

Strength and beauty

WOOD-ULTREX®
S E R I E S



Combine the virtually indestructible Ultrex® exterior with the elegance of a real-wood interior. The Integrity® Wood-Ultrex Series is setting new standards in low maintenance and top aesthetics.

The Wood-Ultrex Series lets you enjoy the best of both worlds. Beautiful natural-grain wood interiors are paired with low-maintenance, high-durability Ultrex exteriors. It's the perfect union of aesthetics, longevity and continued performance.

Available in the most popular sizes and styles of windows and doors, this series offers even more options for your home. Plus, standard Integrity products are ENERGY STAR® qualified.

Integrity Wood-Ultrex windows and doors are easy to order, easy to install and delivered on time, too. Because you shouldn't have to sacrifice anything to achieve elegant, long-lasting performance.

Stand proud

WITH WOOD-ULTREX WINDOWS AND DOORS.







15+
YEARS
OF SUPERIOR
COMPOSITE
TECHNOLOGY

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Overachieve

THE REPUTATION LIVES ON.

Eighty years of innovation and uncompromising product performance standards: that's the legacy of Marvin Windows and Doors.

Our history was built on quality craftsmanship, a reputation for excellent service and a commitment to community. Today, second-, third- and fourth-generation Marvins' remain actively involved in the company, keeping the original spirit of corporate responsibility alive.

So when you specify Integrity, you can rest assured that every window and door is protected by a company renowned for standing behind its products with world class service and support for nearly a century.

In the end, our promise to you is simple: durable, high-performance products that bring lasting value to your home.



Our history was built on quality craftsmanship and a reputation for excellent service. Our future incorporates the unique innovation of Ultrex.



ULTREX® IS
8x
STRONGER
THAN VINYL!

Get tough

ULTREX OFFERS UNMATCHED PERFORMANCE AND UNBEATABLE SATISFACTION.

Durable doesn't begin to describe how tough Ultrex is. Strong, stable, and virtually indestructible, Ultrex is possibly the perfect building material, creating windows and doors that leave other materials in the dust.

Made from pultruded fiberglass, Ultrex outperforms the competition on nearly every measure. Non-conductive and non-corrosive, Ultrex resists the ravages of heat, cold, time and pressure to provide the most worry-free windows and doors available today.

This patented material pioneered by Marvin® has what it takes – from its durability and performance characteristics, to its first-to-market and ingenuity – to create products of incomparable value.

Low-maintenance and high-durability. Everything you want your home to be, and everything that Ultrex delivers.

Pultruded fiberglass is made of thin strands of strong glass cables that are saturated with specially compounded resins to create a remarkably durable material.

The patented finishing process applies an impermeable factory finish up to 3x thicker than competitive finishes, making Ultrex 5x more resistant to ultraviolet (UV) degradation over time. Available in Stone White, Pebble Gray, Cashmere, Bronze or Evergreen. It can be painted with no impact on its protective properties.

The patented and advanced thin wall construction technologies of Ultrex allow for detailed profiles and component optimization.



Temperatures may fluctuate, but Ultrex® won't.

Ultrex has an extremely low rate of thermal contraction and expansion. In fact, it expands and contracts at virtually the same miniscule amount as glass, maintaining a tight seal with no leaks, seal failures or stress cracks that can compromise energy efficiency and long-term performance.

This is especially so when compared to vinyl, which can distort in extreme heat or streak and crack in fluctuating temperatures. But Integrity® windows and doors can withstand temperature extremes while maintaining a tight seal.

833% Less Expansion Than Vinyl.

Ultrex resists distortion even at temperatures up to 350°F. Rapid temperature change doesn't faze Ultrex: When the mercury climbs from -30°F to 70°F, a 6' stile changes less than 1/32" in length.

Designed for beauty. Engineered for life.

Our 15+ years of experience in the composite fenestration industry led us to ensure that every part is optimized for the ultimate in performance and fit, including detailed radius profiles and clean, balanced sightlines.

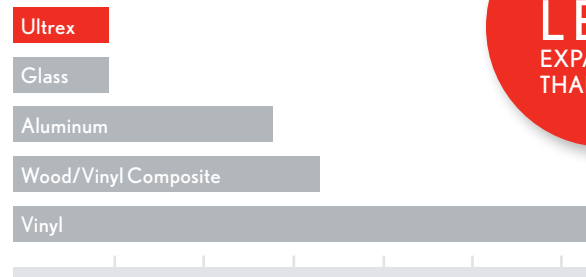
Windows and doors made with Ultrex won't get scratched, dinged or marred as easily as vinyl. Our patented, mechanically bonded acrylic finish is up to three times thicker than competitive finishes, and it resists UV degradation up to five times longer than vinyl – even on dark colors.

This patented material pioneered by Marvin® has what it takes – from its durability and performance characteristics, to its first-to-market and ingenuity.

EXPANSION MEASUREMENT

SHORTER IS BETTER

Comparison of expansion and contraction



833%
LESS
EXPANSION
THAN VINYL

JUST ONE
SQUARE INCH OF
ULTREX CAN HOLD
34,000
POUNDS!



To help you visualize: 34,000 pounds is equal to eight and a half adult white rhinos.

So now imagine how much your entire window can handle!

And Ultrex is so tough, we have to use diamond-edge blades just to cut it to size.



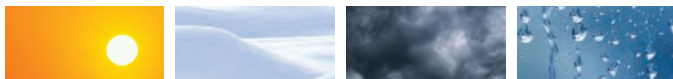
Selected solid wood, classically detailed and milled to satin smoothness, ready for stain or paint. Also available with optional white interior prefinish.

to create products of incomparable value.

Stay true

Ultrex® also stands up mightily to rain, wind, heat and time, looking beautiful and performing well long after other window and door materials have lost their luster.

Over time, vinyl can spot, streak or crack. But Ultrex stays true under all conditions. Its UV-resistant uniform finish further separates Ultrex from the competition.



Come rain, come shine: Ultrex takes on all types of weather.

Windows and doors made with Ultrex stay square, true and beautiful over the long term. This is especially so when compared to vinyl, which can distort in extreme heat or streak and crack in fluctuating temperatures. Ultrex has a low thermal expansion rate and expands at virtually the same rate as glass, maintaining a tight seal with no leaks, seal failures or stress cracks that can compromise energy efficiency and long-term performance.

Built to perform®.

It's more than our tagline, it is our promise to you. Ultrex is so resilient, it outperforms and outlasts vinyl and roll-form aluminum, time and time again. Strong yet light, Ultrex provides sturdy, reliable support from top to bottom, end to end.

STIFFNESS MEASUREMENT

LONGER IS BETTER

Average Modulus

3.0MM

800K

300K



6X
MORE RIGID
THAN VINYL

Stability.

The strength of Ultrex also translates into superior stability. Ultrex is 6x more rigid than vinyl. So issues of instability and less-than-perfect alignment that can complicate installation of vinyl products – and their long-term performance – are not a concern with Integrity® windows and doors.

The exceptional strength and stability of Ultrex eases installation and establishes a secure, long-lasting fit that stays square and true under all conditions.

"We are always striving to be better, more efficient, and of course more sustainable. It's a proud part of our culture and will continue to be for generations to come."

Susan Marvin, President,
Marvin® Windows and Doors

Pioneers



Eighty years of innovation and uncompromising product performance standards: that's the legacy of Marvin Windows and Doors. And it's why we build energy efficiency into every Integrity® from Marvin product.

A history of integrity.

Marvin has a long history of product innovations, industry firsts and commitment to community. Integrity Windows and Doors takes pride in the fact that our corporation is green-minded with recycling efforts and employee awareness. In addition, we incorporate green components into our product packaging and even our distribution process.

Beyond that, being green is also about conserving energy – and Integrity is energy efficient. Not only are the products extremely durable, Integrity from Marvin was the first major window and door manufacturer to offer its ultra durable Ultrex® energy-efficient LoE²-272® insulated glass with Argon and ENERGY STAR® qualified performance on all of its standard windows and doors.

Today, Marvin is credited with several industry firsts and is recognized for innovative products and uncompromising product performance standards. Second-, third- and fourth-generation Marvin's remain actively involved in the company and keep the original spirit of corporate responsibility alive today.

Superior performance you can feel good about.

At Integrity, sustainability is part of the manufacturing philosophy: make a product able to withstand the power of the great outdoors, while preserving the natural resources from which it was made.

- Ultrex is made from silica sand, a safe and renewable natural resource.
- Ultrex requires 39% less energy to produce than vinyl and our Ultrex Facility captures and destroys 95% of all VOCs.
- The Ultrex manufacturing facility fully complies with the 1990 Clean Air Act and has been designated as a Maximum Achievable Control Technology (MACT) facility as outlined by the Environmental Protection Agency (EPA).
- The glass in our products contains 15%-33% recycled content.
- Integrity products offer ENERGY STAR qualified performance.
- Even more green awards and information at integritywindows.com.



OUR INSULATED
GLASS CONTAINS
15%-33%
RECYCLED
CONTENT

Shine on



CREATE A MORE COMFORTABLE INTERIOR AND LOWER ENERGY BILLS – REGARDLESS OF THE SEASON.

REDUCE
COOLING COSTS BY
38%

Keep heat inside during cooler weather and block the sun's rays during warmer weather with double-pane windows with LoE coating.

Ultrex® resembles materials like wood that create an insulated barrier – keeping extreme weather outside.



Stellar energy performance ratings.

The NFRC defined an energy performance rating system for the entire window and door industry. It rates:

- U-factor, or how well a window keeps heat inside a building.
- Solar heat gain, or a window's ability to block warming caused by sunlight.
- Visible light transmittance, or how much light gets through a product.
- Air leakage or heat loss and gain by infiltration through cracks in the window assembly.

Fortunately, Ultrex is far less conductive than aluminum and is similar to wood and to PVC. It provides an insulated barrier against extreme weather temperatures, keeping homes comfortable, and reducing heating and cooling costs.

The National Fenestration Rating Council, the Department of Energy, and the U.S. Environmental Protection Agency were all impressed, **so much so that Integrity® Windows and Doors received one of the highest performance ratings.**

Environmentally sound, in more ways than one.

Integrity from Marvin® takes our Built to perform® philosophy to heart, and works diligently to ensure that we hold ourselves to the highest quality and environmental standards possible. That is why Integrity from Marvin is proud that our Fargo facility is both ISO-9001-2000 and ISO-14001-2004 certified.

The International Organization for Standardization (ISO) is a worldwide federation established in 1947 that defines standards for Quality Management Systems (ISO-9001-2000) and Environmental Management Systems (ISO-14001-2004). These universal standards allow companies to provide more streamlined and efficient transactions, and help companies facilitate quality and environmental sustainability throughout their organizations.

ISO certification is a voluntary undertaking and speaks to the depth of an organization's commitment to quality and the environment.

Integrity from Marvin willingly took on this challenge in an effort to raise our own high standards of quality and test our quality management systems against the world's highest standards. To receive certification Integrity underwent an extensive detailed audit process that requires an unwavering commitment to quality and the environment and continuous resolve for improved management systems. Integrity Windows and Doors is proud to have achieved both our ISO-9001-2000 and ISO-14001-2004 certification and will continue to focus our efforts to ensure consistent quality and environmental standards in serving you now and into the future.

For more information on the International Organization for Standardization (ISO) and their certifications, visit iso.org.

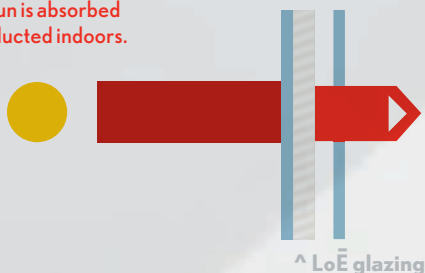


LoE and Argon gas means UV rays are screened to reduce fading and damage to upholstery and carpets. Integrity® offers both LoE²-272® and LoE³-366® glass for the ultimate in energy efficiency.



500x
LESS CONDUCTIVE
THAN ALUMINUM =
REDUCED ENERGY
COSTS

Winter sun is absorbed
and conducted indoors.



Summer sun is filtered
and reflected back outdoors.



Save energy costs without sacrificing comfort.

ENERGY STAR® qualified windows can save you 15% of your total energy bill.¹ And Integrity from Marvin® products don't simply qualify for the ENERGY STAR rating; they exceed its performance requirements.

First, Ultrex® is 500 times less conductive than aluminum.

Next, we were the first major window and door manufacturer to offer energy-efficient LoE²-272® glass and ENERGY STAR qualified performance on all of our standard windows and doors. Compared to single-pane unglazed windows, Integrity's double-pane windows and LoE coatings can reduce window heat loss and cut costs by 34% in cold climates, and cut cooling costs by 38% in warm climates.²

And now Integrity offers LoE³-366® insulated glass with Argon gas, which has thermal conductivity 30% lower than that of air. It adds improved solar and thermal protection by distinguishing between visible light and damaging UV and near-infrared rays to offer the ultimate glass performance.



¹ ENERGY STAR at energystar.gov

² Sustainable Energy Coalition
at sustainableenergy.org

Easy to specify, easy to order — our short lead times, consistent delivery and remarkable quality make your life easier.

Weather-tight, solid and durable Ultrex® material means there are virtually no call-backs. Plus, we ensure that every part is optimized for the ultimate in performance and fit, including detailed radius profiles and clean, balanced sightlines for an architecturally inspired appearance.

Designed to last for generations, Integrity® is backed by a fully transferable 20/10 warranty (10-year coverage on manufacturing materials and workmanship, and 20-year coverage on glass).



Rest assured

WE MAKE INSTALLATION SIMPLE AND EFFICIENT.

Builders, contractors, architects and homeowners all agree: Integrity Windows and Doors are designed for excellence.





HOMEOWNERS
APPRECIATE THE
PEACE OF MIND
OF INTEGRITY®
PRODUCTS

DELIVERED
ON TIME
99%
OF THE TIME

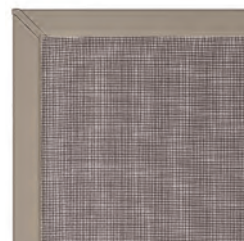
Your Integrity products are delivered in 10 calendar days making your project run smoother. Ten years of an on-time record is something you can count on.

The following standard features make choosing Integrity even easier.

- 1** Preattached folding nailing fin for easier installation.
- 2** Factory-installed screens are a standard offering with operating windows. At no extra cost, we can ship your screens separately to reduce damage caused on site prior to installation.
- 3** Factory-applied jamb extensions save time and labor. We supply 4 ⁹/₁₆", 6 ⁹/₁₆", and 6 ¹³/₁₆" standard width jambs in bare wood or white interior finish.
- 4** Integral corner key keeps window and door units square. Plus, we inject adhesive sealant to create corner joints that stay sealed and square.
- 5** Create your own assemblies with available factory mulling or field mulling kits.
- 6** The Ultrex® exterior is paintable, and holds dark colors better than vinyl or vinyl clad.



1



2



3



4



5



6



LoE²-272® (Standard) and LoE³-366® insulated glass with Argon gas*; available in tempered



LoE²-272® and LoE³-366® tempered obscure insulated glass with Argon gas*

Glazing.

Energy efficiency, safety and privacy. Choose from Integrity® Windows and Doors' standard LoE²-272® insulated glass with Argon gas* or LoE³-366® with Argon gas. Both tempered insulated glass with Argon gas (standard on larger units and doors, and available on most other units); and tempered obscure¹ insulated glass with Argon gas are available in LoE²-272® and LoE³-366®.



Grilles-Between-the-Glass** shown in Bronze



Wood interior Grilles shown in bare wood

Divided Lites.

Simulated Divided Lites: (SDL) Are bars permanently adhered to both sides of the glass for a more authentic look. SDL is available with or without spacer bar and in several popular lite cut options (see page 39). Finished to match your interior and exterior finish options.

