



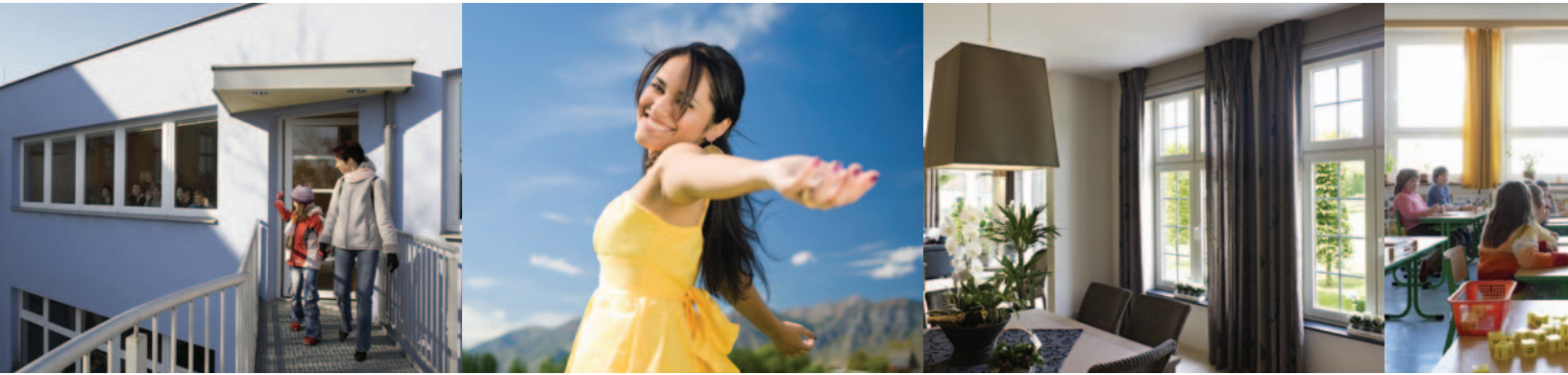
revolution

THE EURO-INSPIRED
WINDOW WITH A
NORTH AMERICAN
ATTITUDE.

RESIDENTIAL REMODELING • NEW CONSTRUCTION • COMMERCIAL

revolution

Tilt & Turn™



You Say You Want a Revolution™

The Revolution has begun with a bold, modern design that comes with a classic European pedigree. Revolution starts with a time-tested European tilt and turn concept and is infused with the best in North American performance engineering.

With seven thermal chambers in both the frame and in the sash, IG capability of up to 1 5/8" (40mm) and with the Innergy Rigid Thermal Reinforcement technology, the Revolution Tilt and Turn window system can achieve thermal performance levels in the rare and elusive range of R-7 and beyond – without the use of Krypton.

Put it all together and you get a Revolution in style, thermal capability, and over-all performance. Revolution is ideally suited for commercial and high-end residential applications where extreme performance is not just a specification but an expectation.

AAMA Wind Load, Air and Water infiltration resistance testing results indicate capabilities in excess of the requirements for Commercial Window ratings of C-100.

An Open & Shut Case for Performance

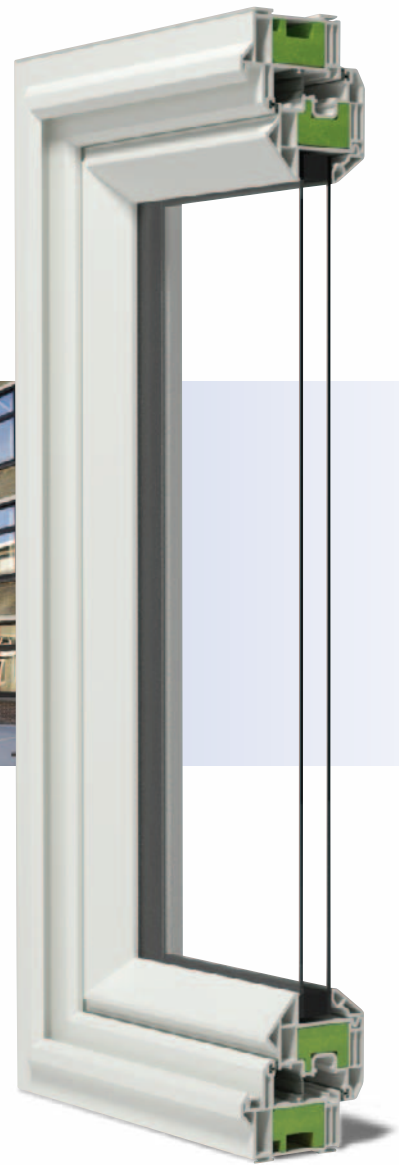
Tilt it in. The top of the sash tilts in for secure, indirect ventilation. No rain. No wind gusts. And no unwanted nature, thanks to the integral screen feature. Revolution is the first tilt and turn window system with an insect screen system incorporated into the design!

Swing it open. The entire sash opens inward for a classic European look and feel. With full access to both sides of the glass, cleaning is a breeze, and offers easy egress in emergencies.

