



know the  
*security*

see the  
*beauty*



feel the  
*comfort*





## *The beauty is in the details...*



New windows not only improve your home's comfort, value, and appearance, but the windows you select can make a big difference in what kind of return you get on your investment. How do you begin to find the right window for your home when they all appear to be so similar? Cheaper windows may seem fine at first glance, but once you know what to look for in a window, you'll see what a big difference exists.

THV Compozit Windows are custom made to the exact specifications of your home for better-performing, better-looking results, with no unsightly gaps to patch and paint. Our windows feature state-of-the-art materials, precision engineering and proven construction methods, for windows that last.

### **Cam-action Dual Locks**

*Easy to operate deadbolts are permanently fixed into the sash. Made from a highly durable material known for its strength and thermal efficiency.*



### **Welded Sash**

*Our sash construction maintains squareness for a superior weather seal.*



### **Quad Interlocking**

*Top and bottom sashes snap tightly into the head and sill. The sashes interlock with each other when closed, and have dual weather-stripping for energy-efficiency.*



### **Balance Cover and Easy Lift Action Balancer**

*THV Compozit Window sashes easily move up and down with the heavy duty balance system. Our balance cover not only improves the beauty of your window, but protects the balance mechanism from dirt and moisture.*



### **Dual Lift Handles**

*Two lift handles on the top and bottom sash make opening and closing a simple task. Never gets in the way of curtains or blinds.*



#### Vent Lock

*Allows windows to  
be vented for fresh air  
without sacrificing security.  
Strong enough to tolerate  
forcefully raising the window  
without giving.*



## THV uses only the best quality materials for hassle-free performance.

THV Compozit Windows are made from Expanded Polymer Composites (EPC) produced in the presence of physical/chemical blowing agents, resins and modifiers, resulting in foaming materials with closed cells to enhance and improve impact resistance, weathering characteristics and superior thermal performance. EPC withstands moisture and rot, creating a window 400% stronger than ordinary vinyl.

## Superior manufacturing methods ensure superior strength.

Most windows are held together with staples or screws and caulk that can loosen or weaken over time. But THV sashes and frames are pinch fusion welded — an advanced technique that permanently fuses all four sides together into a single weather-tight unit, guaranteed to stay strong and square for 50 years.

Advanced technology is incorporated into every window style, which translates into exceptional energy-efficiency for your home, without compromising durability.

Independent tests prove THV Compozit Windows perform significantly better than the industry standard. That's because every THV Compozit Window features the very best in thermal efficiency technology, including:

### Expanded Composite Polymers

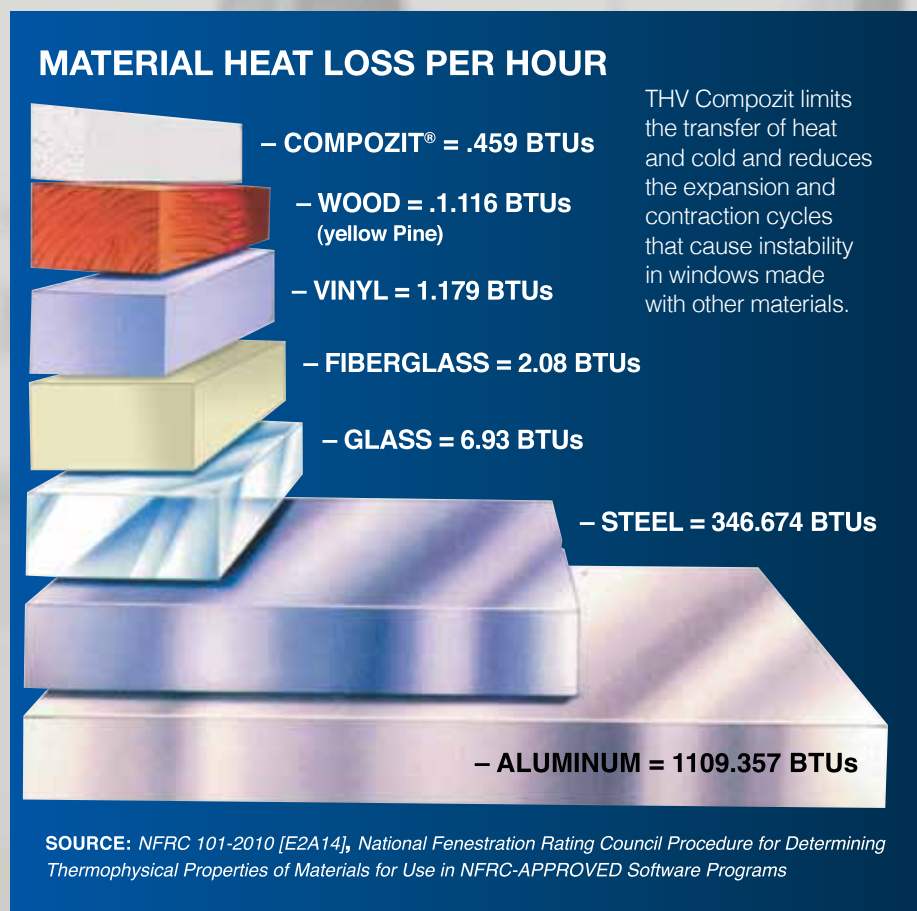
The R-factor (insulation value) per linear inch of a THV window frame is 214% better than vinyl windows and significantly better than other frame types (see chart to right). The secret is our revolutionary EPC insulation — a high-density space age Compozit material, that is intended to keep your home comfortable.