Profiled Grilles-Between-the-Glass: (GBG) Offer all the style with no hassle by inserting the grille detail inside the two glass panels. GBG is available in several popular lite cut options (see page 39) and features a white interior with a Stone White, Pebble Gray, Cashmere, Bronze or Evergreen exterior to match the exterior finish.** Wood Interior Grilles feature easy removal for cleaning.

Available in bare wood on the interior or with factory applied white pre-finish on interior or exterior.



Simulated Divided Lite in Pebble Gray (with or without spacer bar)



Pre-Finish White



Bare Wood

Finishes.

Interior Finishes: Standard bare wood to stain or paint to match your interior; or a factory-applied white semi-gloss interior finish for reduced job site finishing time and labor.

Exterior Finishes: Stone White, Cashmere, Pebble Gray, Bronze or Evergreen. All are paintable without affecting the durability.



Stone White (exterior)



Cashmere (exterior)



Pebble Gray (exterior)



Bronze (exterior)



Evergreen (exterior)

* Argon gas not available in high elevations where capillary tubes are required.

** Not available in polygons except in direct glaze rectangles.

1 Obscure not available on Doors, Round Tops or with GBG.

2 Available only with LoE²-272® and LoE³-366® glass.

Hardware Finish Options.

French Door handle sets offer classic styling, keyed cylinders, multi-point locking systems and available PVD* finishes for superior durability.

Windows feature classic low-profile durable hardware for clean aesthetics, safety and security.



French Door handle sets

Window hardware options



Available with IMPACT

Integrity® from Marvin® is pleased to offer IMPACT-rated products for East and Gulf Coast States for wind zones up to 140 mph. Integrity Wood-Ultrex® Awnings, Casements, Double Hungs, Polygons, Sliding French Doors and Outswing French Doors are available with an IZ3 performance rating.

What separates Integrity IMPACT products is their Ultrex construction. Ultrex is the perfect material to withstand the harshest coastal storm and everyday coastal living. Ultrex's strength, minimal expansion/contraction and superior resistance to heat, UV degradation and corrosion means that IMPACT windows won't only stand up to the storm – they will stand up to time.

Find out more about IMPACT products from Integrity at integritywindows.com/impact.

HARDWARE FINISHES	Sliding Patio Door	Sliding French Door	Inswing French Door	Outswing French Door	Windows
	Interior and Exterior	Interior and Exterior	Interior and Exterior	Interior and Exterior	Interior
White					
Almond Frost					
Brass					
Brass PVD					
Satin Nickel					
Satin Nickel PVD					
Oil Rubbed Bronze					
Oil Rubbed Bronze PVD					

ADJUSTABLE HINGE FINISHES	Inswing French Door	Outswing French Door
Almond Frost		
Goldtone		
White		
Pebble Gray		
Gray		
Cashmere		
Dark Brown		
Evergreen		
Brass PVD		
Satin Nickel PVD		

*Physical Vapor Deposition - highest grade corrosion resistance finish.

Double Hung

TIMELESS STYLE MEETS SUPERIOR PERFORMANCE.

AND CREATES A NEW CLASSIC.



Both sash tilt
and remove easily,
with no tools or
strings to detach.

Low-profile sash locks provide smooth operation.

A positive detent reinforces when the window is locked.

Robust sill nose and 13.5° sloped sill ensure proper water management and create a more traditional appearance.

Take the design pressure (DP) up to 50. An optional field-applied wood sill liner kit increases water performance to a DP50 rating, and installs easily on any Integrity® double hung.

Self-sealing corner keys, weather stripping and jamb-sill gaskets mean a minimum design pressure rating of DP40. Add ergonomic hardware, a dramatic sloped sill, and more wood to the interior, and this double hung window not only performs great, it looks great doing it. Mull with picture windows, other Double Hungs, Transoms, Polygons or Round Tops to create almost any assembly imaginable. Factory mulling and field mulling kits are available.





Casement and Awning

DESIGNED FOR A GREAT FIRST IMPRESSION. ENGINEERED FOR A GREAT LASTING IMPRESSION.



Sequential multi-point locking system ensures DP50 rated performance on all sizes.

Reliable dual-arm roto gear hardware prevents sagging and allows for easy cleaning.

Available stainless steel hardware package for superior corrosion resistance.

Stationary, operating and transom picture units available.

Remarkable engineering for a window that's sure to get a lot of use. Dual arm roto gear operation and sequential multi-point locking system ensure DP50 rated performance on all Casement and Awning windows so they will remain airtight, watertight, and secure even in driving rains and strong winds. Clean lines, a new folding handle and single lever lock enhance the beautiful wood interior, while factory mulling with Casements, Awnings, Round Tops, Polygons, Transoms and Picture windows enable unique multiple configurations. Available with stainless steel coastal operating hardware.

A selection of hardware finishes, divided lites, lite cuts and an available wood veneer screen surround provide an abundance of design options.





Glider

THE WINDOWS SLIDE. THE STANDARDS DIDN'T.



Hardware available in White, Almond Frost, Brass, Satin Nickel or Oil Rubbed Bronze.

Sash-lock hardware seals weather-stripping against the frame as well as offers security.

Our remarkable tilt latch makes removal and reinstallation of sash easy.

Operating sash slides effortlessly, and is easy to tilt and remove.

Some companies treat their sliding window as a double hung on its side, compromising energy performance and shortening operating life. Our glider is designed to glider specifications and standards. Note the Ultrex® exterior, the generous amount of wood on the interior, the easy installation, the tilt-and-remove simplicity, and the sash-lock hardware. Jambs, weather-stripping, and sash interlock are specifically engineered to the unique performance requirements of the glider. No room for a swinging sash? The glider will fit right in, closely matching casement proportions and lines.

Triple sash option provides the appearance of a picture unit assembly.





Bay and Bow

TURN YOUR VIEW INTO A PANORAMA.



30° and 45°
bays add dimension
and light to a room.

For maximum air circulation, choose the smooth arc of a bay window with four or five operating casements.

Our head and seat boards use engineered wood for superior strength, stability, and durability. They can be factory-crafted and applied. Available in bare wood or white interior finish.

Choose from convenient factory mulling or order one of our mulling kits.

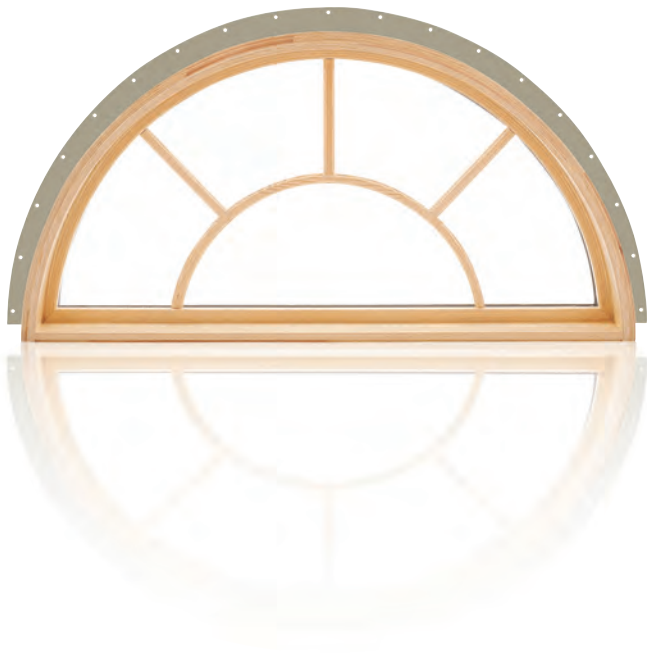
Extend the feeling of living space without adding square footage. The view-enhancing appeal of a bay or bow window is irresistible, especially when it features the low-maintenance exterior and finely finished wood interior of an Integrity® Double Hung or Casement window.





Round Top

A DYNAMIC COMPLEMENT TO TOP OFF YOUR DESIGN.



Simulated Divided Lites, Grilles-Between-the-Glass or Wood Interior Grilles add an authentic look and feel.

Exterior profile is shaped to complement the entire Integrity® from Marvin® line.

Match a Round Top to just about every Integrity window or door. Choose from quarter rounds, half rounds or ellipsicals. Standard Ultrex® exterior and backbone. Beautiful wood interiors. Multiple assemblies can add presence and value and make an ordinary room extraordinary.

An integral Ultrex nailing fin makes the unit exceedingly stable and extremely weather-tight. Available in full perimeter, radius only, or can be excluded.

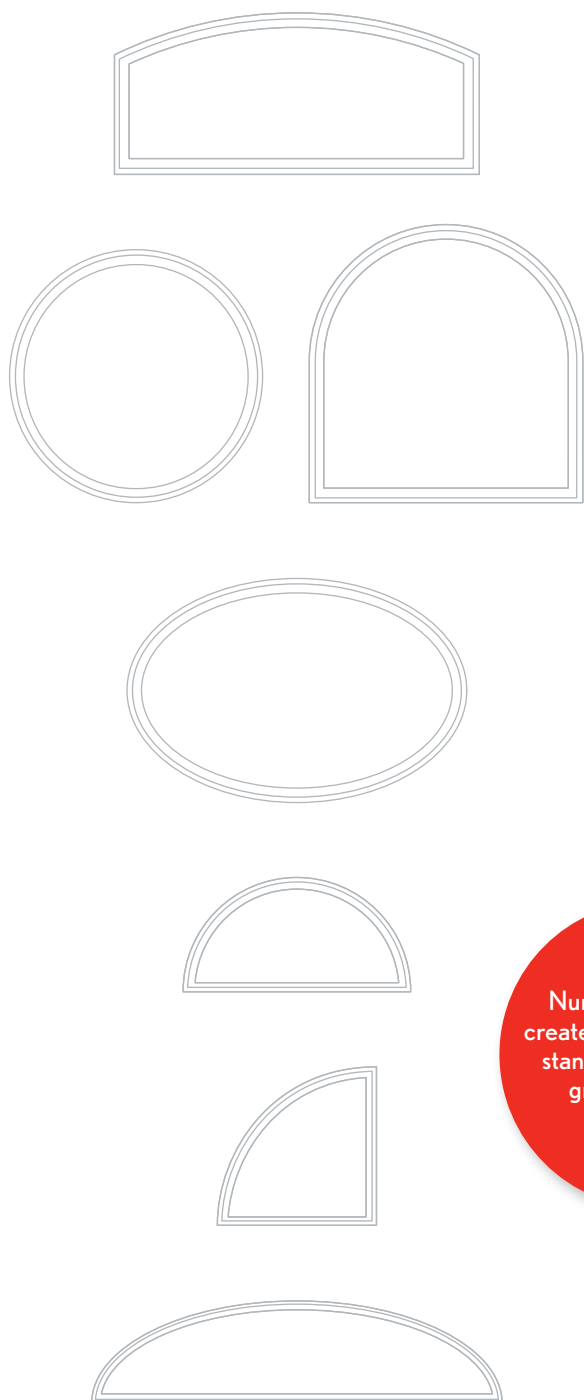




Made for Integrity®

Marvin® Round Tops

EASY OPTIONS. EASY INSTALLATION.



With more sizes, shapes and design options to work with, Marvin Round Tops made for Integrity make perfect sense for builders and homeowners.

Grilles-Between-the-Glass option is easy to clean and available in White interior with a Stone White, Pebble Gray, Cashmere, Bronze or Evergreen exterior. Wood Interior Grilles, featuring easy cleaning, are also available. Grilles come in bare wood or white finish.

On time delivery. That's why we provide easy ordering and consistent delivery of your entire order – including Marvin Round Tops – at the same time, in perfect shape, and ready to go.

Marvin Round Tops made for Integrity further expand your design possibilities. Designed to complement Integrity Windows and Doors. Available in a wide variety of sizes, shapes, and options. Extruded aluminum cladding protects against extreme weather conditions. Finish exceeds AAMA 2605-05 specifications. ENERGY STAR® rated. The proven quality of Marvin Windows and Doors (including comprehensive Marvin warranty). The quick lead times and reliable delivery of Integrity.

Numerous shapes to create a custom look with standard products – a great feature for homeowners.





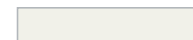
Grilles-Between-the-Glass



Simulated Divided Lites
(with or without spacer bar)



Wood Interior Grilles



Stone White



Pebble Gray



Cashmere



Bronze



Evergreen

Polygon

EXTEND YOUR CHOICES WITHOUT MISSING YOUR DEADLINE.



Standard jambs of $4 \frac{9}{16}$ " (116 mm), $6 \frac{9}{16}$ " (167 mm), and $6 \frac{13}{16}$ " (173 mm) are available factory applied or as an extension kit.

Interior is your choice of a contemporary white semi-gloss or bare wood you can stain or paint to match your interior.

Eight shapes including rectangles, triangles, pentagons, and octagons. Exceptional Integrity® performance. Use them as sidelights, transoms, and flankers for picture windows or create unique configurations.** Finally, a standard line of windows that look anything but standard.

Big views beg for big windows. Polygons are available with lengths of 96" and overall dimension of 49 square feet.*



Octagon



Isosceles Triangle



Pentagon



Rectangle



90° Triangle



Trapezoid

* Polygons maximum size is 72" x 96". When the longest leg exceeds 72" the shortest leg cannot exceed 72".

** Grille, GBG, and SDL options not available on polygons except direct glaze rectangles.





Sliding Patio

EXCEPTIONAL BEAUTY MEETS DAY-IN, DAY-OUT PERFORMANCE.



Our doors come with standard tempered LoE²-272[®] insulated glass with Argon gas or optional tempered LoE³-366[®] insulated glass with Argon gas.

Top hung screen won't get locked up on dirt or pebbles.

Handles available in White, Almond Frost, Brass PVD, Satin Nickel PVD, or Oil Rubbed Bronze PVD.

PVD is the highest grade finish available and offers superior corrosion resistance.

The strength and durability of Ultrex[®] where you need it most: on the sill, standing up to traffic and weather.

For a seamless interior, we finished the sill with an enduring oak liner.

Everything you want in a sliding door: Contemporary lines enhanced by a large daylight opening and a beautiful wood interior. The door glide is effortless and designed to withstand the elements with the exterior strength of Ultrex. Debris stays out with the reliable top hung screen. Choose from two-panel or three-panel configurations in the most popular sizes. Factory-assembled for easy installation.





Sliding French

YOUR PICTURE WINDOW DOESN'T HAVE TO BE A WINDOW.



Traditionally styled handles. Features a keyed cylinder and a dual point lock for added security and performance. Available in PVD Finishes.

Thin, low-friction polycarbonate track combined with dual ball-bearing rollers provides smooth, easy operation.

For a seamless interior, we finish the sill with an enduring oak sill liner.

Delivered with factory-assembled frames and pre-hung panels for easier installation.

Add an elegant, authentically French look to any home. A dramatic wide rail highlights this door's beautiful rich wood interior. And the Ultrex® exterior will stay beautiful and square for many years. Ultrex sill offers superior durability and energy performance. Available in two-panel and three-panel configurations and many popular sizes, including an 8' height for homes with taller ceilings. Comes with energy efficient standard LoE²-272® tempered glass or optional LoE³-366® tempered glass. Top-hung screen won't get hung up on debris.





Inswing French

IN THIS VERSION OF FRENCH, THE ACCENT IS ON STYLE.



Stainless steel multi-point locking system seals the door in four locations — head, sill, deadbolt, and keyed cylinder — for stability and security.

PVD is the highest grade finish available and offers superior corrosion resistance.

Adjustable hinges mean that as a home settles and shifts over time, our swinging door will still open and close easily. Available in Almond Frost, Goldtone, White, Gray, Dark Brown, Brass PVD, Satin Nickel PVD, or Coastal Dark Bronze.

Traditionally-styled handles available in White, Almond Frost, Brass PVD, Satin Nickel PVD and Oil Rubbed Bronze PVD.

Presenting an elegant way to say 'welcome.' The Inswing French Door features a rich wood interior, XX configuration, 8'-10' heights, always beautiful Ultrex® exterior, wide stiles and rails, Ultrex sill with interior oak sill liner, and a classic lever and escutcheon handle set. Virtually maintenance-free Ultrex exterior and sill provides exceptional strength, stability, and durability. The clear, smooth pine interior readily accepts paint or stain. Energy saving LoE²-272® tempered glass with Argon gas standard or select LoE³-366® tempered glass with Argon gas for enhanced performance.





