

YOUR WINDOW TO THE WORLD



GRANDURA®
for the way you live



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YOUR WINDOW TO THE WORLD



GRANDURA®

for the way you live

TO CREATE SOMETHING TRULY EXCEPTIONAL YOU CAN'T JUST FOCUS ON TECHNOLOGY, YOU HAVE TO PAY ATTENTION TO BEAUTY AND THAT'S THE SPIRIT BEHIND EVERY WINDOW WE CREATE. GRANDURA® WINDOWS ARE DESIGNED TO EXCEED YOUR EXPECTATIONS BECAUSE WE UNDERSTAND THAT BEHIND EVERY GRANDURA WINDOW THERE'S YOU.

DESIGN AND ENERGY PERFORMANCE

BENEFITS OF VINYL

INCREASED COMFORT - Our high quality vinyl offers superior insulation for excellent thermal performance and year-round comfort.

EASY OPERATION - Designed with premium components to ensure smooth operation and consistent high performance.

WEATHERABILITY - Heavy duty solid vinyl lineals provide optimum strength and durability to withstand some of the toughest climates.

ENERGY EFFICIENCY - Vinyl's low thermal conductivity works in tandem with our advanced glass packages to provide greater energy efficiency.

LOW MAINTENANCE - Color-through vinyl frames and sashes will never rot, peel, pit, flake or require painting.

VALUE - **Grandura** has been specifically designed using the industry's most advanced technologies to help lower utility bills and increase the value of your home.

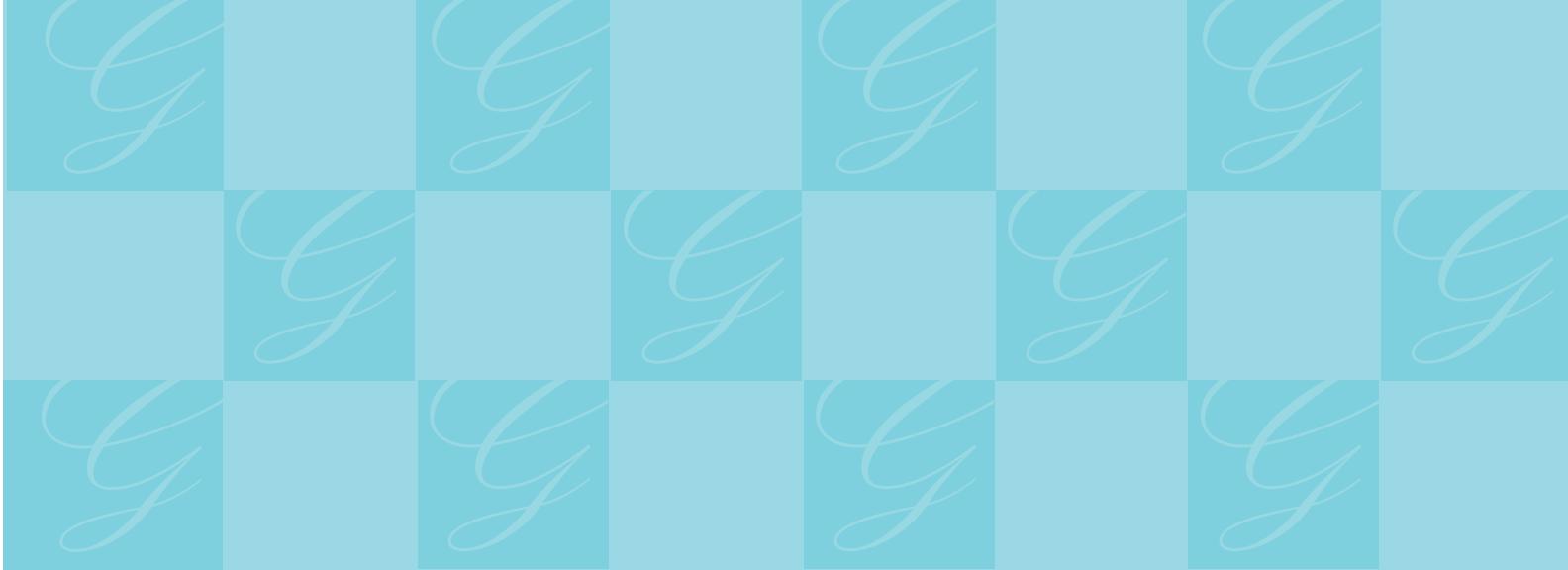
ENERGY LOSS THROUGH VARIOUS MATERIALS



THERMAL CONDUCTIVITY
BTUs which pass through a square foot of material per hour

Testing shows that vinyl windows and doors are comparable to wood in thermal efficiency although vinyl windows are made to last a lifetime.

Note: Data calculations are based on Frame 3.0 software.



GRANDURA®

for the way you live

GRANDURA WINDOWS AND DOORS ARE YOUR ENTRYWAY TO ELEGANCE WITH THEIR DISTINCTIVE DETAILING AND UNCOMPROMISING QUALITY THAT BEGINS WITH THE FINEST VINYL FRAMES AND SASHES. THESE BEAUTIFULLY CRAFTED PREMIUM COMPONENTS ARE DESIGNED TO PROVIDE OPTIMUM COMFORT, STRENGTH AND ENERGY EFFICIENCY.

PREMIUM FEATURES

CAREFUL CONSIDERATION HAS GONE INTO EVERY EXQUISITE DETAIL OF A GRANDURA WINDOW. HOMEOWNERS WILL APPRECIATE ITS COMPONENTS AND FEATURES, WHICH CULMINATE IN A DESIGN OFFERING SUPERIOR STRENGTH, STYLE AND INSULATION.