### TB700 Glass Spacer System

This advanced insulated glass spacer system virtually eliminates cold-spot corners, frost, fog and condensation. It works by maintaining a consistent space between the three panes of glass to interrupt the natural flow of heat to cold. Unlike other spacers, TB700 is a continuous channel that flexes as the glass expands and contracts. The result is a stronger, more energy-efficient insulated glass unit and a reliable seal.

### THV's Unique Alter-Lite® Glass Pack

THV Compozit Windows feature the very best in thermal efficiency technology, three times more than most companies, to maximize thermal performance. Each system incorporates three unique gases making up trigon gas (40%\*\* denser than air) and four low e coatings strategically located for the best energy-efficiency to complete the glass pack. Trigon, a safe naturally occurring gas, helps to block the transfer of heat better than air while increasing energy-efficiency, adding protection from the sun's damaging rays, and helping to deaden sound.

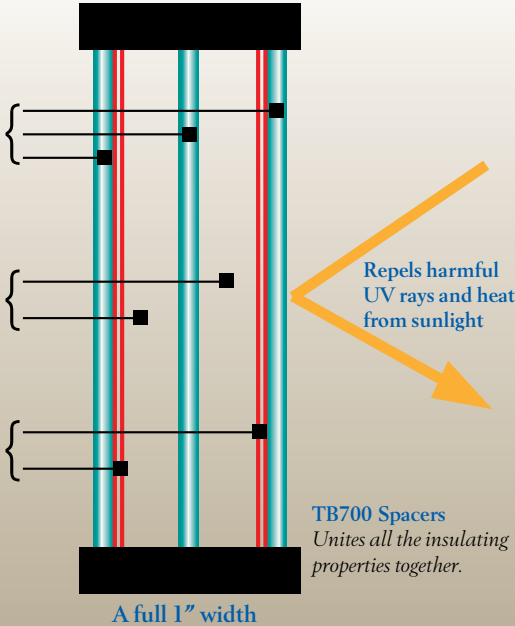


THV Triple Pane Window Detail

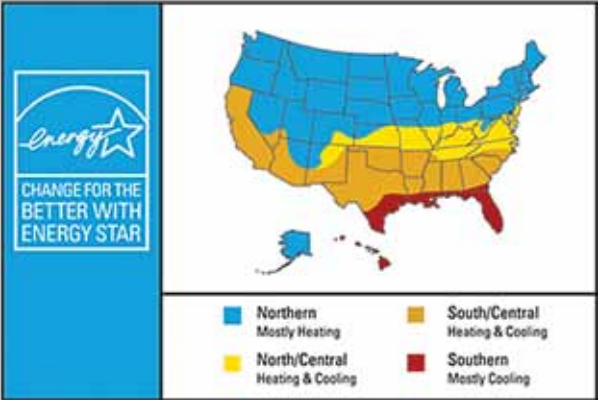
Triple Pane,  
American-made  
Float Glass -  
1" wide  
Standard on all  
windows for  
increased insulation  
and security.