Outswing French

STEP OUT WITH STYLE. STEP UP WITH PERFORMANCE.



Adjustable hinges available in White, Pebble Gray, Cashmere, Dark Brown, Evergreen, Coastal Satin Nickel, Coastal Dark Bronze and Coastal Brass.

Traditionally styled lever and escutcheon handle set available in White, Almond Frost, Brass PVD, Satin Nickel PVD and Oil Rubbed Bronze PVD.

Stainless steel multi-point locking system seals the door in four locations – head, sill, deadbolt, and keyed cylinder – for stability and security.

An oak sill liner can be painted or stained to match the solid wood interior.

Open your home with style and performance. Rich wood interiors, 8'-10' heights, XX configurations and wide stiles and rails make this door stand out from the crowd. Standard DP50 performance, stainless steel handle activated multi-point locking system, stainless steel fasteners, available PVD handle sets and optional adjustable hinge finishes make it stand up to the elements. Energy saving LoE²-272[®] tempered glass with Argon gas standard or select LoE³-366[®] tempered glass with Argon gas for enhanced performance.





ORDERING INTEGRITY® WINDOWS AND DOORS

Each product section offers product codes for ordering under each unit. Codes do not necessarily indicate product size. Metric millimeter measurements are in parentheses.

You'll notice four measurements for each window or door: masonry opening, rough opening, frame size and glass size. The masonry opening is for a home built with brick or stone; rough openings are for houses with wood, vinyl or metal siding. Frame size measures from edge to edge of the unit; glass size indicates the dimensions of the total glass, both visible and covered, in a single sash.

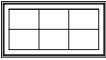
Mas. Opp. (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	4-0 1/2 (1232)
Rgh. Opp. (mm)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	4-1 (1245)
Frame Size (mm)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	4-0 (1219)
Glass Size (mm)	19 13/16" (503)	23 13/16" (605)	27 13/16" (706)	31 13/16" (808)	43 3/16" (1113)

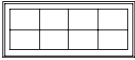
1-7 3/8 (492)
1-7 5/8 (498)
1-7 1/8 (486)
14 15/16" (379)


IAWN2519


IAWN2919

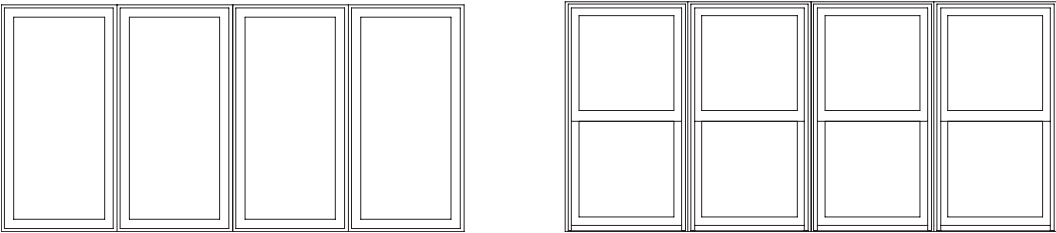

IAWN3319


IAWN3719

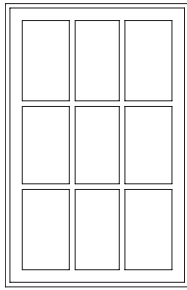

IAWN4919

Factory Mulling Options

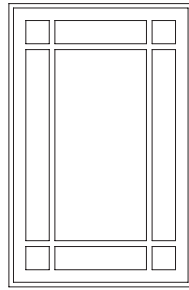
A variety of factory mulled combinations are available two units wide by two units high or four units wide by one unit high. Please contact your local *Integrity from Marvin®* representative for more information.



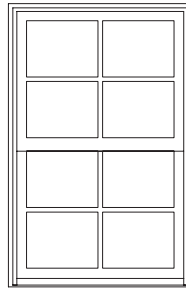
Windows



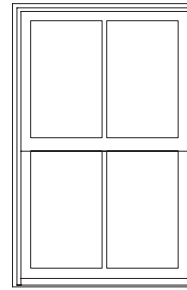
Rectangular
Available as Grilles, GBG, SDL and SDL with Spacer Bar*



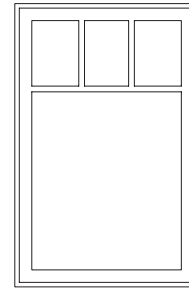
Prairie
Available as GBG, SDL and SDL with Spacer Bar*



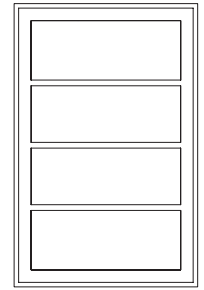
2w2h
Available as GBG, SDL and SDL with Spacer Bar*



2w1h
Available as GBG, SDL and SDL with Spacer Bar*

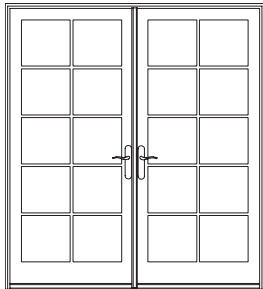


Cottage
Available as SDL and SDL with Spacer Bar*

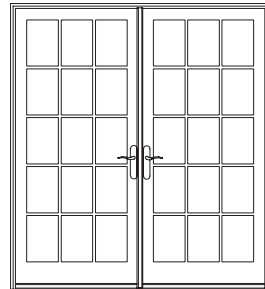


Equal Lite
Available as SDL and SDL with Spacer Bar*

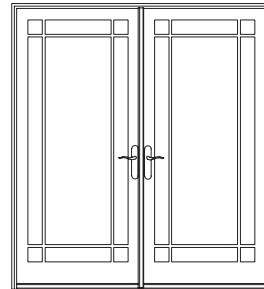
Doors



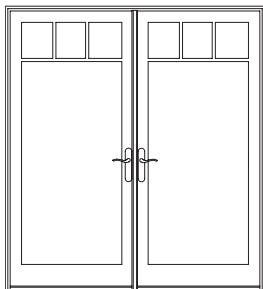
10/12 Lite
One vertical bar per panel available as GBG, SDL and SDL with Spacer Bar*



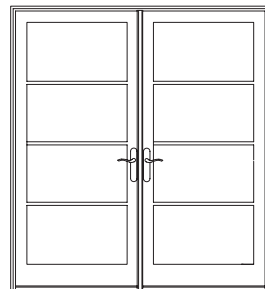
15/18 Lite
Two vertical bars per panel available as Grilles, GBG, SDL and SDL with Spacer Bar*



Prairie
Available as GBG, SDL and SDL with Spacer Bar*



Cottage
Available as SDL, and SDL with Spacer Bar*



Equal Lite
Available as SDL, and SDL with Spacer Bar*

* SDL available with or without Spacer Bar.

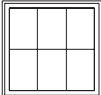
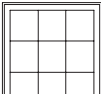
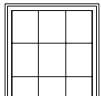
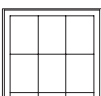
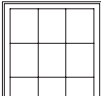
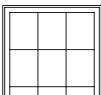
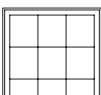
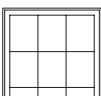
Cottage lite cut not available on Wood-Ultrex Double Hung.

Equal lite allows for the number of horizontal and vertical lites to be specified for a custom appearance.

Lite cuts are dependent on product type and size. Please consult your local Integrity from Marvin representative for details and availability.

CASEMENT

Operator/Stationary Units

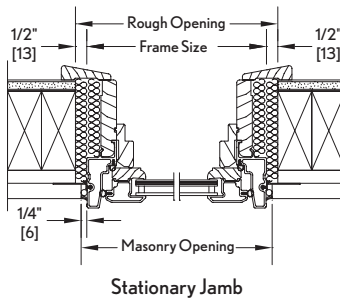
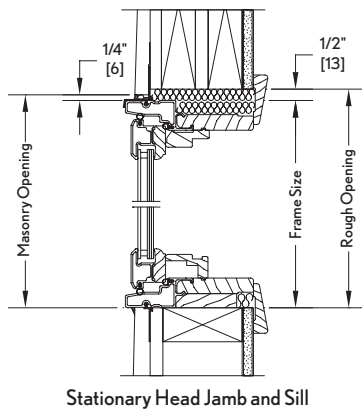
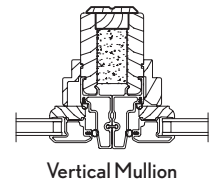
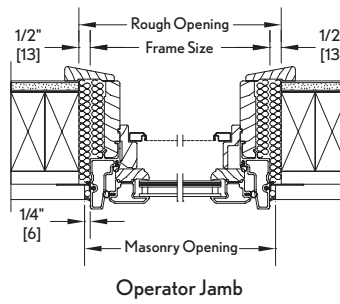
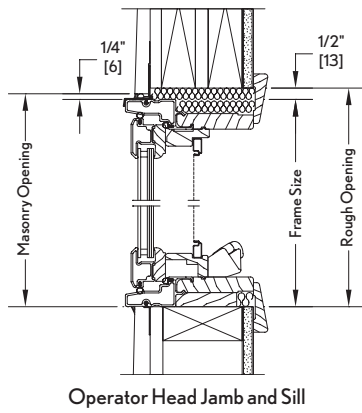
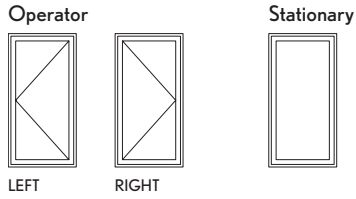
Mas. Opp. (mm)	1-4 1/2 (419)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)
Rgh. Opp. (mm)	1-5 (432)	1-9 (533)	2-1 (533)	2-5 (737)	2-9 (838)	3-1 (940)
Frame Size (mm)	1-4 (406)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)
Glass Size (mm)	11 13/16" (300)	15 13/16" (402)	19 13/16" (503)	23 13/16" (605)	27 13/16" (706)	31 13/16" (808)
2-7 3/8 (797) 2-7 5/8 (803) 2-7 1/8 (791) 26 15/16" (684)		 ICA2131	 ICA2531	 ICA2931	 ICA3331	 ICA3731
2-11 3/8 (898) 2-11 5/8 (905) 2-11 1/8 (892) 30 15/16" (786)	 ICA1735	 ICA2135	 ICA2535	 ICA2935	 ICA3335	 ICA3735**
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994) 34 15/16" (887)	 ICA1739	 ICA2139	 ICA2539	 ICA2939	 ICA3339**	 ICA3739**
3-7 1/2 (1105) 3-7 3/4 (1111) 3-7 1/4 (1099) 39 1/16" (992)	 ICA1743	 ICA2143	 ICA2543	 ICA2943*	 ICA3343*	 ICA3743*
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197) 42 15/16" (1091)	 ICA1747	 ICA2147	 ICA2547	 ICA2947*	 ICA3347*	 ICA3747*
4-7 3/8 (1406) 4-7 5/8 (1413) 4-7 1/8 (1400) 50 15/16" (1294)	 ICA1755	 ICA2155	 ICA2555	 ICA2955*	 ICA3355*	 ICA3755*
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502) 54 15/16" (1395)	 ICA1759	 ICA2159	 ICA2559	 ICA2959*	 ICA3359*	 ICA3759*
5-3 3/8 (1610) 5-3 5/8 (1616) 5-3 1/8 (1603) 58 15/16" (1497)	 ICA1763	 ICA2163	 ICA2563	 ICA2963*	 ICA3363*	 ICA3763*
5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 1/8 (1807) 66 15/16" (1700)	 ICA1771T	 ICA2171T	 ICA2571T	 ICA2971T*	 ICA3371T*	 ICA3771T*

CASEMENT

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

Construction Details

Casements available as an operator or stationary.
L or R hinging determined from exterior.



Details and Elevations not to scale.

T = Standard Tempered

Optional Casement Grilles, GBGs and SDLs are available in a standard Rectangular cut shown.

Other available lite cuts shown on page 39.

*These windows meet National Egress Codes for fire evacuation. Local codes may differ.

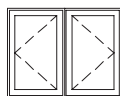
**3339, 3735, and 3739 meet Egress if installed at proper height from floor.

CASEMENT

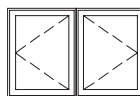
2 Wide Operator/Stationary Units

Mas. Opg. (mm)	2-8 1/2 (826)	3-4 1/2 (1029)	4-0 1/2 (1232)	4-8 1/2 (1435)
Rgh. Opg. (mm)	2-9 (838)	3-5 (1041)	4-1 (1245)	4-9 (1448)
Frame Size (mm)	2-8 (813)	3-4 (1016)	4-0 (1219)	4-8 (1422)

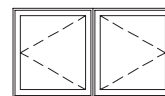
2-7 3/8 (797)
2-7 5/8 (803)
2-7 1/8 (791)



IICA2131 2W

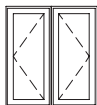


ICA2531 2W

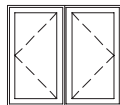


ICA2931 2W

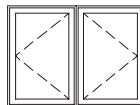
2-11 3/8 (898)
2-11 5/8 (905)
2-11 1/8 (892)



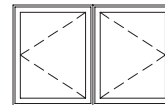
ICA1735 2W



ICA2135 2W

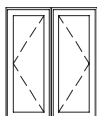


ICA2535 2W

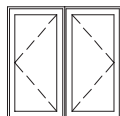


ICA2935 2W

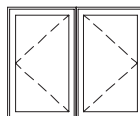
3-3 3/8 (1000)
3-3 5/8 (1006)
3-3 1/8 (994)



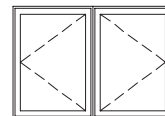
ICA1739 2W



ICA2139 2W

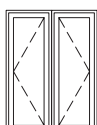


ICA2539 2W

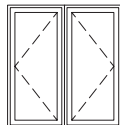


ICA2939 2W

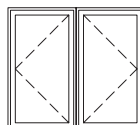
3-7 1/2 (1105)
3-7 3/4 (1111)
3-7 1/4 (1099)



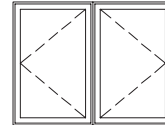
ICA1743 2W



ICA2143 2W

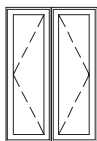


ICA2543 2W

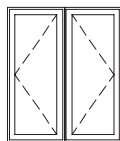


ICA2943 2W*

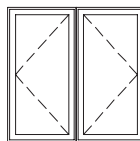
3-11 3/8 (1203)
3-11 5/8 (1210)
3-11 1/8 (1197)



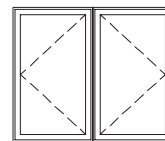
ICA1747 2W



ICA2147 2W

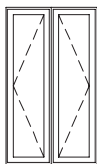


ICA2547 2W

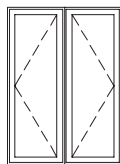


ICA2947 2W*

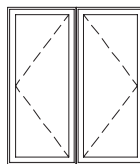
4-7 3/8 (1406)
4-7 5/8 (1413)
4-7 1/8 (1400)



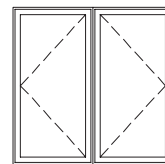
ICA1755 2W



ICA2155 2W

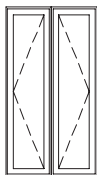


ICA2555 2W

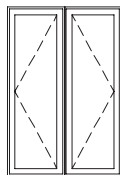


ICA2955 2W*

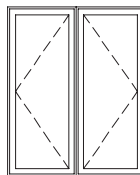
4-11 3/8 (1508)
4-11 5/8 (1514)
4-11 1/8 (1502)