DURAWEELD
3 1/4" FUSION-WELDED
BEVELED FRAME AND
SCULPTED SASH

INVENT
DELUXE VENT LATCHES

CACHET
FLUSH MOUNT
TIILT LATCHES

TRUELINE
PIVOT ALIGNMENT SYSTEM
WITH 3/4" STAINLESS
STEEL CONSTANT FORCE
BALANCE SYSTEM

**CERTIFICATION AND
CLASSIFICATION**
Grandura windows and
doors undergo stringent testing
procedures to ensure they
meet the industry's highest
performance standards.

ENERCOR
MULTI-CHAMBERED
FRAME AND SASH

**EXTRUDED ALUMINUM
SCREEN FRAME
(NOT SHOWN)**

INTEGRITYLOK
HIGH SECURITY
LOCKING MECHANISM

EASYGLIDE
SCULPTED LIFT HANDLE

TRISLOPE
STEPPED ANGLED SILL
WITH TANK DRAINAGE
SYSTEM



QUALITY YOU CAN SEE

DISCOVER THE LATEST ADVANCEMENTS IN WINDOW ENGINEERING AS YOU EXPLORE THE IMPECCABLE CRAFTSMANSHIP OF A GRANDURA WINDOW. FROM SILL TO SASH, EACH COMPONENT REPRESENTS A HIGH LEVEL OF QUALITY AND PRODUCT EXCELLENCE.

DURAWELD

FUSION-WELDED BEVELED FRAME AND SCULPTED SASH
Each corner, frame and sash is fusion-welded for unrivaled durability and a weathertight seal. Plus, the sculpted sash is a stylish design feature that enhances the frame's beauty.



INVENT

DELUXE VENT LATCHES
Sturdy and secure, these deluxe vent latches help guard against intruders while providing optimum ventilation.



INTEGRITYLOK

HIGH SECURITY LOCKING MECHANISM
This cam lock and keeper is made from highly durable zinc. Elegantly designed, it provides optimum security and assures a tight, weatherproof seal.



CACHET

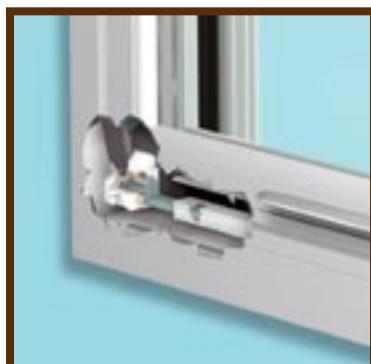
FLUSH MOUNT TILT LATCHES
These tilt latch assemblies are recessed into the frame to maintain the window's clean interior lines.



TRUELINE

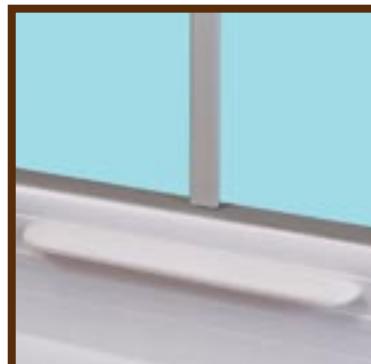
PIVOT ALIGNMENT SYSTEM

This exclusive hinge design attaches the sash to the balance on the frame, creating perfect alignment while allowing the sash to tilt in for cleaning.



EASYGLIDE

SCULPTED LIFT HANDLE
This sleek, sculpted handle is extruded into the sash for superior durability and assures easy operation for the life of the window.



ENERCOR

MULTI-CHAMBERED FRAME AND SASH

The multiple chambers act as a highly effective thermal barrier and greatly increase the window's durability and strength.



TRISLOPE

STEPPED ANGLED SILL WITH TANK DRAINAGE SYSTEM

This innovative sloped sill design helps prevent air and moisture penetration by drawing water away from the window.