Trigon gas-filled  
space between  
panes  
Adds an additional  
barrier to weather,  
noise, condensation  
and icing.

Two durable coats of  
Low-E Protective  
Coatings, creating four  
layers of Low-E coating  
Allows sunlight in  
while blocking out the  
summers heat and  
keeping the heat in  
during the winter.



**ALTER-LITE®**  
**TRIPLE PANE GLASS**



The THV Compozit Window was designed with Quality in Mind, but don't just take our word on it, let the product certification speak for itself.

THV Compozit Windows, with a Low-E Trigon glass package, meet The Department of Energy's ENERGY STAR requirements for your region. The ENERGY STAR Window Program is a voluntary partnership between the U.S. Department of Energy and participating window manufacturers. ENERGY STAR performance requirements are tailored to fit the energy needs of the country's 4 different regions — Northern, North/Central, South/Central and Southern states. Your investment in ENERGY STAR windows will pay for itself over time, and then the savings is money in the bank every year!

**THV Compozit Windows ... good for you, good for your home and good for the environment.**

GLASS EFFICIENCY COMPARISON

	Ordinary Dual Glazed clear/clear	Ordinary Dual Glazed LowE/clear	THV Dual Glazed LowE/clear Argon	THV Triple Glazed LowE/clear/ LowE Argon	THV Alter-Lite® Triple Glazed* LowE2/clear/ LowE2 Trigon
U Value (lower the number the better)	0.48	0.31	0.26	0.15	0.12
R Value (higher the number the better)	2.08	3.23	3.83	6.80	8.13
Solar Heat Gain Coefficient (total window) SHGC	0.78	0.41	0.28	0.24	0.24

\* Almost 4 times the insulation of a clear insulated unit, the THV Alter-Lite® Triple Glass works in the winter by reflecting heat back into the room. In summer, it rejects the sun's heat and damaging UV rays. In fact, all but 5% of the UV rays stay outside while dramatically reducing summer air-conditioning needs. Enjoy all of your house year-round with Alter-Lite® Triple Glass from THV - keeping your home comfortable.

Center of glass performance data for U Value & R Value SOURCE: NFRC Test Standards 100

Solar Heat Gain Coefficient frame & glass data SOURCE: NFRC Test Standards 200



# Beyond the Ordinary Warranty

**THV Cares for you and your investment by giving you peace of mind.**

We stand behind our replacement windows with strong warranties.

Durability and dependability are just as important as beauty and performance. This commitment to quality and customer satisfaction is clearly demonstrated by the THV Composit Window Systems 50 Year Non-pro-rated Warranty.

## THE THV COMPOSIT WINDOW SYSTEMS 50 YEAR WARRANTY

What good is a warranty if it's full of exemptions, exclusions and pro-rated fees? The makers of THV Composit Windows believe so strongly in the durability of our products that we back the entire window unit with a hassle-free guarantee – including an unprecedented warranty\*.

Our 50 year warranty is our way of proving to homeowners that as a long-standing and respected leader in this industry, we have absolute confidence in our products. And it's transferable to the next homeowner when you decide to sell — helping you protect your investment by increasing your home's value. THV Composit is the product of choice for many homeowners across the country. Combining the best product with quality installation and consistent customer service is the cornerstone of the THV Composit product offering. So if you decide THV Composit is right for your home, you can rest assured that you will get the best of all three.



