible to circulate freely indoors and out?

Simply turn the handle to the horizontal position, and the sash pivots vertically to offer a larger opening.



Turn the handle down, and the tilt-and-turn window will be hermetically sealed. No air leakage, no way for burglars to get in.

# PERFORMANCE

Climate Solutions glass units deliver the ideal energy balance of solar heat control, high visibility and fade protection. With gas filled chambers and Low-E coatings, our windows provide high levels of year-round comfort and energy savings. Plus, they reduce your environmental impact by reducing energy consumption.

Glass	Silver Layers	Gas Filler		2016 ENERGY STAR
Low-E <sup>2</sup> IG Unit	2	Argon	Blocks 84% of sun's ultraviolet rays	With Plus Options
Low-E <sup>3</sup> IG Unit	3	Argon	Blocks 95% of sun's ultraviolet rays	Meets
LoE-i89 IG Unit	5	Argon	U-Factor 0.20 & SHGC 0.25	Exceeds

Multiple combinations of glass packages are available to achieve maximum fenestration results



## THE SCIENCE OF NEAT GLASS

It's not magic but close to it. A variety of different technologies go into manufacturing Neat glass. But the key technology - the one that helps windows stay cleaner longer - is the super-thin coating we apply. Using our patented double-sputtering process, we apply an invisible, durable and permanent coating of titanium dioxide.

## CS Ultra Spacer™

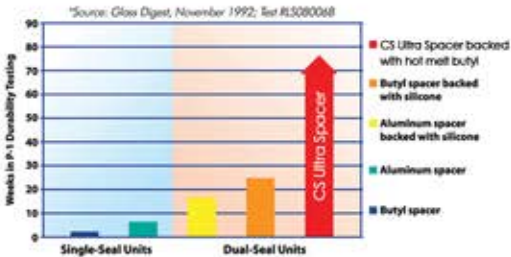
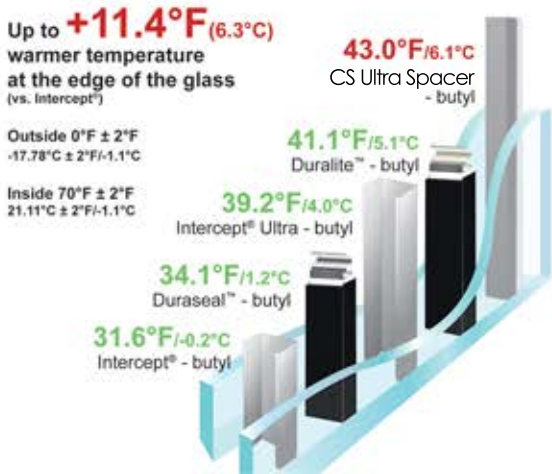
A spacer keeps a window's dual glass panes the correct distance apart for optimal airflow between panes. Too much or too little airflow can affect the insulating glass efficiency. The design and material of the spacer can also make a big difference in the ability to handle expansion and contraction and thus reducing condensation. All of our Tilt and Turn product(s) are equipped with our high performance CS Ultra Seal.

High-Performance Low-e2 & Low-e3 Coating

Argon Fill

CS Ultra Spacer

Clear Glass



# CONFIGURATIONS



Single or combined tilt-and-turn window



Tilt-and-turn door



Fully opening French door  
(hinges on the sides and astragal)



Terrace door with central mullion  
(option of hinges on the exterior walls  
or on the mullion)

## INTERIOR COLORS



## EXTERIOR PAINT OPTIONS



### CUSTOM COLORS



Don't see the exterior color you need?  
Ask your authorized dealer about  
custom exterior paint.

## ENERGY PERFORMANCE

GLASS	U FACTOR (BTU/H SQ. FT. °F)	SOLAR HEAT GAIN COEFFICIENT (SHGC)	ENERGY EFFICIENCY (EE)	ZONES (2015)
<b>TILT-AND-TURN WINDOW</b>				
Double, low-E argon, 7/8", warm-edge spacer	0.27	0.46	32	1, 2
Double, low-E argon, 7/8", warm-edge spacer, reinforced window	0.28	0.46	31	1, 2
Triple, low-E argon, 1 5/8", warm-edge spacer,	0.18	0.37	38	1, 2, 3
Triple, low-E argon, 1 5/8", warm-edge spacer, reinforced window	0.19	0.37	37	1, 2, 3
<b>TILT-AND-TURN DOOR</b>				
Double, low-E argon, 7/8", warm-edge spacer, reinforced door	0.28	0.42	29	1, 2
Triple, low-E argon, 1 5/8", warm-edge spacer, reinforced door	0.19	0.34	35	1, 2, 3

## AIR-WATER-STRUCTURAL PERFORMANCE

	SIZES TESTED MM (IN.)	NORTH AMERICAN HARMONIZED STANDARD AAMA/WDMA/CSA 101/1.5.2/AA440-08
Tilt-and-turn window	1220 x 1830 (48 x 72)	CW-100-DAW
Tilt-and-turn door	1000 x 2100 (39 x 82)	CW-100-DASHD



### CLIMATE SOLUTIONS SYSTEM WARRANTY

Climate Solutions provides a Limited lifetime warranty on all residential  
PVC profiles.