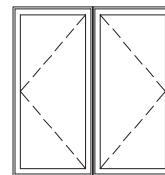
ICA1759 2W



ICA2159 2W

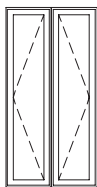


ICA2559 2W

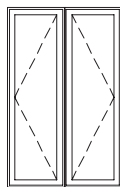


ICA2959 2W*

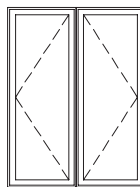
5-3 3/8 (1610)
5-3 5/8 (1616)
5-3 1/8 (1603)



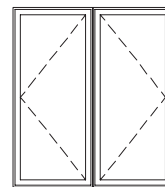
ICA1763 2W



ICA2163 2W

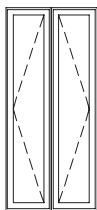


ICA2563 2W

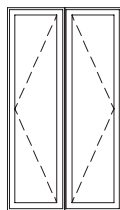


ICA2963 2W*

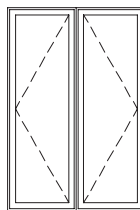
5-11 3/8 (1813)
5-11 5/8 (1819)
5-11 1/8 (1807)



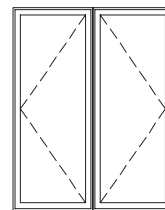
ICA1771 2W



ICA2171 2WT



ICA2571 2WT

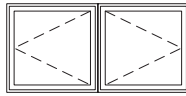


ICA2971 2WT*

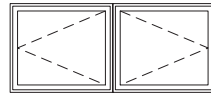
2 Wide Operator/Stationary Units

Mas. Opg. (mm)	5-4 1/2 (1638)	6-0 1/2 (1842)
Rgh. Opg. (mm)	5-5 (1651)	6-1 (1854)
Frame Size (mm)	5-4 (1626)	6-0 (1829)

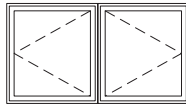
2-7 3/8 (797)	2-7 5/8 (803)	2-7 1/8 (791)
2-11 3/8 (898)	2-11 5/8 (905)	2-11 7/8 (892)
3-3 3/8 (1000)	3-3 5/8 (1006)	3-3 1/8 (994)
3-7 1/2 (1105)	3-7 3/4 (1111)	3-7 1/4 (1099)
3-11 3/8 (1203)	3-11 5/8 (1210)	3-11 1/8 (1197)
4-7 3/8 (1406)	4-7 5/8 (1413)	4-7 1/8 (1400)
4-11 3/8 (1508)	4-11 5/8 (1514)	4-11 1/8 (1502)
5-3 3/8 (1610)	5-3 5/8 (1616)	5-3 1/8 (1603)
5-11 3/8 (1813)	5-11 5/8 (1819)	5-11 1/8 (1807)



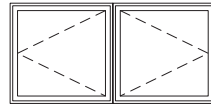
ICA3331 2W



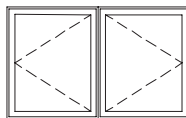
ICA3731 2W



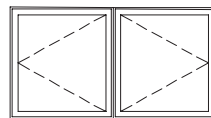
ICA3335 2W



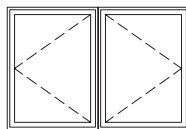
ICA3735 2W**



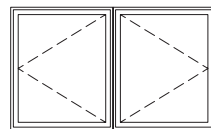
ICA3339 2W**



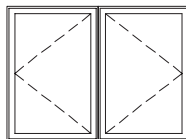
ICA3739 2W**



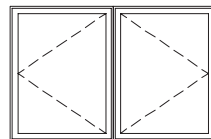
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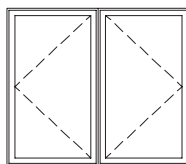
ICA3743 2W*



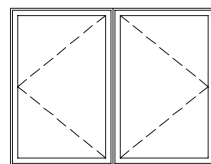
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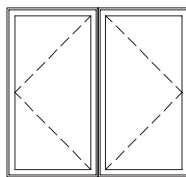
ICA3747 2W*



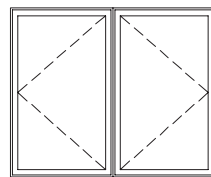
ICA3355 2W*



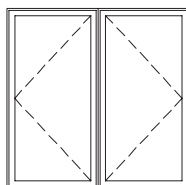
ICA3755 2W*



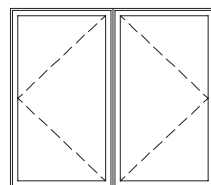
ICA3359 2W*



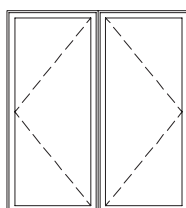
ICA3759 2W*



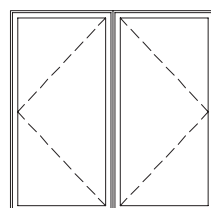
ICA3363 2W*



ICA3763 2W*



ICA3371 2WT*



ICA3771 2WT*

Details and Elevations not to scale.

T = Standard Tempered

*These windows meet National Egress Codes for fire evacuation. Local codes may differ.

**3339, 3735, and 3739 meet Egress if installed at proper height from floor.

Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied up to 4 units wide by 1 unit high,

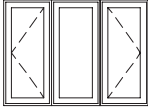
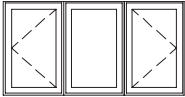
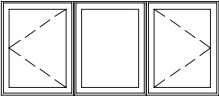
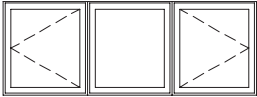
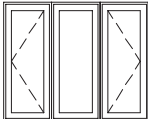
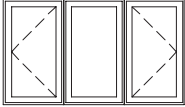
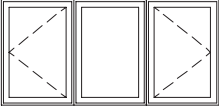
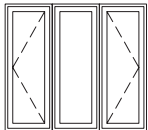
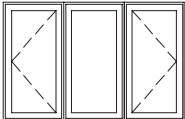
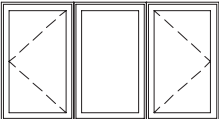
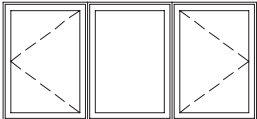
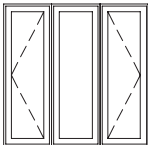
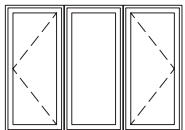
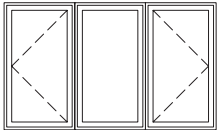
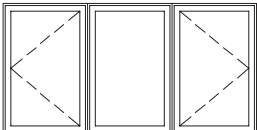
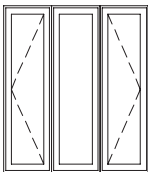
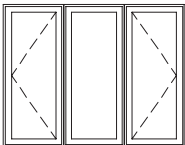
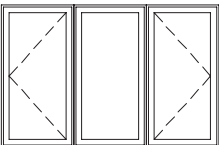
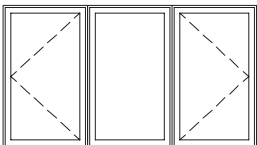
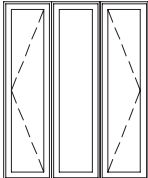
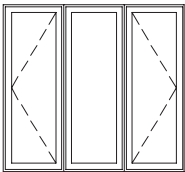
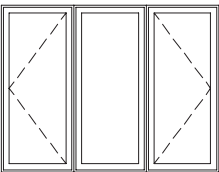
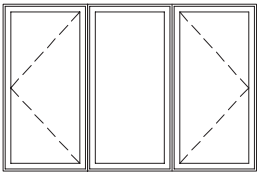
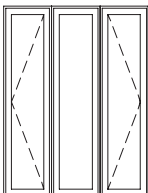
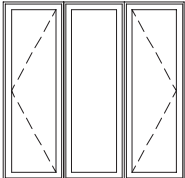
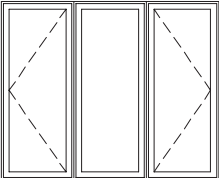
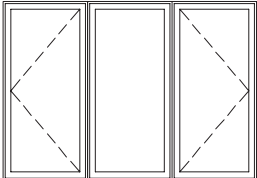
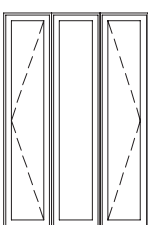
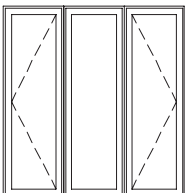
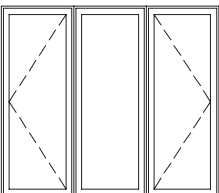
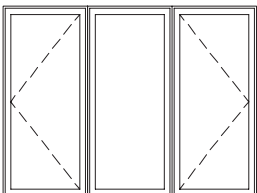
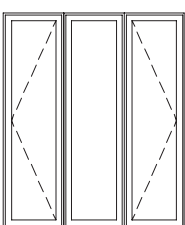
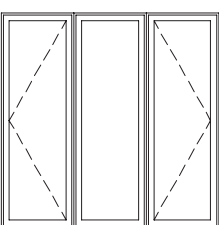
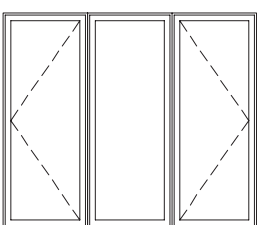
MAXIMUM ROUGH OPENING: not to exceed 113" x 71 5/8"; OR up to 2 units wide by 2 units high.

MAXIMUM ROUGH OPENING: not to exceed 73" x 94 3/4". Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

CASEMENT

3 Wide Operator/Stationary Units

Mas. Opg. (mm)	4-0 1/2 (1232)	5-0 1/2 (1537)	6-0 1/2 (1842)	7-0 1/2 (2146)
Rgh. Opg. (mm)	4-1 (1245)	5-1 (1549)	6-1 (1854)	7-1 (2159)
Frame Size (mm)	4-0 (1219)	5-0 (1524)	6-0 (1829)	7-0 (2134)

2-7 3/8 (797) 2-7 5/8 (803) 2-7 1/8 (791)				
	ICA1735 3W	ICA2131 3W	ICA2531 3W	ICA2931 3W
2-11 3/8 (898) 2-11 5/8 (905) 2-11 1/8 (892)				
	ICA1739 3W	ICA2135 3W	ICA2535 3W	ICA2935 3W
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)				
	ICA1743 3W	ICA2139 3W	ICA2539 3W	ICA2939 3W
3-7 1/2 (1105) 3-7 3/4 (1111) 3-7 1/4 (1099)				
	ICA1747 3W	ICA2143 3W	ICA2543 3W	ICA2943 3W*
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)				
	ICA1755 3W	ICA2147 3W	ICA2547 3W	ICA2947 3W*
4-7 3/8 (1406) 4-7 5/8 (1413) 4-7 1/8 (1400)				
	ICA1759 3W	ICA2155 3W	ICA2555 3W	ICA2955 3W*
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502)				
	ICA1763 3W	ICA2159 3W	ICA2559 3W	ICA2959 3W*
5-3 3/8 (1610) 5-3 5/8 (1616) 5-3 1/8 (1603)				
	ICA1771 3WT	ICA2163 3W	ICA2563 3W	ICA2963 3W*
5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 1/8 (1807)				
	ICA2171 3WT	ICA2571 3WT	ICA2971 3W*T	

3 Wide Operator/Stationary Units

Mas. Opg. (mm)	8-0 1/2 (2451)	9-0 1/2 (2756)
Rgh. Opg. (mm)	8-1 (2464)	9-1 (2769)
Frame Size (mm)	8-0 (2438)	9-0 (2743)

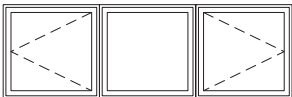
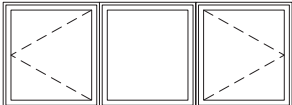
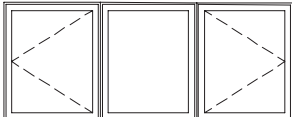
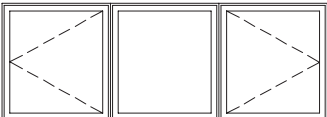
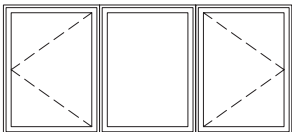
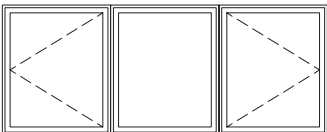
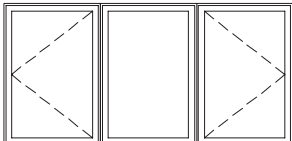
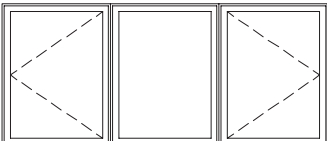
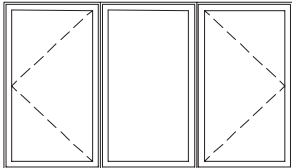
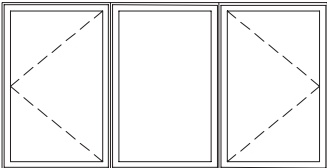
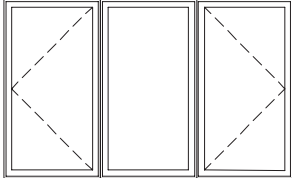
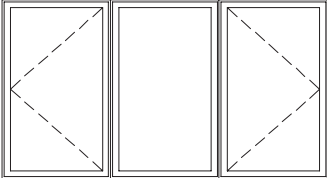
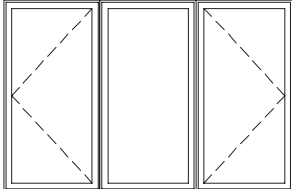
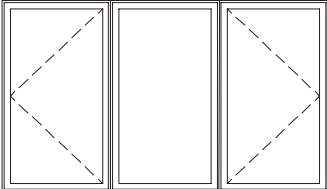
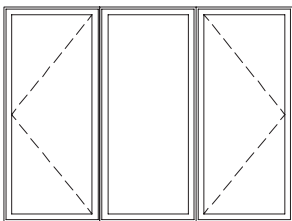
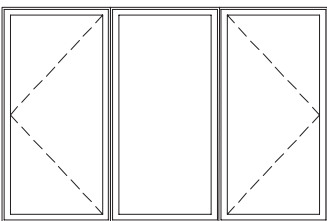
Details and Elevations not to scale.

T = Standard Tempered

*These windows meet National Egress Codes for fire evacuation. Local codes may differ.