*Fifty Year*  
COMPOSIT WINDOW WARRANTY

**THV Composit**  
Windows & Doors

**Non-Pro-rated Limited Transferable Warranty**

Warranty is made by THV Composit Windows & Doors in connection with the sale of Replacement Windows (the "Windows") purchased by:

(Full Name) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

INSTALLATION DATE \_\_\_\_\_

(Distributor Name) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

ND 58554 • 1.800.602.1832

*\*See warranty for details*

# The Frame

## **THV Composit Window Systems meet or exceed AAMA performance standards in all areas**

The American Architectural Manufacturers Association is a collection of scientific, production, and business people whose primary goal is to promote quality, confidence and knowledge throughout the construction industry. It issues standards for a variety of products and materials, and performs quality audits of manufacturers to ensure standards are met.

The AAMA has set rigorous standards for product certification in four areas.

### **Dimensional Stability**

Measures the ability of a window part to maintain its shape over changing temperature ranges without bowing or warping.

### **Impact Resistance**

Refers to how well a product can resist damage such as cracking or breaking during shipping, storage, installation and usage.

### **Weatherability**

There are two aspects of weatherability. The first regards color and how well a material can hold its initial color and not fade over time. The second, impact retention, relates to a material's ability to withstand environmental and thermal extremes over time.

### **Heat Resistance**

Tests the materials ability to withstand extreme heat without blistering, cracking or delamination.

*Some rigid vinyl windows have foam insulation injected into the cavity of the frame. Foam filling does very little for the overall efficiency of a window. The change in U Value is less than .001 making it a terrible insulator.*

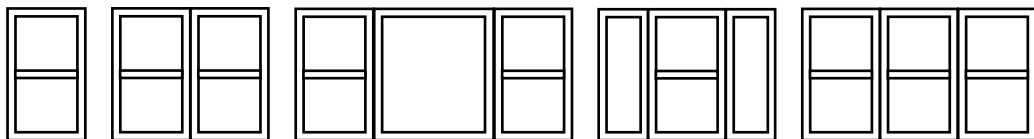
*Foam is also a poor anchor for hardware screws.*



# Double Hung

W i n d o w s

For decades, double-hung windows have been the style of choice in homes across the U.S. Today this classic window remains the standard for the vast majority of replacement window projects. While the appearance of double-hung windows has not changed dramatically over the years, their construction, durability and energy-efficiency have. THV offers discerning homeowners the ability to maintain the traditional look of double-hung windows while enjoying all the benefits modern technology has to offer.



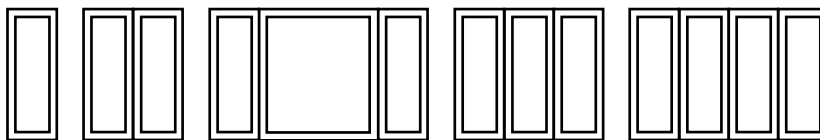
## Stair-step Slope Sill

*Allows water to drain out from the sill, resisting water standing and keeping the air-filtration down for better energy-savings.*



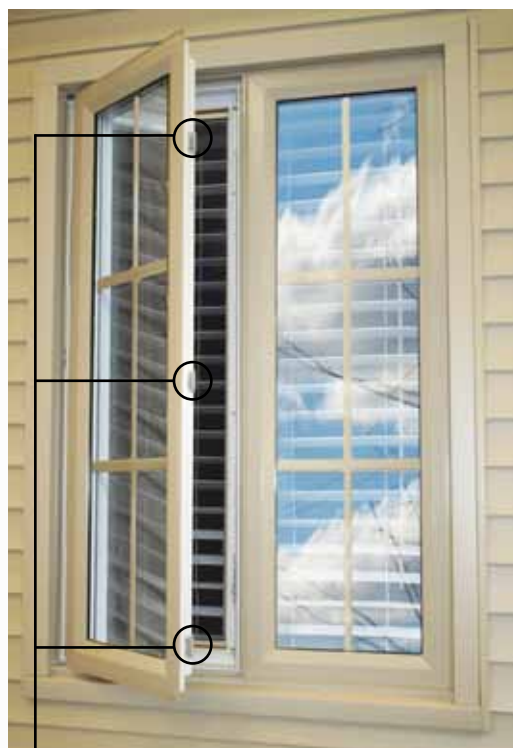
# Casement

W i n d o w s



Undeniably distinctive. Unmistakably European. Irresistibly charming. Many homes just wouldn't look the same without the romantic touch of casement windows. While well-loved for their looks, casement windows of years past were notoriously poor performers when it came to keeping out cold, wind and rain. Not so with THV casement and awning windows. Combining old world charm with modern day durability and energy-efficiency, THV Compozit helps you love your casement windows all year round. Designed for beauty and energy-efficiency, THV casement windows are a great addition to the contemporary and traditional homes alike. With clean lines

and large viewing areas, casement windows are great for letting in the outdoors. And with our multi-point locking system and airtight weather-stripping, your THV windows are sure to keep you secure and comfortable, keeping the outdoors... outdoors.