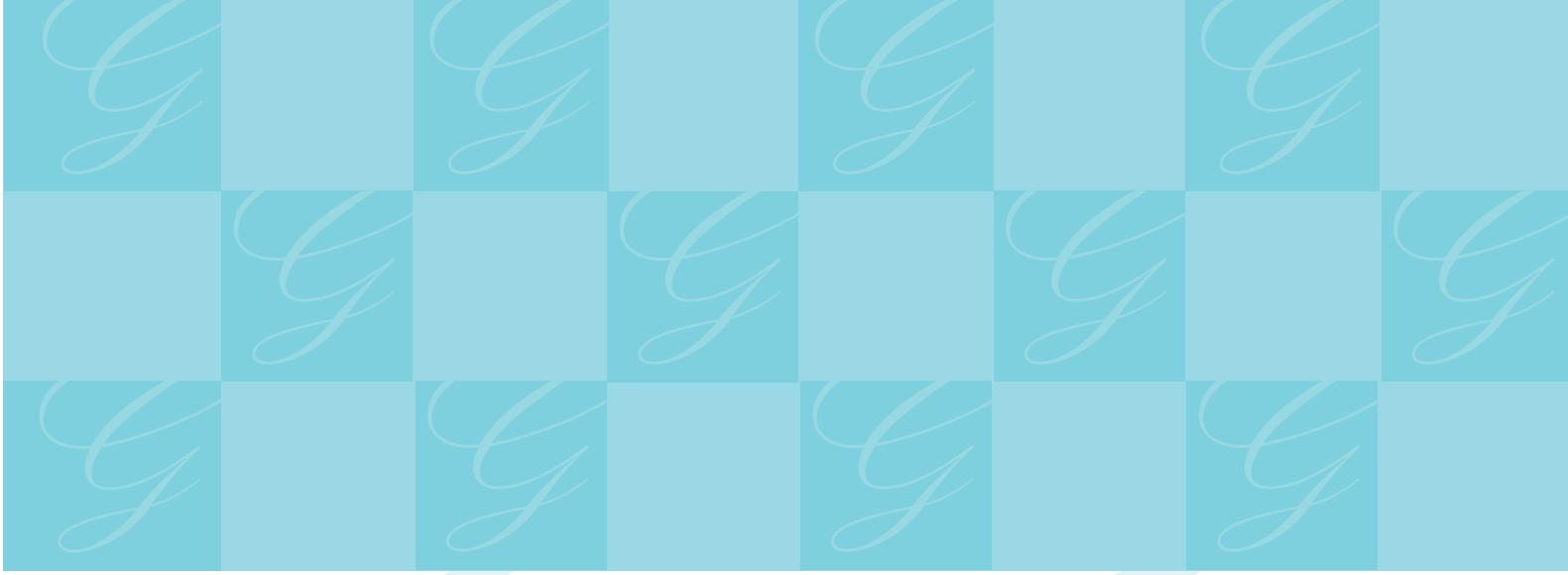


GLASS AND ENERGY PERFORMANCE

LoĒ³-366[®] ULTIMATE GLASS PERFORMANCE

- The ultimate in solar heat control, fading protection and visibility.
- Provides the highest level of year-round comfort and energy savings.
- Patented 12-layer clear-coat formula with three layers of silver reflects the sun's heat without spoiling the view.
- Blocks out 95% of harmful UV rays to keep furniture, flooring, carpets and curtains looking like new.
- The perfect glass for all regions of the country.
- Provides warmer wintertime inside glass surface temperature, helping reduce condensation and promote a healthier home.





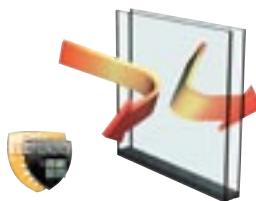
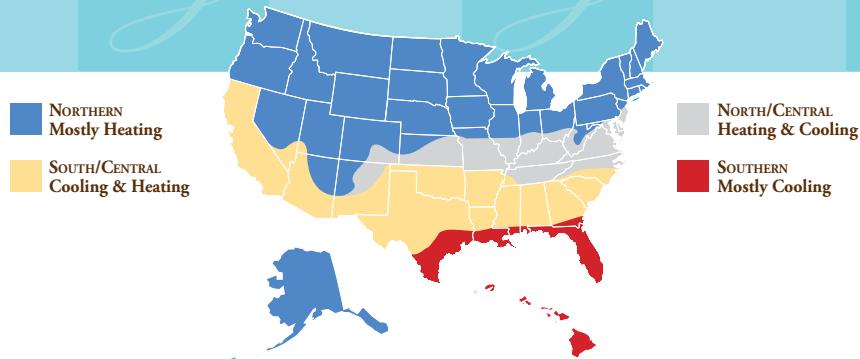
GRANDURA®

for the way you live

LOOK PAST GRANDURA'S BEAUTIFUL, UNOBSTRUCTED VIEWS TO FIND SOME OF THE INDUSTRY'S MOST ADVANCED GLASS PACKAGES WITH ENERGY-EFFICIENT FEATURES THAT ENSURE A COMFORTABLE HOME AND SIGNIFICANTLY REDUCED UTILITY BILLS.

THINGS TO CONSIDER

WHEN CHOOSING WINDOWS FOR THEIR ENERGY EFFICIENCY, IT IS IMPORTANT TO SELECT A GLASS PACKAGE THAT MEETS THE PERFORMANCE REQUIREMENTS FOR YOUR CLIMATE ZONE. AS SUCH, ALL OF GRANDURA'S INNOVATIVE GLASS PACKAGES OFFER EXCEPTIONAL ENERGY EFFICIENCY AND ARE DESIGNED TO ACCOMMODATE THE PARTICULAR NEEDS OF HOMEOWNERS THROUGHOUT THE UNITED STATES.



LoĒ³-366, a Definite Advantage

In summer months, LoĒ³-366 glass keeps cool air inside while keeping hot air outside, reducing solar heat gain by 64% compared to ordinary glass.

In winter, LoĒ³-366 glass keeps warm air in and cold air out for optimum comfort, efficiency and humidity control.

Year-Round, LoĒ³-366 glass also blocks out 95% of UV rays, which can fade carpet, draperies and artwork.

Grandura vinyl products are designed to meet specific GreenSpec® criteria set forth by BuildingGreen, Inc.

- Pre-consumer recycled content
- Exceptional durability and low maintenance requirements
- Reduced heating and cooling loads
- Products do not release significant pollutants into a structure
- Noise reduction



Our 30% Energy Savings Pledge*

In addition to providing beautifully designed, high performing window systems, we pledge a savings of at least 30% of "Energy Consumption" for heating and cooling of a single family dwelling with a complete installation of Grandura windows.

* This pledge is based on energy (fuel) consumption, not the cost of the energy, and is valid for a 12-month period.

**FOR ADDED SECURITY AND PEACE OF MIND,
CONSIDER CHOOSING LAMINATED OR TEMPERED GLASS.**



TEMPERED GLASS (SAFETY GLASS)

- Four to five times stronger than normal glass.
- Provides protection against break-ins and penetration from airborne debris during violent winds.
- When broken, glass shatters into small, oval-shaped pebbles, eliminating the danger of sharp edges.