Lock it shut. The sash locks with a single movement of the handle. The Revolution Tilt and Turn system incorporates the latest developments and performance enhancements of the European hardware features including the full perimeter multi-point locking system resulting in an incredibly secure and structurally sound window.



*design.
for performance.*



Form. Function. And Full of Features.

Revolution is an architect's dream. Form and function are integrally balanced to create a triumph of high-tech engineering. Using computer modeling to optimize structural integrity, thermal performance, and functional durability, the result is a leap in patent-pending design technology.

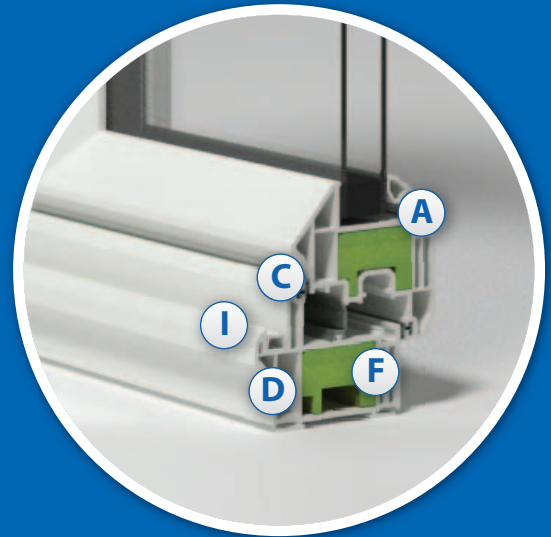
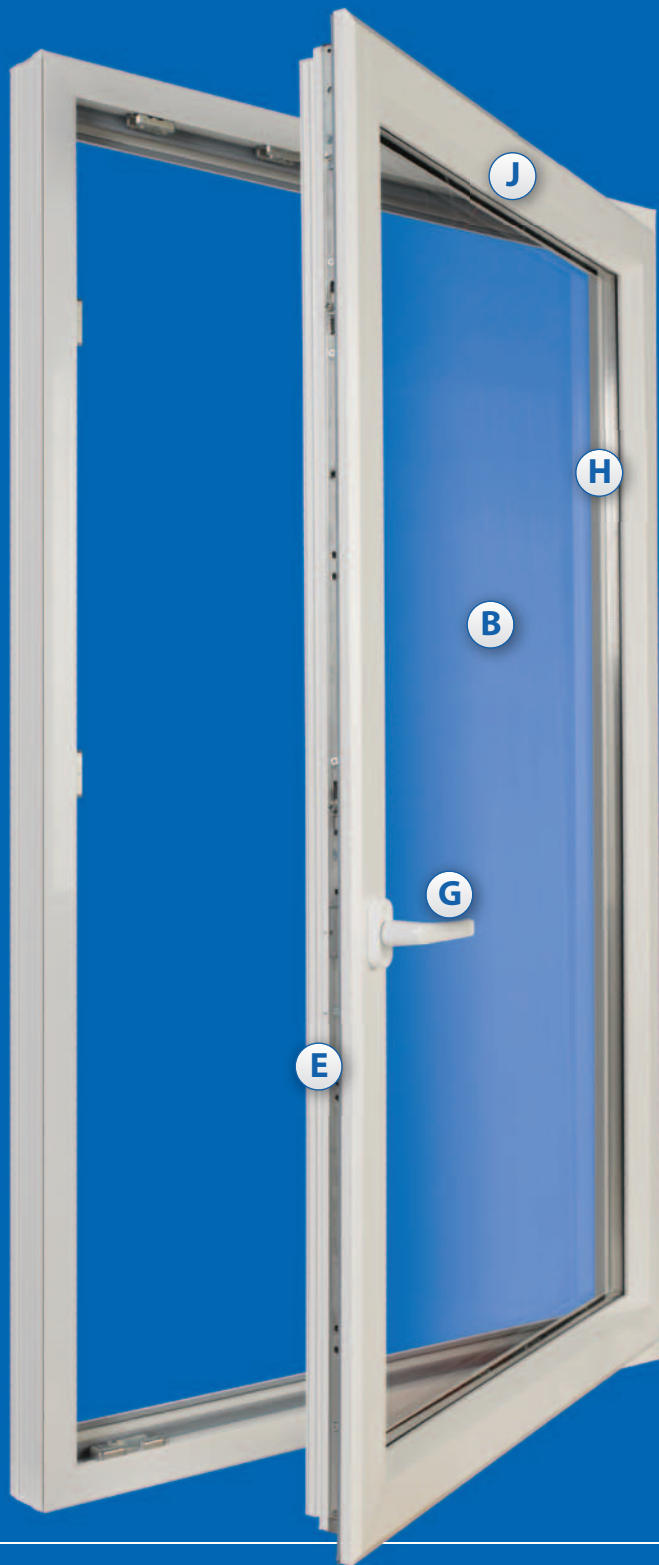
- **Multi-functional sash operation: tilt, swing and lock with just one hand**
- **Full perimeter interior and exterior weather seals, plus a third internal seal for unrivaled air and water infiltration resistance**
- **Low-profile styling for minimum bulkiness and maximum daylight**
- **Structurally bonded glazing system secures the glass for extreme conditions**
- **Integrated screen system enhances appearance and improves water resistance**
- **Availability of Innergy™ Thermal Reinforcement for maximum thermal resistance**
- **A broad range of architectural colors, woodgrain patterns, and metallic finishes**
- **Compatibility with available swing and sliding door systems**
- **A full complement of installation panning accessories**

A Revolution in Inspired Applications

Revolution exceeds expectations in applications where a premium product is specified and extreme performance is required. Whether in commercial, institutional or high-end residential uses, customers will appreciate the Euro look and feel, as well as the North American function and performance.