*Three point single lever multi-locking system to give a complete seal to keep out the elements.*

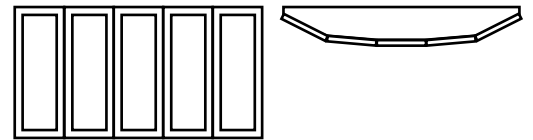
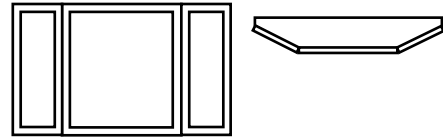


*Unobstructed clean look. Our fold down handles are the perfect solution.*

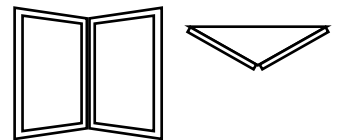


# Bay & Bow

W i n d o w s



*Bow windows come in 3, 4, 5 or 6 lite configurations.*



Whether your dream landscape is your garden, the forest, a river, or the 18th hole, some views just beg to be seen.

When a standard window doesn't do justice to your surroundings, THV Composit bay, bow or garden windows

can provide the sweeping panoramic view they deserve.



With THV's premium quality materials, superior construction and energy-efficient

features, it's easy to enjoy the beauty of the great outdoors without paying to heat and cool it. Leave the scenery in the background and turn the window itself into a dazzling focal

point with our glass options.



## V-Bay

*Add another dimension to your view with this prestigious window.*

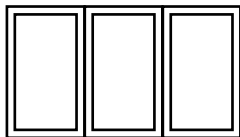
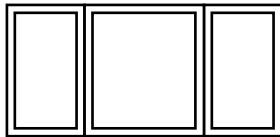
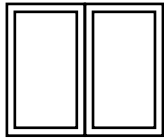
## Garden Window

*Keep your plants healthy by allowing the sun in through this unique style window adding architectural beauty as well.*



# Sliding

W i n d o w s



## Picture Perfect design.

Narrow sight lines maximize your viewing area and carefully replicates the look of authentic wood windows. For extra character, add one of our decorative grid options in your choice of eight popular colors.

## Lock in a sense of security

Every window features two heavy-duty sash cam locks. Our glazing layers add that extra protection, sealing out water and making glass difficult to remove from outside the home.

## We go to extremes, so your energy bills don't!

Enjoy the effortless gliding of the innovatively engineered hardware. Available in two or three lite units, extended sizes and several design options. They not only fully open for ease of cleaning, but come equipped with a vent lock for security for your family while letting in the fresh air.



### Vent Lock

*Allows windows to be vented for fresh air without sacrificing security.*

# European In-Swing Sliding Windows

## Two more reasons to love them.

State-of-the-art operating hardware allows THV Composit European In-Swing Sliding Windows to glide with the greatest of ease and swing open.

You'll find in-swinging sashes to be both charming and functional, providing large unobstructed views and maximum ventilation. Not to mention the in-swing option allows for the best possible results for cleaning while tilted in safely without the sash moving.



*The European-style tilt-in feature makes it especially easy to clean the outside of your windows.*

# Features &

## O p t i o n s

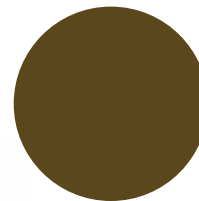
THV windows are more than custom-made to size, they're custom-made to style as well. We provide a palette frame and glass options - you provide the inspiration. Mix and match frame colors to complement your interior and exterior décor, and select from a variety of decorative glass options ranging from distinctive to dramatic. After all, they're your windows.