LAMINATED GLASS

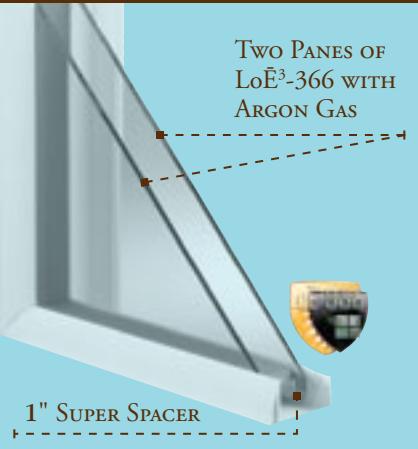
- For the ultimate in efficiency and security, choose laminated glass.
- Blocks over 99% of the sun's damaging UV rays.
- For added safety, the laminated glass will not fall out inside the home if the window is struck with force.
- Helps reduce noise transmissions.

GLASS PACKAGES

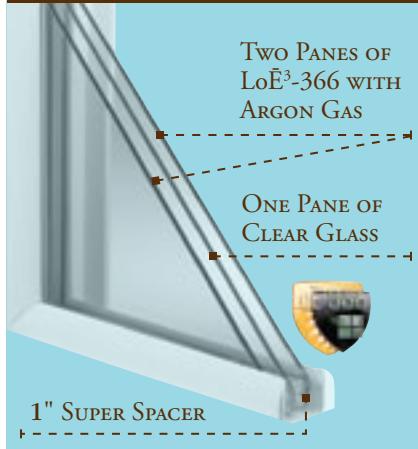
THE MARK OF QUALITY IN A PREMIUM WINDOW IS HOW WELL IT CAN INSULATE AND PROTECT AGAINST THE RAVAGES OF HEAT, COLD AND ULTRAVIOLET DAMAGE.

GRANDURA INCORPORATES THERMALLY ADVANCED GLASS TO PROVIDE SUPERIOR ENERGY EFFICIENCY, VISIBILITY AND YEAR-ROUND COMFORT IN ALL CLIMATES.

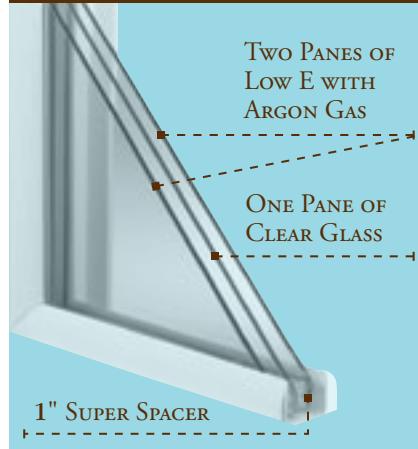
IsoSHIELD ONE DOUBLE PANE



IsoSHIELD TWO TRIPLE PANE

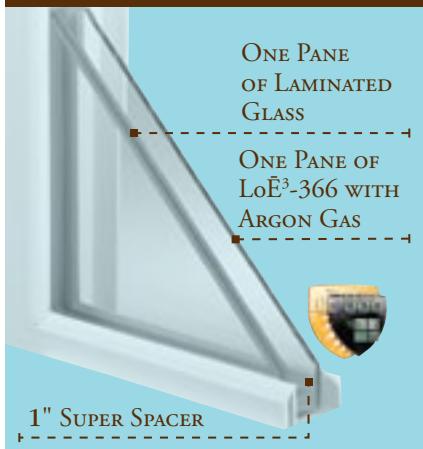


IsoSHIELD THREE TRIPLE PANE

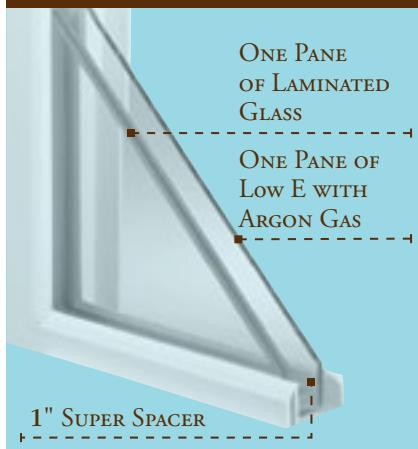


This is Grandura's standard glass package.

IsoSHIELD FOUR LAMINATED



IsoSHIELD FIVE LAMINATED



1" SUPER SPACER SYSTEM

- Solid silicone foam provides superior energy efficiency.
- Does not conduct energy as quickly as metal spacers.
- Silicone foam is flexible and helps reduce stress cracks.



CHOOSE THE IDEAL GLASS PACKAGE TO SAVE ENERGY,
REDUCE NOISE AND MAKE YOUR HOME MORE COMFORTABLE.

	IsoSHIELD ONE DOUBLE PANE	IsoSHIELD TWO TRIPLE PANE	IsoSHIELD THREE TRIPLE PANE	IsoSHIELD FOUR LAMINATED	IsoSHIELD FIVE LAMINATED
U-Value	0.30	0.23	0.30	0.29	0.30
R-Value	3.33	4.35	3.33	3.45	3.33
Solar Heat Gain	0.19	0.18	0.25	0.20	0.26
Visible Light	0.36	0.34	0.43	0.45	0.49
UV Block	0.95	0.95	0.95	0.99	0.99

All thermal numbers are for Double Hung, no grids, 1" Insulating Glass Unit (IGU).