With the advanced use of thermal chambering, Revolution functions in perfect harmony with today's high-performance glass packages to easily achieve NFRC Thermal values of R-5, R-7 or more without expensive options such as Krypton, or films.

Revolution is designed and tested to meet or exceed all applicable NFRC, AAMA and ASTM standards using certified components for the singular purpose of assuring a long life of performance and customer satisfaction.



- A** Seven chamber seal and seven chamber sash design
- B** Flexible glass package options with IGU thickness up to 1 5/8" (40 mm)
- C** Sloped, cascading sash and frame design with patent-pending drip edge
- D** Continuous triple weather seal design with compression seals
- E** Full perimeter multipoint lock system
- F** Designed to incorporate Innergy™ Rigid Thermal Reinforcements and other reinforcement options
- G** Keyed hardware options
- H** Unique sash and frame geometry allowing for hidden hinges
- I** Integral screen track
- J** Wide selection of standard interior and exterior finish options
- K** Tilt in for ventilation, swing open for wide-open access

features benefits

PERFORMANCE FEATURES	BENEFITS
Structural glazing - the glass is fully bonded to the sash members	Increased structural and hurricane impact performance, improved water resistance and decreased air infiltration under high wind loads
Flexible glass package options with IGU thickness up to 1 5/8" (40 mm)	Improved thermal performance of U 0.167 (R7) and above
Sloped cascading sash and frame design with patent pending drip edge	Improved water management - exceeds AAMA requirements
Continuous triple weather seal design with polymer compression seals	Improved thermal, water and sound performance
Seven chamber frame and seven chamber sash design	Improved thermal, water and sound performance
Full perimeter multipoint lock system	Improved thermal, water, security, air infiltration and sound performance
Designed to incorporate INNERGY™ Rigid Thermal Reinforcements and many other reinforcement options	Design allows for multiple performance and cost options
DESIGN FEATURES	BENEFITS
Beveled frame and sculpted sash design	Sleek, stylish appearance allowing maximum daylight & sightlines
Innovative frame design incorporating integral accessory receptors	Accommodates multiple commercial installation methods including panning systems and masonry clips
Integral screen track	Screen blends seamlessly into the window for ideal architectural silhouette
Wide selection of standard interior and exterior color options featuring Sunshield® and Solex® technologies	Superior design flexibility and integrity with exceptional weathering performance
Complementary door systems	Aesthetically integrates windows and doors for a unified look
Available sash cross bar and frame center bars	Additional design and installation flexibility
HARDWARE FEATURES	BENEFITS
Designed to accommodate many hardware systems	Maximum hardware style and function flexibility
Keyed hardware options	Windows can be keyed for single operation only: open for ventilation only or full opening for complete access
Unique sash and frame geometry allowing for hidden hinges	Seamless interior aesthetics
Hardware is designed to be secured into reinforcements	Increased durability and performance

revolution Performance Data

Window Style: Dual Action Tilt and Turn

AAMA Rating (NAFS)..... C-100
 Air Infiltration <.02 CFM/SF @ 6.24 PSF
 Water No Leakage @ 15.00 PSF
 Structural +/- 150 PSF

Thermal U-Factors

GLAZING	GLASS CONFIGURATION	GAS	U Value	R Factor
Double	DS SB70 #2/DS EPS #4	ARGON	0.208	5
Double	DS SB70 #2/DS EPS #4	KRYPTON	0.195	5
Triple	DS SB70 #2 AND #4/DS EPS #6	ARGON	0.143	7
Triple	DS SB70 #2 AND #4/DS EPS #6	KRYPTON	0.138	7

Hardware Options

Tilt and Turn	Multi-Point Hardware	Hidden Hinges	Visible Hinges	Handle with Key Lock	Visible Handle Material / Color / Finishes Options
Dual Action	Standard	Standard	Optional	Optional	Standard

		INTERIOR	EXTERIOR
	Architectural Grey	X	X
	Colonial White	X	X
	Bronze	X	X
	Cocoa Brown	X	X
	Grey Metallic	X	X
	Hunter Green	X	X
	Chocolate Brown	X	X
	Calvados Cherry	X	
	Cherry	X	
	Dark Oak	X	
	Light Oak	X	
	Maple	X	
	Real Pine Wood Laminate	X	
	Winchester Oak	X	

Inside & Outside: The Revolution is in Color

Mix, match and make magic with the colors of Revolution.

No matter what the design calls for, Revolution provides today's richest saturated colors, stunning natural woodgrain finishes, and metallic architectural finishes to create the perfect inside/outside solution.



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