How do you see them?

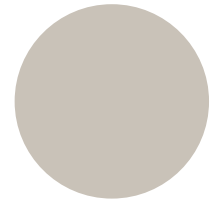
### Customize your windows inside and out.

THV Compozit Windows and patio doors are available in eight exterior colors, three woodgrain and white interior natural-looking finishes. To best compliment your home's décor, THV windows can be manufactured in any combination of interior and exterior colors, unless otherwise indicated. Bay and bow windows also feature oak on the head, seat and jambs, which come prestained in Light, Dark, and Cherry woodgrains, coated white or unfinished for your personal touch.

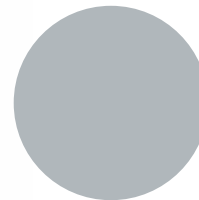
### Exterior Finishes



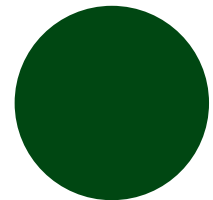
Terra Brown



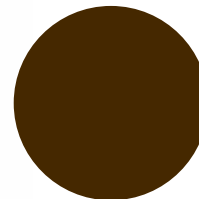
Clay



Classic Gray



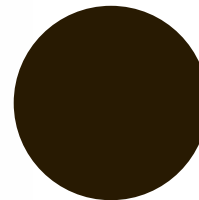
Tundra Green



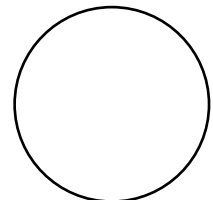
Basic Brown



CT Beige



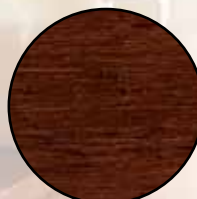
CT Brown



White



### Interior Finishes



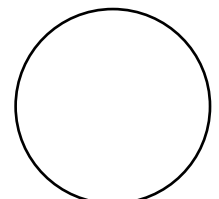
Cherry  
Woodgrain  
(Interior Only)



Dark  
Woodgrain  
(Interior Only)



Light  
Woodgrain  
(Interior Only)



White

### Screen

Designed to handle rigorous use, our puncture resistant teflon coated fiberglass screening resists water and the elements keeping bugs out.



*Colors may vary slightly due to printing.*

# Decorative Options

**Distinctively beautiful; Surprisingly practical.**

If you love the traditional look of multi-paned windows, but hate the work traditionally involved in cleaning them, you're in luck. THV offers a number of glass styles with grids, decorative muntins mounted between two or three panes of insulating glass for easy cleaning.

Choose from: Beveled V-Groove, Contoured Colonial, Standard Colonial, Standard Diamond, Woodgrain, Single Prairie, Double Prairie and Pencil Brass patterns.



Contoured Colonial



V-Groove



Standard Diamond



Woodgrain Contoured Colonial

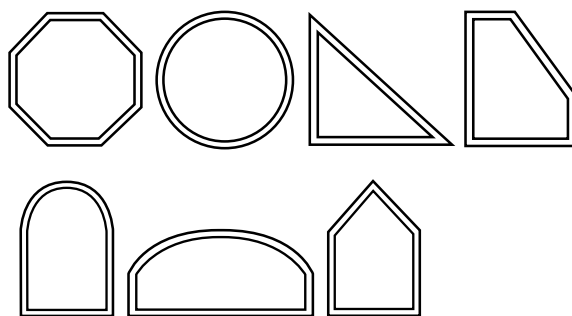


Single Prairie Pattern



Double Prairie Pattern

## Specialty Shapes



*Many styles and shapes are offered for a more designer approach.*



## In-swing Awning Basement Windows—

When replacing the windows in your home, it's very important to remember the basement. The THV Composit In-swing Awning Window is a specially designed awning window making it easier to reach when opening. It's built to allow for adequate ventilation and designed with the same energy-saving specifications as all our THV Composit Window Systems.