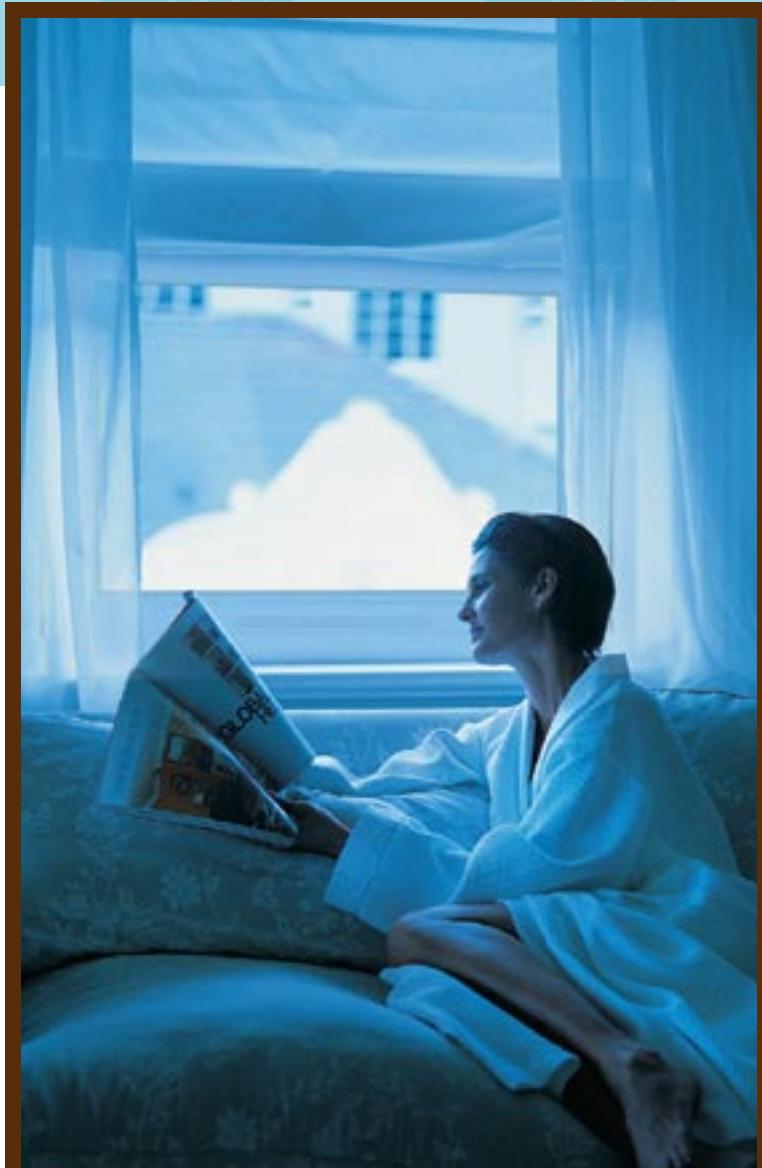
All Grandura glass packages are energy tax credit compliant.



DOUBLE HUNG

A CLASSIC BEAUTY WITH FINE ARCHITECTURAL DETAILING AND LEADING-EDGE THERMAL TECHNOLOGIES, THE GRANDURA DOUBLE HUNG WINDOW OFFERS EXPANSIVE VIEWS AND SUPERIOR PERFORMANCE, PERFECT FOR ANY ROOM IN YOUR HOME.

- Sash tilts-in or lifts-out for safe, easy cleaning and maintenance
- Attractive beveled frame
- Fusion-welded corners
- Interlocking, overlapping meeting rail
- Sculpted lift handle
- $\frac{3}{4}$ " stainless steel constant force balance system
- Dual locks on all Double Hung windows $\geq 28"$ wide
- Multi-chambered frame and sash
- 2-degree, 10-degree triple stepped sloped sill
- Hidden tank drainage system with covered weep holes allows water to drain to the exterior
- Extruded aluminum full-screen frame has fiberglass mesh with memory
- Available in an array of colors with optional woodgrain interiors and decorative glass



EXTERIOR VIEW



INTERIOR VIEW



INTEGRITYLOK HIGH SECURITY LOCKING SYSTEM

This cam lock and keeper is made from highly durable zinc. Elegantly designed, it provides optimum security and assures a tight, weatherproof seal.



INVENT DELUXE VENT LATCHES

Sturdy and secure, these deluxe vent latches help guard against intruders while providing optimum ventilation.



CACHET FLUSH MOUNT TILT LATCHES

These tilt latch assemblies are recessed into the frame to maintain the window's clean interior lines.



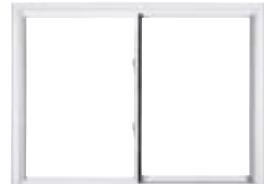
SLIDERS

BEAUTIFULLY CRAFTED USING HIGH QUALITY MATERIALS, SUCH AS ISO SHIELD GLASS PACKAGES THAT ENSURE OPTIMUM SOUND AND THERMAL INSULATION, THESE PREMIUM WINDOWS ARE PERFECT FOR CREATING AN AMBIANCE THAT IS ELEGANT AND INVITING.

- Sash lifts-out for safe, easy cleaning and maintenance
- Attractive beveled frame
- Fusion-welded corners
- Interlocking, overlapping meeting stile
- Multi-chambered frame and sash
- Hidden tank drainage system with covered weep holes allows water to drain to the exterior
- Extruded aluminum full-screen frame has fiberglass mesh with memory
- Available in an array of colors with optional woodgrain interiors and decorative glass



2-LITE SLIDER

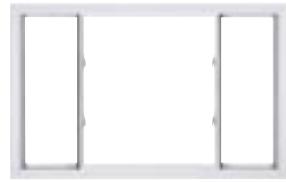


EXTERIOR VIEW

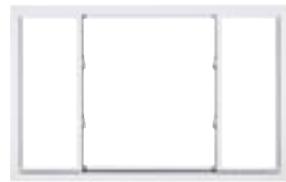


INTERIOR VIEW

3-LITE SLIDER



EXTERIOR VIEW



INTERIOR VIEW



INTEGRITYLOK HIGH SECURITY LOCKING SYSTEM

This cam lock and keeper is made from highly durable zinc. Elegantly designed, it provides optimum security and assures a tight, weatherproof seal.