**3339, 3735, and 3739 meet Egress if installed at proper height from floor.

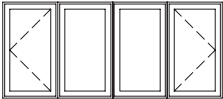
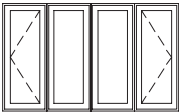
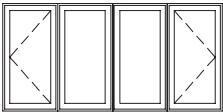
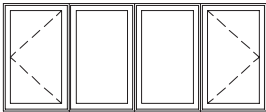
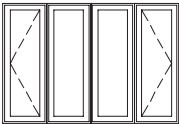
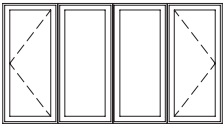
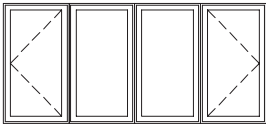
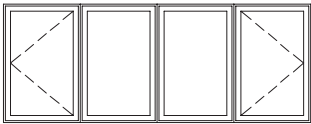
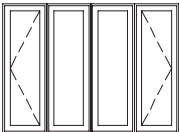
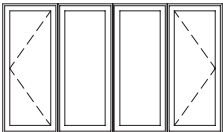
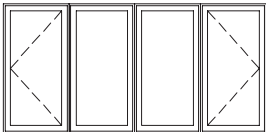
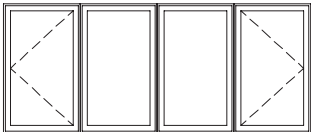
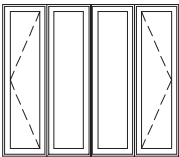
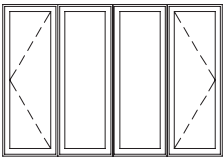
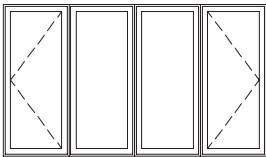
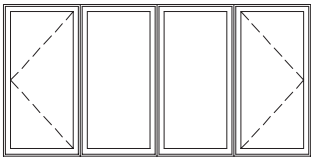
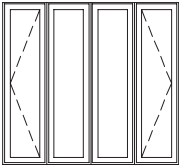
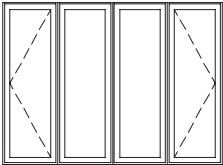
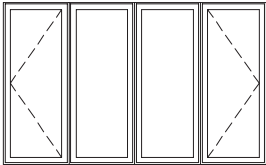
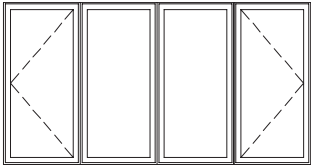
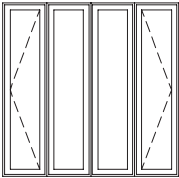
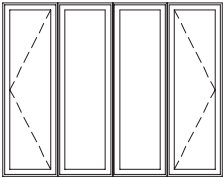
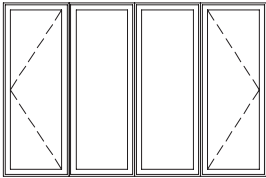
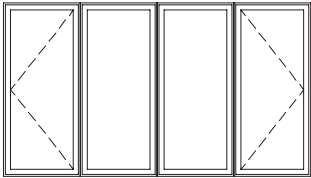
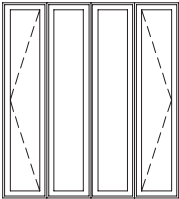
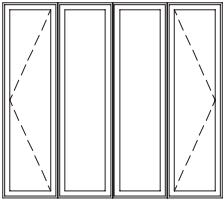
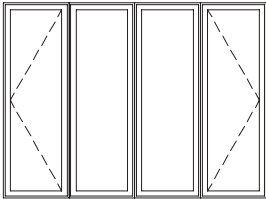
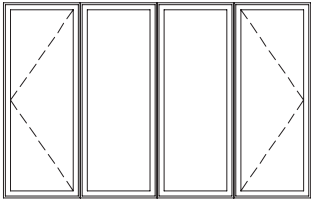
Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

2-7 3/8 (797) 2-7 5/8 (803) 2-7 1/8 (791)		
	ICA3331 3W	ICA3731 3W
2-11 3/8 (898) 2-11 5/8 (905) 2-11 1/8 (892)		
	ICA3335 3W	ICA3735 3W**
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994)		
	ICA3339 3W**	ICA3739 3W**
3-7 1/2 (1105) 3-7 3/4 (1111) 3-7 1/4 (1099)		
	ICA3343 3W*	ICA3743 3W*
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197)		
	ICA3347 3W*	ICA3747 3W*
4-7 3/8 (1406) 4-7 5/8 (1413) 4-7 1/8 (1400)		
	ICA3355 3W*	ICA3755 3W*
4-11 3/8 (1508) 4-11 5/8 (1514) 4-11 1/8 (1502)		
	ICA3359 3W*	ICA3759 3W*
5-3 3/8 (1610) 5-3 5/8 (1616) 5-3 1/8 (1603)		
	ICA3363 3W*	ICA3763 3W*
5-11 3/8 (1813) 5-11 5/8 (1819) 5-11 1/8 (1807)		
	ICA3371 3W*T	ICA3771 3W*T

CASEMENT

4 Wide Operator/Stationary Units

Mas. Opg. (mm)	5-4 1/2 (1638)	6-8 1/2 (2045)	8-0 1/2 (2451)	9-4 1/2 (2858)
Rgh. Opg. (mm)	5-5 (1651)	6-9 (2057)	8-1 (2464)	9-5 (2870)
Frame Size (mm)	5-4 (1626)	6-8 (2032)	8-0 (2438)	9-4 (2845)

2-7 3/8 (797)				
		ICA21314W	ICA25314W	ICA29314W
2-11 3/8 (898)				
	ICA1735 4W	ICA2135 4W	ICA2535 4W	ICA2935 4W
3-3 3/8 (1000)				
	ICA1739 4W	ICA2139 4W	ICA2539 4W	ICA2939 4W
3-7 1/2 (1105)				
	ICA1743 4W	ICA2143 4W	ICA2543 4W	ICA2943 4W*
3-11 3/8 (1203)				
	ICA1747 4W	ICA2147 4W	ICA2547 4W	ICA2947 4W*
4-7 3/8 (1406)				
	ICA1755 4W	ICA2155 4W	ICA2555 4W	ICA2955 4W*
4-11 3/8 (1508)				
	ICA1759 4W	ICA2159 4W	ICA2559 4W	ICA2959 4W*
5-3 3/8 (1610)				
	ICA1763 4W	ICA2163 4W	ICA2563 4W	ICA2963 4W*
5-11 3/8 (1807)				
	ICA1771 4WT	ICA2171 4WT	ICA2571 4WT	ICA2971 4W*T

In-Sash Transoms

Mas. Opg. (mm)	1-8 1/2 (521)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	6-0 1/2 (1842)
Rgh. Opg. (mm)	1-9 (533)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	6-1 (1854)
Frame Size (mm)	1-8 (508)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	6-0 (1829)
Glass Size (mm)	15 13/16" (402)	19 13/16" (503)	23 13/16" (605)	27 13/16" (706)	29 13/16" (757)	69 3/16" (1757)

1-4 (406)
1-4 1/4 (413)
1-3 3/4 (400)
119/16" (294)



ICATR2116



ICATR2516



ICATR2916

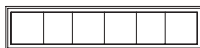


ICATR3316



ICATR3716

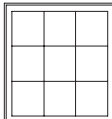
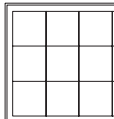
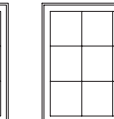
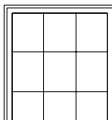
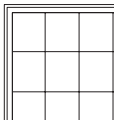
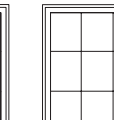
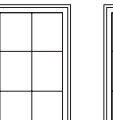
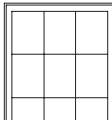
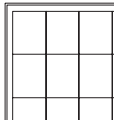
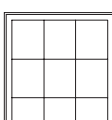
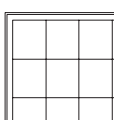
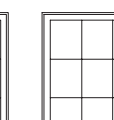
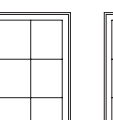
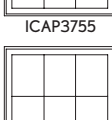
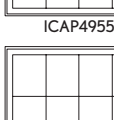
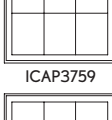
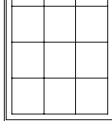
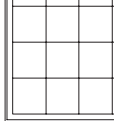
1-4 (406)
1-4 1/4 (413)
1-3 3/4 (400)
12 15/16" (329)



ICADG7316

Picture Unit

Mas. Opg. (mm)	3-0 1/2 (927)	4-0 1/2 (1232)	4-8 1/2 (1435)	6-0 1/2 (1842)
Rgh. Opg. (mm)	3-1 (940)	4-1 (1245)	4-9 (1448)	6-1 (1854)
Frame Size (mm)	3-0 (914)	4-0 (1219)	4-8 (1422)	6-0 (1829)
Glass Size (mm)	31 13/16" (808)	43 13/16" (1113)	51 13/16" (1316)	67 13/16" (1722)

3-3 3/8 (1000)				
3-3 5/8 (1006)				
3-3 7/8 (994)				
3-4 15/16 (887)				
3-7 1/2 (1105)				
3-7 3/4 (1111)				
3-7 1/4 (1099)				
3-8 15/16 (988)				
3-11 3/8 (1203)				
3-11 5/8 (1210)				
3-11 1/8 (1197)				
4-2 15/16 (1091)				
4-7 3/8 (1407)				
4-7 5/8 (1413)				
4-7 1/8 (1400)				
50 15/16 (1294)				
4-11 3/8 (1508)				
4-11 5/8 (1514)				
4-11 1/8 (1502)				
54 15/16 (1395)				
5-3 3/8 (1610)				
5-3 5/8 (1616)				
5-3 1/8 (1603)				
58 15/16 (1497)				
5-11 3/8 (1813)				
5-11 5/8 (1819)				
5-11 1/8 (1807)				
66 15/16 (1700)				

Details and Elevations not to scale.

T = Standard Tempered

Optional picture Grilles, GBGs and SDLs are available in a standard Rectangular cut, as shown. Also available in Prairie lite cuts shown on page 39.

*These windows meet National Egress Codes for fire evacuation. Local codes may differ.

Any ICA unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

Direct Glaze Transom

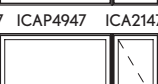
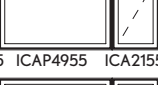


ICADG7316

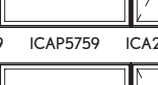
Optional transom grilles, GBGs and SDLs are available in standard Rectangular cut, as shown. Alternate lite cuts available to align with select lite cut options shown on page 39.

Unequal lite cuts on Direct Glaze Transoms. GBG and SDL in an ICADG 7316 will line up over a 25-3W ICA only. Direct Glaze Rectangles also available, see Polygons, pages 78 & 79.

Multiple Assemblies/21" Casement Flankers with Picture Center Unit

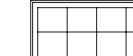
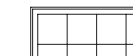
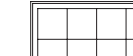
3-3 3/8 (1000)			
3-3 5/8 (1006)			
3-3 7/8 (994)			
3-11 3/8 (1203)			
3-11 5/8 (1210)			
3-11 1/8 (1197)			
4-7 3/8 (1406)			
4-7 5/8 (1413)			
4-7 1/8 (1400)			
4-11 3/8 (1508)			
4-11 5/8 (1514)			
4-11 1/8 (1502)			

Mas. Opg. (mm)	8-0 1/2 (2451)
Rgh. Opg. (mm)	8-1 (2464)
Frame Size (mm)	8-0 (2438)

4-11 3/8 (1508)			
4-11 5/8 (1514)			
4-11 1/8 (1502)			
5-3 3/8 (1610)			
5-3 5/8 (1616)			
5-3 1/8 (1603)			

Operator/Stationary Units

Mas. Opp. (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	3-0 1/2 (927)	4-0 1/2 (1232)
Rgh. Opp. (mm)	2-1 (635)	2-5 (737)	2-9 (838)	3-1 (940)	4-1 (1245)
Frame Size (mm)	2-0 (610)	2-4 (711)	2-8 (813)	3-0 (914)	4-0 (1219)
Glass Size (mm)	19 13/16" (503)	23 13/16" (605)	27 13/16" (706)	31 13/16" (808)	43 13/16" (1113)

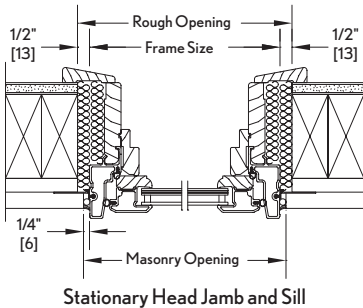
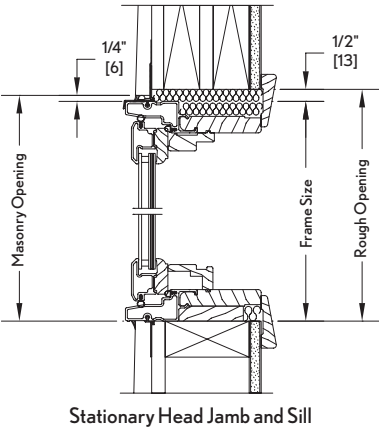
1-7 3/8 (492) 1-7 5/8 (498) 1-7 1/8 (486) 14 15/16" (379)	 IAWN2519	 IAWN2919	 IAWN3319	 IAWN3719	 IAWN4919T
1-11 3/8 (594) 1-11 5/8 (600) 1-11 1/8 (587) 18 15/16" (481)	 IAWN2523	 IAWN2923	 IAWN3323	 IAWN3723	 IAWN4923T
2-3 3/8 (695) 2-3 5/8 (702) 2-3 1/8 (689) 22 15/16" (583)	 IAWN2527	 IAWN2927	 IAWN3327	 IAWN3727	 IAWN4927T
2-11 3/8 (899) 2-11 5/8 (905) 2-11 1/8 (892) 30 15/16" (786)			 IAWN3735	 IAWN4935T	
3-3 3/8 (1000) 3-3 5/8 (1006) 3-3 1/8 (994) 34 15/16" (887)			 IAWN3739T	 IAWN4939T	
3-11 3/8 (1203) 3-11 5/8 (1210) 3-11 1/8 (1197) 42 15/16" (1091)			 IAWN3747T	 IAWN4947T	

Details and Elevations not to scale.

T = Standard Tempered

Optional Awning Grilles, GBGs and SDLs are available in a standard Rectangular cut shown. Other Available lite cuts shown on page 39.

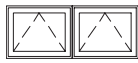
Construction Details



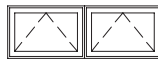
2 Wide Operator/Stationary Units

Mas. Opg. (mm)	4-0 1/2 (1232)	4-8 1/2 (1435)	5-4 1/2 (1638)
Rgh. Opg. (mm)	4-1 (1245)	4-9 (1448)	5-5 (1651)
Frame Size (mm)	4-0 (1219)	4-8 (1422)	5-4 (1626)

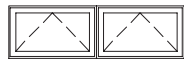
1-7 3/8 (492)	1-7 5/8 (498)	1-7 1/8 (486)
1-11 3/8 (594)	1-11 5/8 (600)	1-11 1/8 (587)
2-3 3/8 (695)	2-3 5/8 (702)	2-3 1/8 (689)



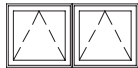
IAWN2519 2W



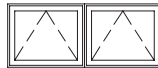
IAWN2919 2W



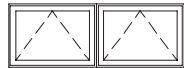
IAWN3319 2W



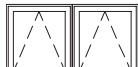
IAWN2523 2W



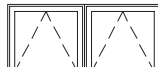
IAWN2923 2W



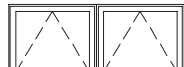
IAWN3323 2W



IAWN2527 2W



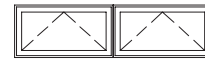
IAWN2927 2W



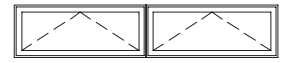
IAWN3327 2W

Mas. Opg. (mm)	6-0 1/2 (1842)	8-0 1/2 (2451)
Rgh. Opg. (mm)	6-1 (1854)	8-1 (2464)
Frame Size (mm)	6-0 (1829)	8-0 (2438)

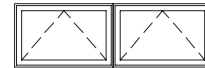
1-7 3/8 (492)	1-7 5/8 (498)	1-7 1/8 (486)
1-11 3/8 (594)	1-11 5/8 (600)	1-11 1/8 (587)
2-3 3/8 (695)	2-3 5/8 (702)	2-3 1/8 (689)
2-11 3/8 (899)	2-11 5/8 (905)	2-11 1/8 (892)
3-3 3/8 (1000)	3-3 5/8 (1006)	3-3 1/8 (994)
3-11 3/8 (1203)	3-11 5/8 (1210)	3-11 1/8 (1197)



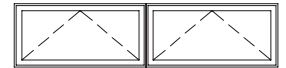
IAWN3719 2W



IAWN4919 2W



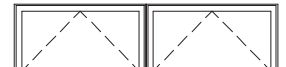
IAWN3723 2W



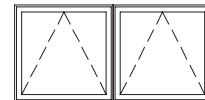
IAWN4923 2W



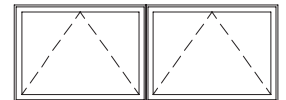
IAWN3727 2W



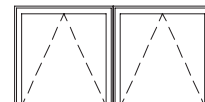
IAWN4927 2W



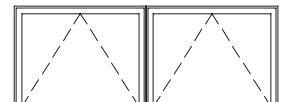
IAWN3735 2W



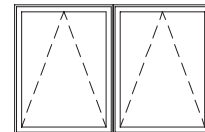
IAWN4935 2W



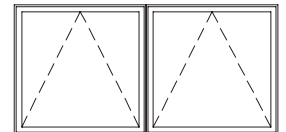
IAWN3739 2W



IAWN4939 2W



IAWN3747 2W

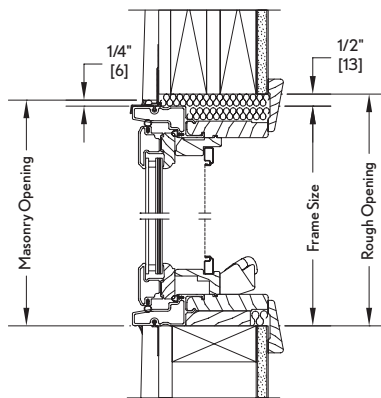


IAWN4947 2W

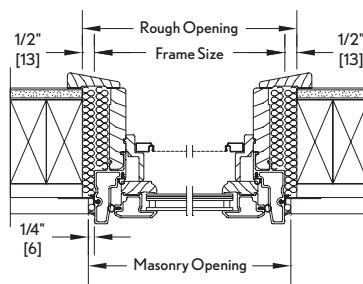
Details and Elevations not to scale.

Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

Construction Details



Operator Head Jamb and Sill



Operator Head Jamb and Sill

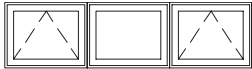
3 Wide Operator/Stationary Units

Mas. Opp. (mm)	6-0 1/2 (1842)	7-0 1/2 (2146)
Rgh. Opp. (mm)	6-1 (1854)	7-1 (2159)
Frame Size (mm)	6-0 (1829)	7-0 (2134)

1-7 3/8 (492)
1-7 5/8 (498)
1-7 1/8 (486)

1-11 3/8 (594)
1-11 5/8 (600)
1-11 1/8 (587)

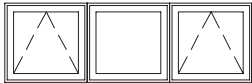
2-3 3/8 (695)
2-3 5/8 (702)
2-3 1/8 (689)



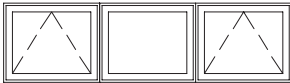
IAWN2519 3W



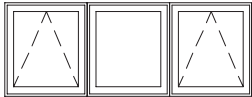
IAWN2919 3W



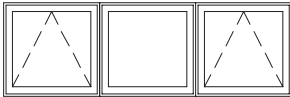
IAWN2523 3W



IAWN2923 3W



IAWN2527 3W



IAWN2927 3W

Mas. Opp. (mm)	8-0 1/2 (2451)	9-0 1/2 (2756)
Rgh. Opp. (mm)	8-1 (2464)	9-1 (2769)
Frame Size (mm)	8-0 (2438)	9-0 (2743)

1-7 3/8 (492)
1-7 5/8 (498)
1-7 1/8 (486)

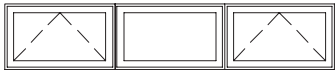
1-11 3/8 (594)
1-11 5/8 (600)
1-11 1/8 (587)

2-3 3/8 (695)
2-3 5/8 (702)
2-3 1/8 (689)

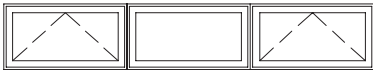
2-11 3/8 (899)
2-11 5/8 (905)
2-11 1/8 (892)

3-3 3/8 (1000)
3-3 5/8 (1006)
3-3 1/8 (994)

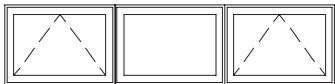
3-11 3/8 (1203)
3-11 5/8 (1210)
3-11 1/8 (1197)



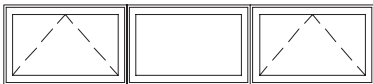
IAWN3319 3W



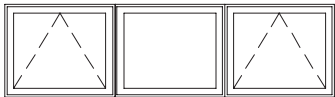
IAWN3719 3W



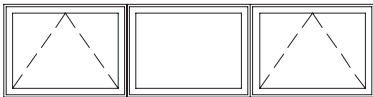
IAWN3323 3W



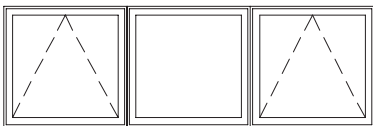
IAWN3723 3W



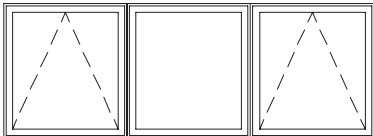
IAWN3327 3W



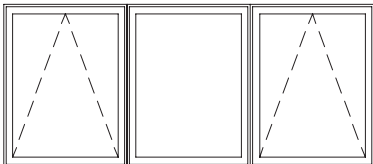
IAWN3727 3W



IAWN3735 3W



IAWN3739 3W



IAWN3747 3W

Details and Elevations not to scale.

Any unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

Operator Units

Mas. Opg. (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	3-2 (965)	3-6 (1067)
Rgh. Opg. (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)
Frame Size (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)
Glass Size (mm)	16 3/4" (425)	20 3/4" (527)	24 3/4" (629)	26 3/4" (679)	28 3/4" (730)	30 3/4" (781)	32 3/4" (832)	36 3/4" (933)

3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908) 14 3/4 (375)	 ITDH2236	 ITDH2636	 ITDH3036	 ITDH3236	 ITDH3436	 ITDH3636	 ITDH3836	 ITDH4236
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010) 16 3/4 (425)	 ITDH2240	 ITDH2640	 ITDH3040	 ITDH3240	 ITDH3440	 ITDH3640	 ITDH3840	 ITDH4240
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111) 18 3/4 (476)	 ITDH2244	 ITDH2644	 ITDH3044	 ITDH3244	 ITDH3444	 ITDH3644	 ITDH3844	 ITDH4244
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213) 20 3/4 (527)	 ITDH2248	 ITDH2648	 ITDH3048	 ITDH3248	 ITDH3448	 ITDH3648	 ITDH3848	 ITDH4248
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314) 22 3/4 (578)	 ITDH2252	 ITDH2652	 ITDH3052	 ITDH3252	 ITDH3452	 ITDH3652	 ITDH3852	 ITDH4252
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416) 24 3/4 (629)	 ITDH2256	 ITDH2656	 ITDH3056	 ITDH3256	 ITDH3456	 ITDH3656	 ITDH3856*	 ITDH4256*
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518) 26 3/4 (679)	 ITDH2260	 ITDH2660	 ITDH3060	 ITDH3260	 ITDH3460	 ITDH3660*	 ITDH3860*	 ITDH4260*
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619) 28 3/4 (730)	 ITDH2264	 ITDH2664	 ITDH3064	 ITDH3264*	 ITDH3464*	 ITDH3664*	 ITDH3864*	 ITDH4264*

Details and Elevations not to scale.

Optional Double Hung Grilles, GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 39.

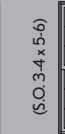
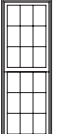
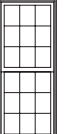
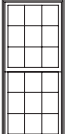
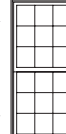
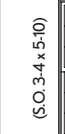
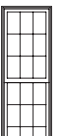
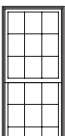
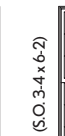
When ordering 6 9/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

DOUBLE HUNG

Operator Units

Mas. Opp. (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (813)	2-10 (864)	3-0 (914)	3-2 (965)	3-6 (1067)
Rgh. Opp. (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)
Frame Size (mm)	1-9 1/2 (546)	2-1 1/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-1 1/2 (953)	3-5 1/2 (1054)
Glass Size (mm)	16 3/4" (425)	20 3/4" (527)	24 3/4" (629)	26 3/4" (679)	28 3/4" (730)	30 3/4" (781)	32 3/4" (832)	36 3/4" (933)

5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721) 30 3/4" (781)	 ITDH2268	 ITDH2668	 ITDH3068*	 ITDH3268*	 ITDH3468*	 ITDH3668*	 ITDH3868*	 ITDH4268*
6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822) 32 3/4" (832)	 ITDH2272	 ITDH2672	 ITDH3072*	 ITDH3272*	 ITDH3472*	 ITDH3672*	 ITDH3872*	 ITDH4272*
6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924) 34 3/4" (883)	 ITDH2276	 ITDH2676	 ITDH3076*	 ITDH3276*	 ITDH3476*	 ITDH3676*	 ITDH3876*	 ITDH4276*

Details and Elevations not to scale.

Optional Double Hung Grilles, GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 39.

When ordering 6 7/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

■ = Available in Cottage Style with unequal sash. Cottage Style Glass size (min) 36 3/4" (933) / 24 3/4" (629).

2 Wide Operator Units

Mas. Opp. (mm)	3-7 1/2 (1105)	4-3 1/2 (1308)	4-11 1/2 (1511)	5-3 1/2 (1613)	5-7 1/2 (1715)	5-11 1/2 (1816)	6-3 1/2 (1918)	6-11 1/2 (2121)
Rgh. Opp. (mm)	3-8 (1118)	4-4 (1321)	5-0 (1524)	5-4 (1626)	5-8 (1727)	6-0 (1829)	6-4 (1930)	7-0 (2134)
Frame Size (mm)	3-7 (1092)	4-3 (1295)	4-11 (1499)	5-3 (1600)	5-7 (1702)	5-11 (1803)	6-3 (1905)	6-11 (2108)

3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908)	 ITDH2236 2W	 ITDH2636 2W	 ITDH3036 2W	 ITDH3236 2W	 ITDH3436 2W	 ITDH3636 2W	 ITDH3836 2W	 ITDH4236 2W
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010)	 ITDH2240 2W	 ITDH2640 2W	 ITDH3040 2W	 ITDH3240 2W	 ITDH3440 2W	 ITDH3640 2W	 ITDH3840 2W	 ITDH4240 2W
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111)	 ITDH2244 2W	 ITDH2644 2W	 ITDH3044 2W	 ITDH3244 2W	 ITDH3444 2W	 ITDH3644 2W	 ITDH3844 2W	 ITDH4244 2W
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)	 ITDH2248 2W	 ITDH2648 2W	 ITDH3048 2W	 ITDH3248 2W	 ITDH3448 2W	 ITDH3648 2W	 ITDH3848 2W	 ITDH4248 2W

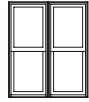
DOUBLE HUNG

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

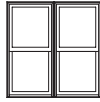
2 Wide Operator Units

Mas. Opg. (mm)	3-7 1/2 (1105)	4-3 1/2 (1308)	4-11 1/2 (1511)	5-3 1/2 (1613)	5-7 1/2 (1715)	5-11 1/2 (1816)	6-3 1/2 (1918)	6-11 1/2 (2121)
Rgh. Opg. (mm)	3-8 (1118)	4-4 (1321)	5-0 (1524)	5-4 (1626)	5-8 (1727)	6-0 (1829)	6-4 (1930)	7-0 (2134)
Frame Size (mm)	3-7 (1092)	4-3 (1295)	4-11 (1499)	5-3 (1600)	5-7 (1702)	5-11 (1803)	6-3 (1905)	6-11 (2108)

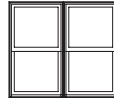
4-4 (1321)
4-4 1/4 (1327)
4-3 3/4 (1314)



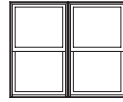
ITDH2252 2W



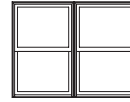
ITDH2652 2W



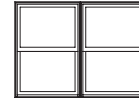
ITDH3052 2W



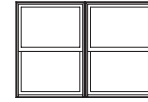
ITDH3252 2W



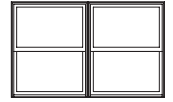
ITDH3452 2W



ITDH3652 2W

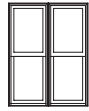


ITDH3852 2W

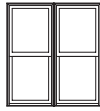


ITDH4252 2W

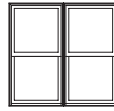
4-8 (1422)
4-8 1/4 (1429)
4-7 3/4 (1416)



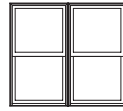
ITDH2256 2W



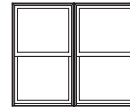
ITDH2656 2W



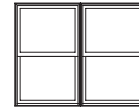
ITDH3056 2W



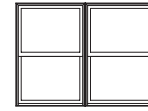
ITDH3256 2W



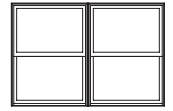
ITDH3456 2W



ITDH3656 2W



ITDH3856 2W*

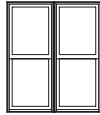


ITDH4256 2W*

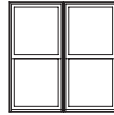
5-0 (1524)
5-0 1/4 (1530)
4-11 3/4 (1518)



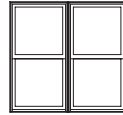
ITDH2260 2W



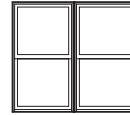
ITDH2660 2W



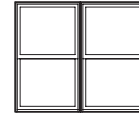
ITDH3060 2W



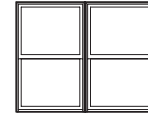
ITDH3260 2W



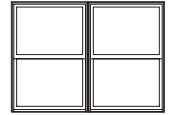
ITDH3460 2W



ITDH3660 2W*



ITDH3860 2W*

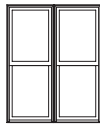


ITDH4260 2W*

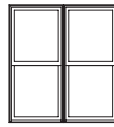
5-4 (1626)
5-4 1/4 (1632)
5-3 3/4 (1619)



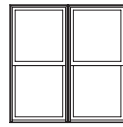
ITDH2264 2W



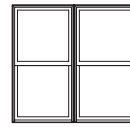
ITDH2664 2W



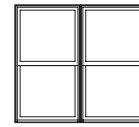
ITDH3064 2W



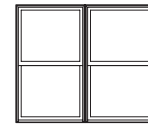
ITDH3264 2W*



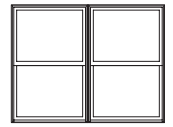
ITDH3464 2W*



ITDH3664 2W*



ITDH3864 2W*



ITDH4264 2W*

5-8 (1727)
5-8 1/4 (1734)
5-7 3/4 (1721)



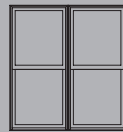
ITDH2268 2W



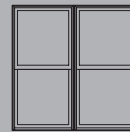
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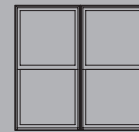
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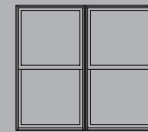
ITDH3268 2W*



ITDH3468 2W



ITDH3668 2W



ITDH3868 2W*

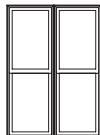


ITDH4268 2W*

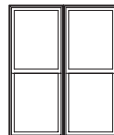
6-0 (1829)
6-0 1/4 (1835)
5-11 3/4 (1822)



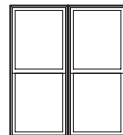
ITDH2272 2W



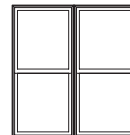
ITDH2672 2W



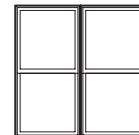
ITDH3072 2W*



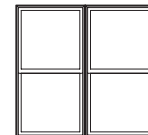
ITDH3272 2W*



ITDH3472 2W*



ITDH3672 2W*

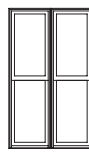


ITDH3872 2W*

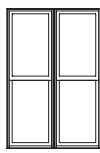


ITDH4272 2W*

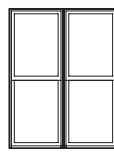
6-4 (1930)
6-4 1/4 (1937)
6-3 3/4 (1924)



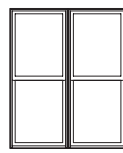
ITDH2276 2W



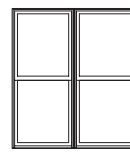
ITDH2676 2W



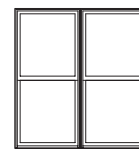
ITDH3076 2W*



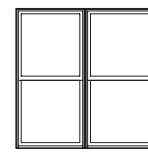
ITDH3276 2W*



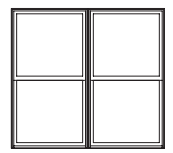
ITDH3476 2W*



ITDH3676 2W*



ITDH3876 2W*

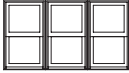
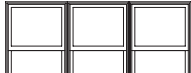
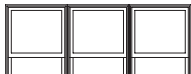


ITDH4276 2W*

DOUBLE HUNG

3 Wide Operator Units - 22", 26", 30", 32" Widths

Mas. Opp. (mm)	5-5 (1651)	6-5 (1956)	7-5 (2261)	7-11 (2413)
Rgh. Opp. (mm)	5-5 1/2 (1664)	6-5 1/2 (1969)	7-5 1/2 (2273)	7-11 1/2 (2426)
Frame Size (mm)	5-4 1/2 (1638)	6-4 1/2 (1943)	7-4 1/2 (2248)	7-10 1/2 (2400)

3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908)	 ITDH2236 3W	 ITDH2636 3W	 ITDH3036 3W	 ITDH3236 3W
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010)	 ITDH2240 3W	 ITDH2640 3W	 ITDH3040 3W	 ITDH3240 3W
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111)	 ITDH2244 3W	 ITDH2644 3W	 ITDH3044 3W	 ITDH3244 3W
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)	 ITDH2248 3W	 ITDH2648 3W	 ITDH3048 3W	 ITDH3248 3W
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)	 ITDH2252 3W	 ITDH2652 3W	 ITDH3052 3W	 ITDH3252 3W
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)	 ITDH2256 3W	 ITDH2656 3W	 ITDH3056 3W	 ITDH3256 3W
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)	 ITDH2260 3W	 ITDH2660 3W	 ITDH3060 3W	 ITDH3260 3W
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)	 ITDH2264 3W	 ITDH2664 3W	 ITDH3064 3W	 ITDH3264 3W
5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)	 ITDH2268 3W	 ITDH2668 3W	 ITDH3068 3W	 ITDH3268 3W
6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822)	 ITDH2272 3W	 ITDH2672 3W	 ITDH3072 3W	 ITDH3272 3W
6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924)	 ITDH2276 3W	 ITDH2676 3W	 ITDH3076 3W	 ITDH3276 3W

Details and Elevations not to scale.