**THV Compozit®**  
Windows & Doors

# *Luxury Performance*

D o o r s



**All the best qualities of a window and a door combined.**

## **Quality**

- 50 Year Transferable Warranty
- Designed by experienced craftsmen
- Operational ease
- Maintenance-Free, will never rot, warp, crack or need paint

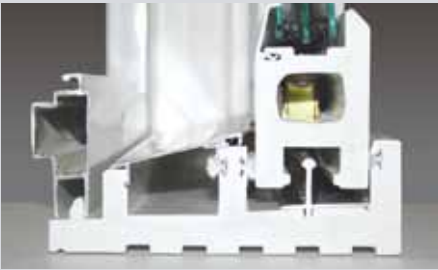
## **Energy-Efficient**

- Alter-Lite® Triple Pane Glass gives ultimate energy-efficiency
- Thermal threshold engineered for strength and air tight fit

## **Security**

- 3 - Point Precision Locking System
  - 2 Steel locking bars that bolt into a steel receiver in one easy motion
  - An additional steel security lock that can also act as a ventilation lock

Quality Craftsmanship



Thermal Threshold



Top quality ball-bearing roller assembly

Decorative Glass Options



Clear



Beveled



Contoured Colonial



Contemporary Diamond

Hardware Options



Steel-Locking Bars (Standard)



Bronze



White



Polished Brass



Satin Nickel

3-Point Precision Locking System

Our locking system includes a specially designed door handle lock (above), with two steel-locking bars that bolt into a steel receiver in one easy motion.

A third steel security lock (below) provides extra security, and can also act as a ventilation lock option.

Interior Finishes



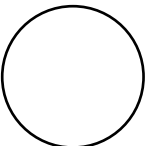
Light Woodgrain



Dark Woodgrain



Cherry Woodgrain



White

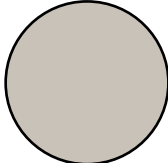


Vent Lock (Standard)

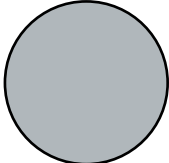
Exterior Finishes



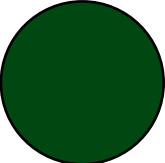
Terra Brown



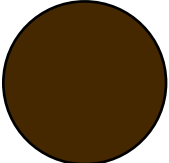
Clay



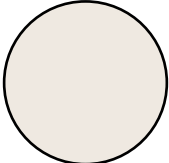
Classic Gray



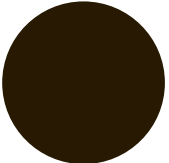
Tundra Green



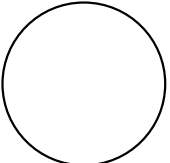
Basic Brown



CT Beige



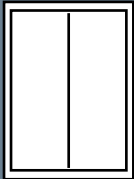
CT Brown



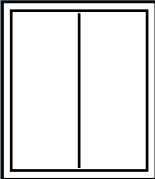
White

Colors may vary slightly due to printing.

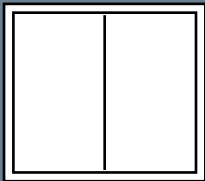
Styles (Standard)



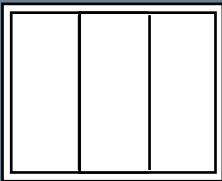
5'x 6'8"  
59"x 79 1/2"



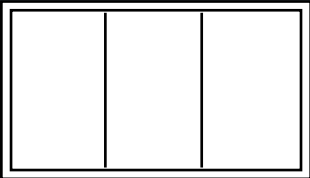
6'x 6'8"  
71"x 79 1/2"  
White Venetian Blinds  
Optional\*



8'x 6'8"  
95"x 79 1/2"  
Double Glass Only



9'x 6'8"  
107"x 79 1/2"  
White Venetian  
Blinds Optional\*\*



12'x 6'8" ; 143"x 79 1/2"  
Double Glass Only

White Venetian Blind Option:

Only 6' and 9' doors and double glass clear.



Low profile operator to raise and lower internal shade.



\*Venetians blinds add 1/2" to 6' door width.

\*\* Venetians blinds add 3/4" to 9' door width.



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[thv.com](http://thv.com)