DUOSLIDE OPERABLE SASHES

Both sashes of the slider window are operable for added convenience and ventilation.



GLIDERIGHT CELCON® ROLLERS WITH STAINLESS STEEL AXLE

The stainless steel rolling system assures an easy-gliding window with fingertip control.



CASEMENT

DESIGNED TO COMPLEMENT ALL STYLES IN THE GRANDURA COLLECTION, OUR CASEMENT WINDOW CAN BE USED ALONE AS A BEAUTIFUL FOCAL POINT OR WITH BAY, BOW OR PICTURE WINDOWS TO CREATE EXPANSIVE VIEWS WITH MAXIMUM VENTILATION.

- Attractive beveled frame
- Fusion-welded corners
- Multi-chambered frame and sash
- Extruded aluminum full-screen frame has fiberglass mesh with memory
- Available in an array of colors with optional woodgrain interiors and decorative glass



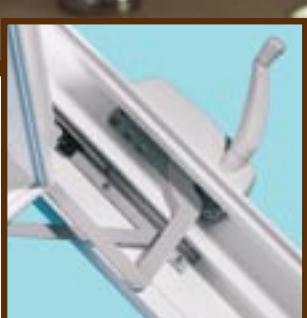
EXTERIOR VIEW



INTERIOR VIEW



**INMOTION
OPERATING HANDLE**
This deluxe operating handle opens window ninety degrees for maximum ventilation and ease of cleaning.



**X-TEND
SCISSOR OPERATORS**
Die-cast body made of the highest quality stainless steel provides smooth, dependable operation for the life of the window.



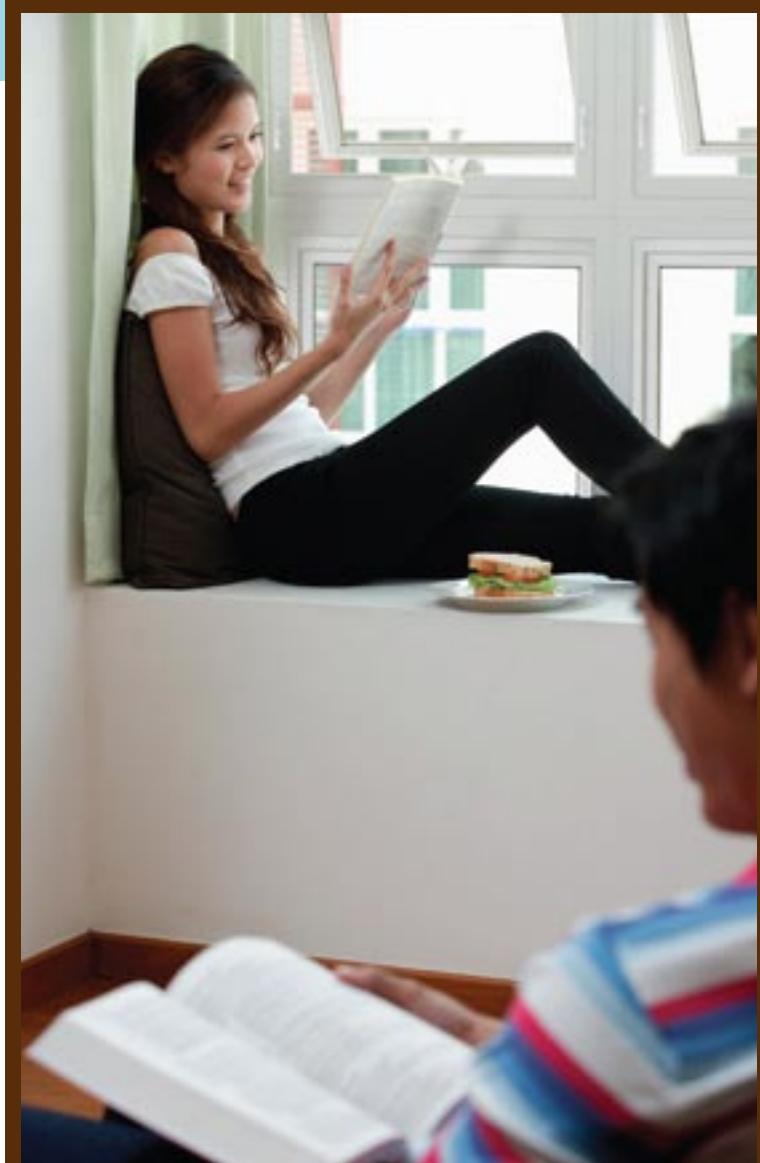
**SECURSENSE
MULTI-POINT LOCK**
This multi-point, single-lever locking system operates smoothly, allowing casement windows to latch easily and with a tight seal.



AWNING/HOPPER

THE GRANDURA AWNING WINDOW GIVES HOMEOWNERS A UNIQUE DECORATIVE ACCENT, AND THE HOPPER IS A STYLISH BASEMENT WINDOW OFFERING UNMATCHED SECURITY AND THERMAL PERFORMANCE. FOR A CUSTOM AND SPACIOUS INTERIOR LOOK, CONSIDER AWNING AND PICTURE WINDOW COMBINATIONS.