When ordering 6 5/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

■ = Available in Cottage Style with unequal sash.
Cottage Style Glass size (min) 36 3/4" (933) / 24 3/4" (629).

See page 96 for specific DP ratings.

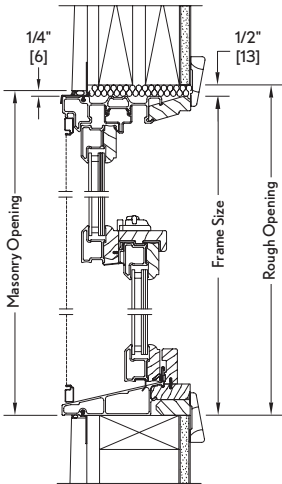
MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled up to 4 units wide by 1 unit high,

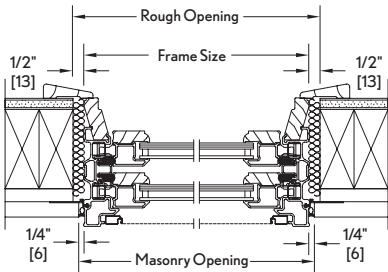
MAXIMUM ROUGH OPENING
not to exceed 113 1/2" x 76 1/4"; OR
up to 2 units wide by 2 units high.

MAXIMUM ROUGH OPENING:
not to exceed 84" x 96". Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

Construction Details



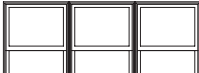
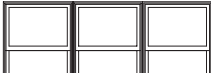
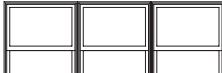
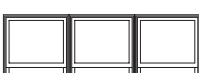
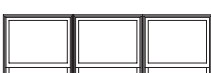
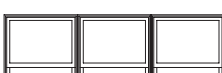
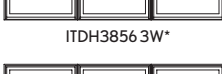
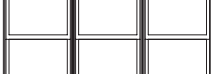
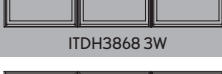
Operator Head Jamb and Sill



Operator Jamb

3 Wide Operator Units - 34", 36", 38" Widths

Mas. Opg. (mm)	8-5 (2565)	8-11 (2718)	9-5 (2870)
Rgh. Opg. (mm)	8-5 1/2 (2578)	8-11 1/2 (2731)	9-5 1/2 (2883)
Frame Size (mm)	8-4 1/2 (2553)	8-10 1/2 (2705)	9-4 1/2 (2858)

3-0 (914) 3-0 1/4 (921) 2-1 3/4 (908)	 ITDH3436 3W	 ITDH3636 3W	 ITDH3836 3W
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010)	 ITDH3440 3W	 ITDH3640 3W	 ITDH3840 3W
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111)	 ITDH3444 3W	 ITDH3644 3W	 ITDH3844 3W
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)	 ITDH3448 3W	 ITDH3648 3W	 ITDH3848 3W
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)	 ITDH3452 3W	 ITDH3652 3W	 ITDH3852 3W
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)	 ITDH3456 3W	 ITDH3656 3W	 ITDH3856 3W*
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)	 ITDH3460 3W	 ITDH3660 3W	 ITDH3860 3W
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)	 ITDH3464 3W	 ITDH3664 3W	 ITDH3864 3W
5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)	 ITDH3468 3W	 ITDH3668 3W	 ITDH3868 3W
6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822)	 ITDH3472 3W	 ITDH3672 3W	 ITDH3872 3W
6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924)	 ITDH3476 3W	 ITDH3676 3W	 ITDH3876 3W

Details and Elevations not to scale.

When ordering 6 ⁹/₁₆" (167 mm) or 6 ¹³/₁₆" (173 mm) jambs, add ¹/₄" (6 mm) to width and ¹/₈" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

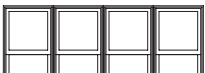
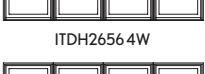
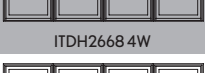
■ = Available in Cottage Style with unequal sash.
Cottage Style Glass size (min) 36 ³/₄" (933) / 24 ³/₄" (629).

See page 96 for specific DP ratings.

DOUBLE HUNG

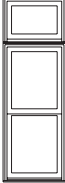
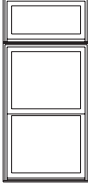
4 Wide Operator Units - 22", 26" Widths

Mas. Opg. (mm)	7-2 1/2 (2197)	8-6 1/2 (2604)
Rgh. Opg. (mm)	7-3 (2210)	8-7 (2616)
Frame Size (mm)	7-2 (2184)	8-6 (2591)

3-0 (914) 3-0 1/4 (921) 2-11 3/4 (908)		
	ITDH2236 4W	ITDH2636 4W
3-4 (1016) 3-4 1/4 (1022) 3-3 3/4 (1010)		
	ITDH2240 4W	ITDH2640 4W
3-8 (1176) 3-8 1/4 (1124) 3-7 3/4 (1111)		
	ITDH2244 4W	ITDH2644 4W
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)		
	ITDH2248 4W	ITDH2648 4W
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)		
	ITDH2252 4W	ITDH2652 4W
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)		
	ITDH2256 4W	ITDH2656 4W
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)		
	ITDH2260 4W	ITDH2660 4W
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)		
	ITDH2264 4W	ITDH2664 4W
5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)		
	ITDH2268 4W	ITDH2668 4W
6-0 (1829) 6-0 1/4 (1835) 5-11 3/4 (1822)		
	ITDH2272 4W	ITDH2672 4W
6-4 (1930) 6-4 1/4 (1937) 6-3 3/4 (1924)		
	ITDH2276 4W	ITDH2676 4W

In-Sash Transoms Mulled Over Double Hungs

Mas. Opg. (mm)	1-10 (559)	2-6 (762)
Rgh. Opg. (mm)	1-10 1/2 (572)	2-6 1/2 (775)
Frame Size (mm)	1-9 1/2 (546)	2-5 1/2 (749)

5-3 3/4 (1619) 5-4 (1626) 5-3 1/2 (1613)		
	ITDHTR2216 / ITDH2248	ITDHTR3016 / ITDH3048

Details and Elevations not to scale.

When ordering 6 9/16" (167 mm) or 6 13/16" (173 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

■ = Available in Cottage Style with unequal sash. Cottage Style Glass size (min) 36 3/4" (933) / 24 3/4" (629).

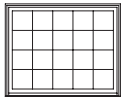
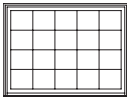
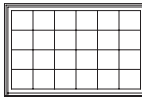
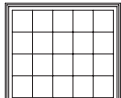
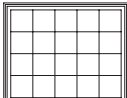
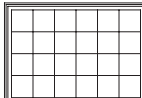
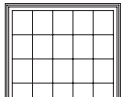
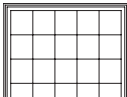
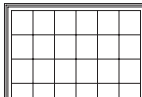
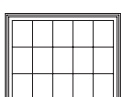
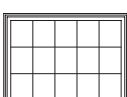
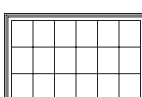
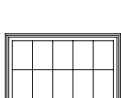
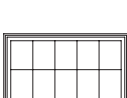
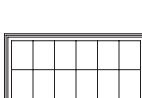
See page 96 for specific DP ratings.

DOUBLE HUNG PICTURE

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

Picture Units

Mas. Opg. (mm)	3-2 (965)	3-6 (1067)	4-2 (1270)	4-6 (1372)	5-2 (1575)
Rgh. Opg. (mm)	3-2 1/2 (978)	3-6 1/2 (1080)	4-2 1/2 (1283)	4-6 1/2 (1384)	5-2 1/2 (1588)
Frame Size (mm)	3-1 1/2 (953)	3-5 1/2 (1054)	4-1 1/2 (1257)	4-5 1/2 (1359)	5-1 1/2 (1562)
Glass Size (mm)	32 3/4" (832)	36 3/4" (933)	44 3/4" (1137)	48 3/4" (1238)	56 3/4" (1441)

3-4 (1016)					
ITDHP3840	ITDHP4240	ITDHP5040	ITDHP5440	ITDHP6240	
3-4 1/4 (1022)					
3-3 3/4 (1010)					
3-4 3/4 (883)					
3-8 (1176)					
ITDHP3844	ITDHP4244	ITDHP5044	ITDHP5444	ITDHP6244	
3-8 1/4 (1124)					
3-7 3/4 (1111)					
38 3/4 (984)					
4-0 (1219)					
ITDHP3848	ITDHP4248	ITDHP5048	ITDHP5448	ITDHP6248	
4-0 1/4 (1226)					
3-11 3/4 (1213)					
42 3/4 (1086)					
4-4 (1321)					
ITDHP3852	ITDHP4252	ITDHP5052	ITDHP5452	ITDHP6252	
4-4 1/4 (1327)					
4-3 3/4 (1314)					
46 3/4 (1187)					
4-8 (1422)					
ITDHP3856	ITDHP4256	ITDHP5056	ITDHP5456	ITDHP6256	
4-8 1/4 (1429)					
4-7 3/4 (1416)					
50 3/4 (1289)					
5-0 (1524)					
ITDHP3860	ITDHP4260	ITDHP5060	ITDHP5460	ITDHP6260	
5-0 1/4 (1530)					
4-11 3/4 (1518)					
54 3/4 (1391)					
5-4 (1626)					
ITDHP3864	ITDHP4264	ITDHP5064	ITDHP5464	ITDHP6264	
5-4 1/4 (1632)					
5-3 3/4 (1619)					
58 3/4 (1492)					

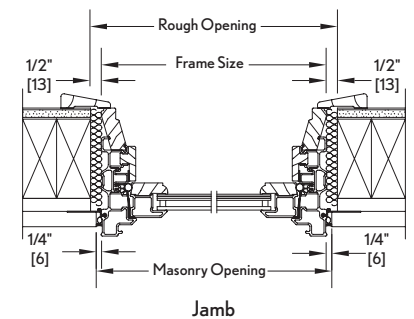
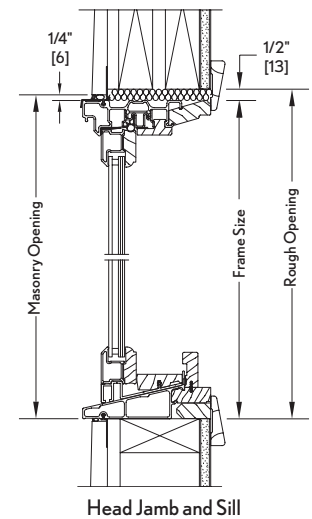
Details and Elevations not to scale.

T = Standard Tempered

Optional picture Grilles, GBGs and SDLs are available in a standard Rectangular cut shown. Also available in Prairie lite cuts shown on page 39.

See page 96 for specific DP ratings.

Construction Details



DOUBLE HUNG PICTURE

Picture Units

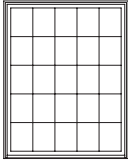
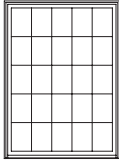
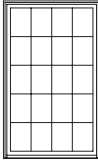
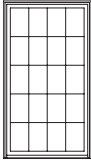
Mas. Opg. (mm)	3-2 (965)	3-6 (1067)	4-2 (1270)	4-6 (1372)
Rgh. Opg. (mm)	3-2 1/2 (978)	3-6 1/2 (1080)	4-2 1/2 (1283)	4-6 1/2 (1384)
Frame Size (mm)	3-1 1/2 (953)	3-5 1/2 (1054)	4-1 1/2 (1257)	4-5 1/2 (1359)
Glass Size (mm)	32 3/4" (832)	36 3/4" (933)	44 3/4" (1137)	48 3/4" (1238)

5-8 (1727)

5-8 1/4 (1734)

5-7 3/4 (1721)

62 3/4" (1594)



ITDHP3868

ITDHP4268

ITDHP5068

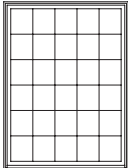
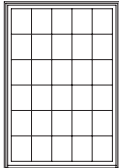
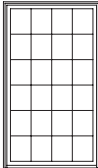
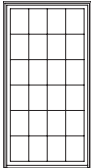
ITDHP5468

6-0 (1829)

6-0 1/4 (1835)

5-11 3/4 (1822)

66 3/4" (1695)



ITDHP3872

ITDHP4272

ITDHP5072

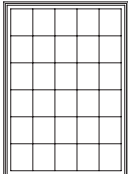
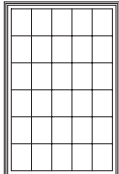
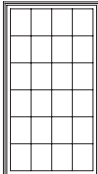
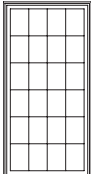
ITDHP5472

6-4 (1930)

6-4 1/4 (1937)

6-3 3/4 (1924)

70 3/4" (1797)



ITDHP3876

ITDHP4276

ITDHP5076

ITDHP5476

DOUBLE HUNG Transoms and Multiple Assemblies

In-Sash Transom and Picture Units

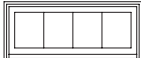
Mas. Opg. (mm)	1-10 (559)	2-2 (660)	2-6 (762)	2-8 (812)	2-10 (864)	3-0 (914)	3-2 (965)	3-6 (1067)
Rgh. Opg. (mm)	1-10 1/2 (572)	2-2 1/2 (673)	2-6 1/2 (775)	2-8 1/2 (825)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-6 1/2 (1080)
Frame Size (mm)	1-9 1/2 (546)	2-11/2 (648)	2-5 1/2 (749)	2-7 1/2 (800)	2-9 1/2 (851)	2-11 1/2 (902)	3-11/2 (953)	3-5 1/2 (1054)
Glass Size (mm)	16 3/4" (425)	20 3/4" (527)	24 3/4" (629)	2-6 3/4 (679)	28 3/4" (730)	30 3/4" (781)	32 3/4" (832)	36 3/4" (933)

1-4 (406)

1-4 1/4 (413)

1-3 3/4 (400)

10 3/4" (273)



ITDHTR2216T

ITDHTR2616T

ITDHTR3016T

ITDHTR3216

ITDHTR3416T

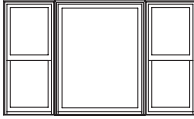
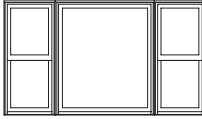
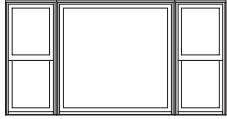
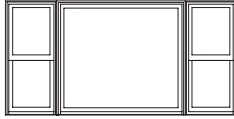
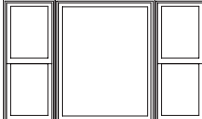
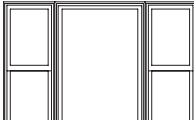
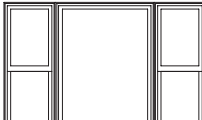
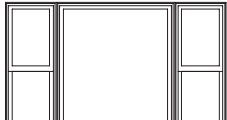
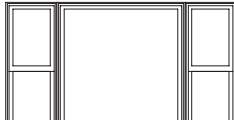
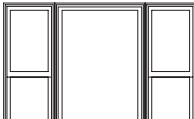
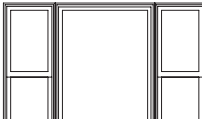
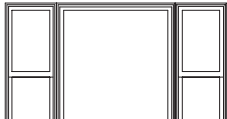
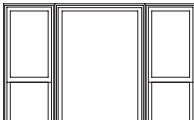
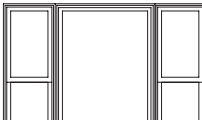
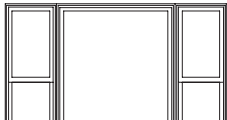
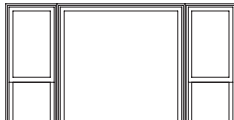
ITDHTR3616T

ITDHTR3816T

ITDHTR4216T

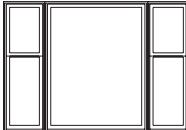
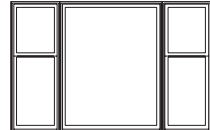
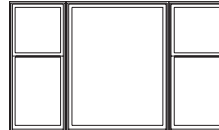
22" Flankers with Picture Center Unit (Assemblies also available with 26 flankers.)