- Top-hinged window opens outward
- Attractive beveled frame
- Fusion-welded corners
- Multi-chambered frame and sash
- Extruded aluminum full-screen frame has fiberglass mesh with memory
- Available in an array of colors with optional woodgrain interiors and decorative glass



AWNING



EXTERIOR VIEW



INTERIOR VIEW

HOPPER



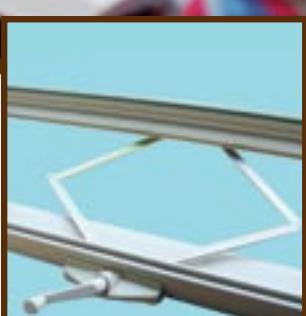
EXTERIOR VIEW



INTERIOR VIEW



**INMOTION
OPERATING HANDLE**
The crank operating handle is easy to use and features a comfort grip.



**X-TEND
SCISSOR OPERATORS**
Our awning window opens smoothly with a low-friction scissor-action roto operator.



HOPPER
This attractive, fixed basement window is a stylish performer that complements all windows in the **Grandura** collection.



PICTURE/GEOMETRIC

WITH STUNNING PANORAMIC VIEWS AND HIGH ENERGY EFFICIENCY, OUR PICTURE WINDOW IS IDEAL ALONE OR COMBINED WITH OTHER GRANDURA WINDOWS. TO CREATE A UNIQUE, CUSTOM LOOK, WE ALSO OFFER A VARIETY OF APPEALING GEOMETRIC SHAPES.

- Attractive beveled frame
- Fusion-welded corners
- Multi-chambered frame
- Available in an array of colors with optional woodgrain interiors and decorative glass



DURAWEVD FUSION-WELDED FRAME

The frame corners are fusion-welded for unrivaled durability and a weathertight seal.

DURAWEVD

SCULPTED SASH

The stylish, beveled frame complements all styles in the **Grandura** collection so you can mix and match to create your ideal window design.

ENERCOR MULTI-CHAMBERED FRAME

The multiple chambers act as a highly effective thermal barrier and greatly increase the window's durability and strength.

PICTURE



EXTERIOR VIEW



INTERIOR VIEW

GEOMETRIC



QUARTER ROUND



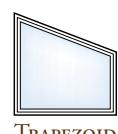
HALF ROUND



CIRCLE



HEXAGON



TRAPEZOID



BAY / BOW

INTELLIGENTLY CRAFTED TO MINIMIZE ENERGY LOSS AND INCREASE HOME COMFORT, OUR BAY AND BOW WINDOWS FEATURE CLEAN LINES, SMOOTH CURVES AND DETAILS THAT ENHANCE A HOME'S VALUE AND APPEAL.

- Attractive beveled frame
- Fusion-welded corners
- Multi-chambered frame and sash
- Insulated head and seat board
- 3-lite bays available in 30° and 45°
- 3-lite, 4-lite,-5-lite bows available in 10°
- Double Hung/Picture or Casement/Picture combinations
- Available in an array of colors with optional woodgrain interiors and decorative glass
- Seat board offered in birch or oak



BAY



EXTERIOR VIEW

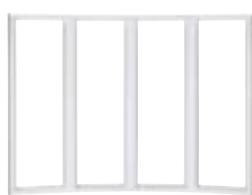


INTERIOR VIEW

BOW



EXTERIOR VIEW



INTERIOR VIEW



Create unique customized combinations to express your style and showcase your home's architectural beauty.



PATIO DOOR

THE GRANDURA PATIO DOOR IS AT HOME IN THE MOST STYLISH SETTINGS. DISTINCTIVE AND ELEGANT, IT ASSURES OPTIMUM COMFORT AND INSULATION WHILE ITS SMOOTH PERFORMANCE MAKES IT A PLEASURE TO USE YEAR AFTER YEAR.

- Attractive beveled frame
- Fusion-welded corners
- Multi-chambered frame and sash
- Double-strength tempered glass for added safety
- Extruded aluminum screen frame has adjustable rollers
- Available in an array of colors with optional woodgrain interiors and decorative glass

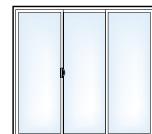


EXTERIOR VIEW



INTERIOR VIEW

CONFIGURATIONS



3-PANEL
Center panel slides open either left or right (left and right panels are fixed).

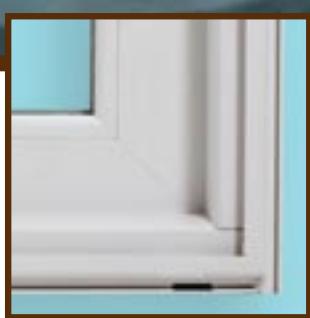


2-PANEL
Door handle available on left or right side. One door slides open, one door is fixed.



GRIPLOK HANDLE AND DUAL LOCK

The deluxe handle assures smooth operation while heavy duty dual locks provide an extra measure of security and a weathertight seal.



WEATHERGUARD POCKET SILL

The sloped pocket sill draws water away from the door for enhanced protection against moisture penetration.



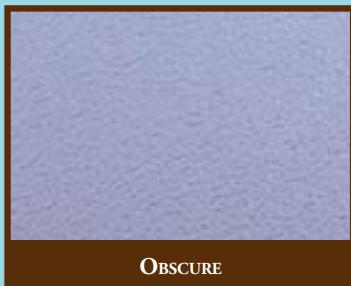
IMPASSE
FOOT LOCK
Auxiliary security two-position foot lock features interior aluminum reinforcing and heavy duty hardened steel.

OPTIONS & ACCESSORIES

GLASS*

Our specialty glass options are ideal for bringing comfortable shade or privacy into select areas of your home.

*Glass options not available in all glass packages.



OBSCURE



BRONZE TINTED



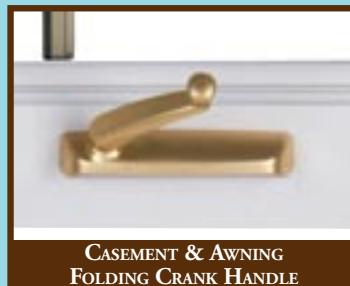
GREY TINTED

BRASS HARDWARE

Create a distinct, upgraded look with these attractive fittings.



**DOUBLE HUNG & SLIDERS
INTEGRITYLOK & LIFT HANDLES**



**CASEMENT & AWNING
FOLDING CRANK HANDLE**



**PATIO DOOR HANDLE
AVAILABLE IN FIVE FINISHES**

In addition to brass, the patio door handle comes in four other metallic finishes.



Antique Brass



Brushed Chrome



Mineral Bronze



Oil-rubbed Bronze

DECORATIVE GRIDS

Choose from our wide range of decorative grids to customize the window design to best suit your decor.

STYLES

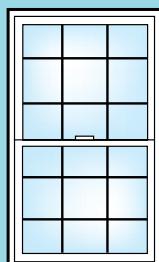


Flat

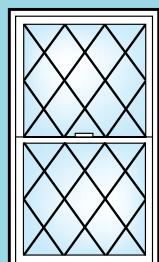


Sculptured

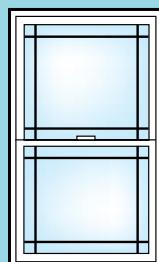
PATTERNS



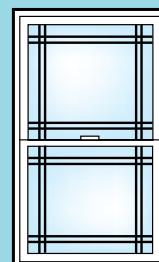
Colonial



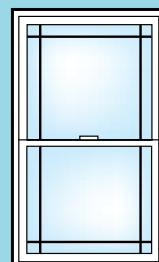
Diamond



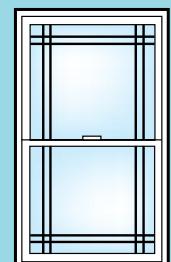
Prairie Single



Prairie Double



Perimeter Single

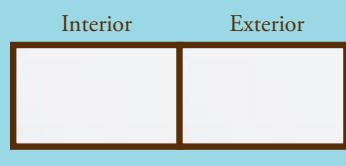


Perimeter Double

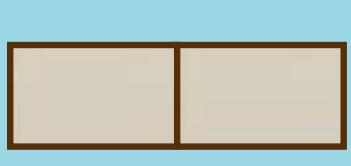
STYLE	PATTERN	WINDOWS					PATIO DOOR				
		WHITE	TAN	BRASS	AMBER OAK	HONEY OAK	WHITE	TAN	BRASS	AMBER OAK	HONEY OAK
FLAT	COLONIAL	■	■				■	■			
	DIAMOND	■	■				■	■			
	PRairie (S & D)	■	■								
	PERIMETER (S & D)	■	■								
SCULPTURED	COLONIAL	■	■	■	■	■	■	■	■	■	■
	PRairie (S & D)	■	■	■	■	■	■	■	■	■	■
	PERIMETER (S & D)	■	■	■	■	■	■	■	■	■	■

S: SINGLE D: DOUBLE

WINDOW FRAME AND SASH COLORS



White



Tan



Amber Oak



Honey Oak

White

Tan

White

White

Due to the printing process, colors may vary slightly from actual product.

LIFETIME LIMITED WARRANTY



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ALL REPLACEMENT WINDOW/PATIO DOOR VINYL COMPONENTS ARE BACKED BY A
TRANSFERABLE LIMITED LIFETIME WARRANTY

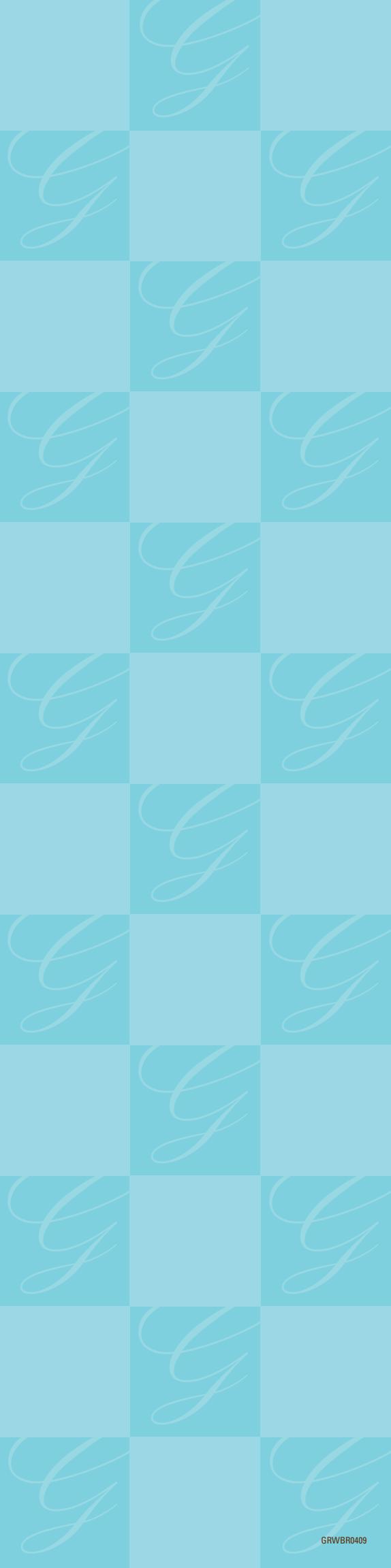
LIFETIME VINYL

LIFETIME HARDWARE

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