Mas. Opg. (mm)	6-9 (2057)	7-1 (2159)	7-9 (2362)	8-1 (2464)	8-9 (2667)
Rgh. Opg. (mm)	6-9 1/2 (2070)	7-1 1/2 (2172)	7-9 1/2 (2375)	8-1 1/2 (2477)	8-9 1/2 (2680)
Frame Size (mm)	6-8 1/2 (2045)	7-0 1/2 (2146)	7-8 1/2 (2350)	8-0 1/2 (2451)	8-8 1/2 (2654)

4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)					
	ITDH2248 ITDHP3848 ITDH2248	ITDH2248 ITDHP4248 ITDH2248	ITDH2248 ITDHP5048 ITDH2248	ITDH2248 ITDHP5448 ITDH2248	ITDH2248 ITDHP6248 ITDH2248
4-4 (1321) 4-4 1/4 (1327) 4-3 3/4 (1314)					
	ITDH2252 ITDHP3852 ITDH2252	ITDH2252 ITDHP4252 ITDH2252	ITDH2252 ITDHP5052 ITDH2252	ITDH2252 ITDHP5452 ITDH2252	ITDH2252 ITDHP6252 ITDH2252
4-8 (1422) 4-8 1/4 (1429) 4-7 3/4 (1416)					
	ITDH2256 ITDHP3856 ITDH2256	ITDH2256 ITDHP4256 ITDH2256	ITDH2256 ITDHP5056 ITDH2256	ITDH2256 ITDHP5456 ITDH2256	ITDH2256 ITDHP6256 ITDH2256
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)					
	ITDH2260 ITDHP3860 ITDH2260	ITDH2260 ITDHP4260 ITDH2260	ITDH2260 ITDHP5060 ITDH2260	ITDH2260 ITDHP5460 ITDH2260	ITDH2260 ITDHP6260 ITDH2260
5-4 (1626) 5-4 1/4 (1632) 5-3 3/4 (1619)					
	ITDH2264 ITDHP3864 ITDH2264	ITDH2264 ITDHP4264 ITDH2264	ITDH2264 ITDHP5064 ITDH2264	ITDH2264 ITDHP5464 ITDH2264	ITDH2264 ITDHP6264 ITDH2264

Cottage Style Flankers with Picture Center Unit

Mas. Opg. (mm)	8-1 (2464)	8-9 (2667)	9-5 (2870)
Rgh. Opg. (mm)	8-1 1/2 (2477)	8-9 1/2 (2680)	9-5 1/2 (2883)
Frame Size (mm)	8-0 1/2 (2451)	8-8 1/2 (2654)	9-4 1/2 (2858)

5-8 (1727) 5-8 1/4 (1734) 5-7 3/4 (1721)			
	ITDH2268 ITDHP5468 ITDH2268	ITDH2668 ITDHP5468 ITDH2668	ITDH3068 ITDHP5468 ITDH3068

Details and Elevations not to scale.

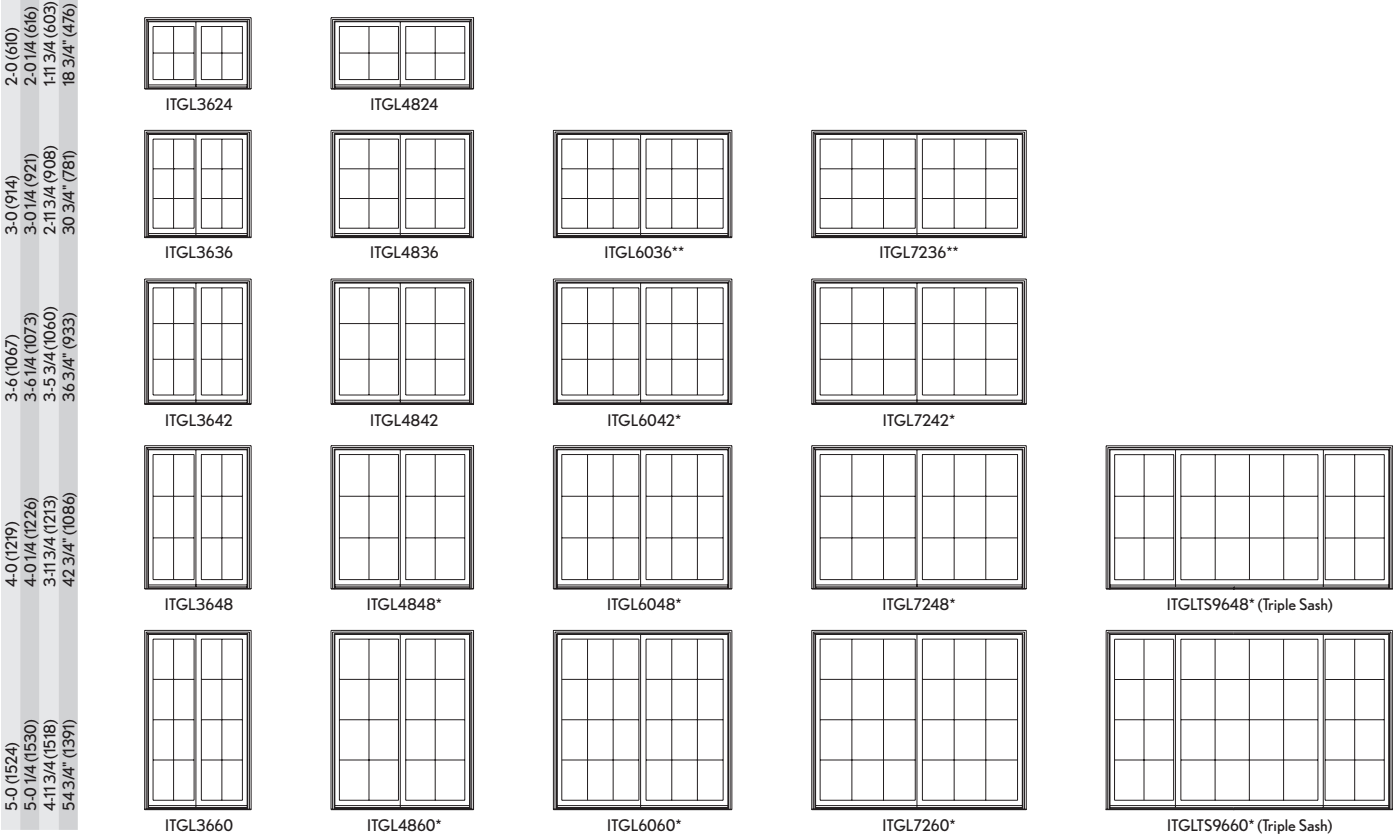
When ordering 6 ⁹/₁₆" (167 mm) or 6 ¹³/₁₆" (173 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

Optional transom Grilles, GBGs and SDLs are available in a standard Rectangular cut. Alternate transom lite cuts available to align with select lite cut options shown on page 39.

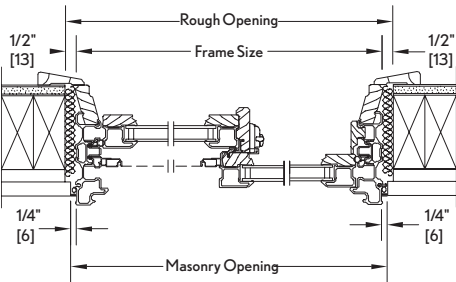
See page 96 for specific DP ratings.

XO Operator Units

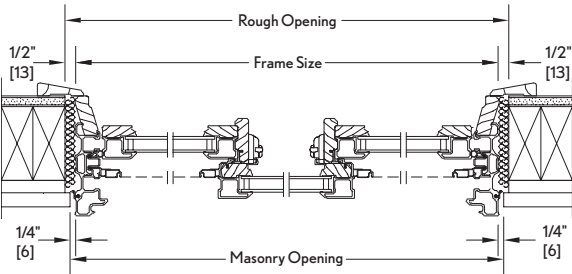
Mas. Opp. (mm)	3-0 (914)	4-0 (1219)	5-0 (1524)	6-0 (1829)	8-0 (2438)
Rgh. Opp. (mm)	3-0 1/2 (927)	4-0 1/2 (1232)	5-0 1/2 (1537)	6-0 1/2 (1842)	8-0 1/2 (2451)
Frame Size (mm)	2-11 1/2 (902)	3-11 1/2 (1207)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
Glass Size (mm)	14 3/4" (375)	20 3/4" (527)	26 3/4" (679)	32 3/4" (832)	46 3/4" (1187) / 20 3/4" (527)



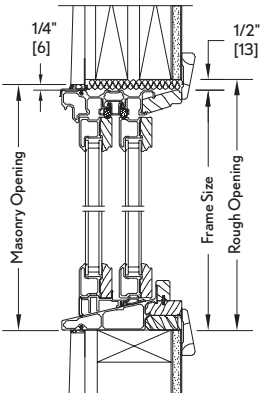
Construction Details



XO Operator Jamb



Triple Sash XOX Operator Jamb



Head Jamb & Sill

Details and Elevations not to scale.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

** These windows meet National Egress Codes for fire evacuation if floor to sill height does not exceed 44" (118 mm). Local codes may differ.

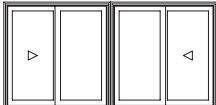
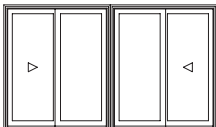
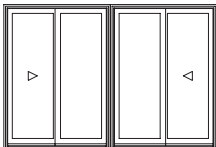
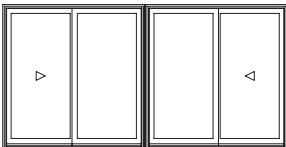
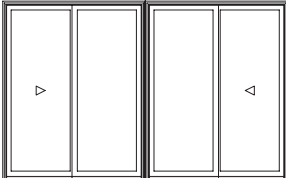
XO operation standard, OX operation optional.

Optional Glider Grilles, GBGs and SDLs are available in a standard Rectangular cut shown. Other available lite cuts shown on page 39.

When ordering 6 7/16" (167 mm) or 6 13/16" (173 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

2 Wide XO-OX Operator Units

Mas. Opg. (mm)	5-11 1/2 (1816)	7-11 1/2 (2426)
Rgh. Opg. (mm)	6-0 (1829)	8-0 (2438)
Frame Size (mm)	5-11 (1803)	7-11 (2413)

2-0 (610) 2-0 1/4 (616) 1-1 3/4 (603)		
	ITGL3624 2W	ITGL4824 2W
3-0 (914) 3-0 1/4 (921) 2-1 3/4 (908)		
	ITGL3636 2W	ITGL4836 2W
3-6 (1067) 3-6 1/4 (1073) 3-5 3/4 (1060)		
	ITGL3642 2W	ITGL4842 2W
4-0 (1219) 4-0 1/4 (1226) 3-11 3/4 (1213)		
	ITGL3648 2W	ITGL4848 2W*
5-0 (1524) 5-0 1/4 (1530) 4-11 3/4 (1518)		
	ITGL3660 2W	ITGL4860 2W*

Details and Elevations not to scale.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

XO operation standard, OX operation optional. Optional Glider Grilles and GBGs are available in a standard cut, as shown.

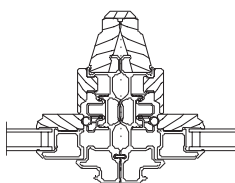
When ordering 6 9/16" (167 mm) or 6 13/16" (173 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

Individual or mulled units with jamb extension: ADD 1/4" (6 mm) to WIDTH and 1/8" (3 mm) to HEIGHT of Frame, Rough, and Masonry Opening sizes.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled up to 2 units wide by 2 units high, MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 60 1/4".

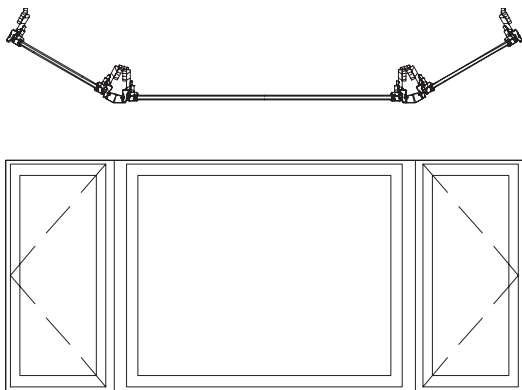
Mullion Detail



Vertical Mullion
XO-OX Operator Unit

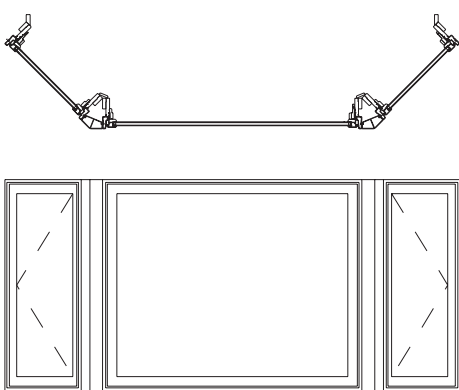
CASEMENT BAYS

30° Bays



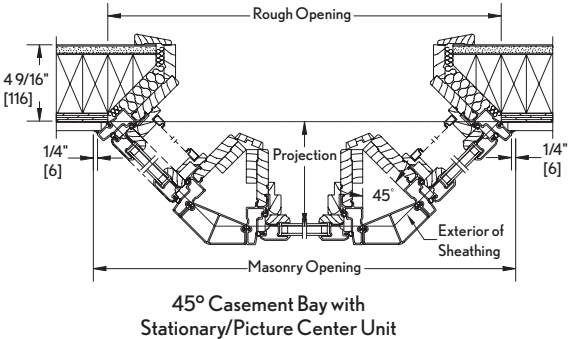
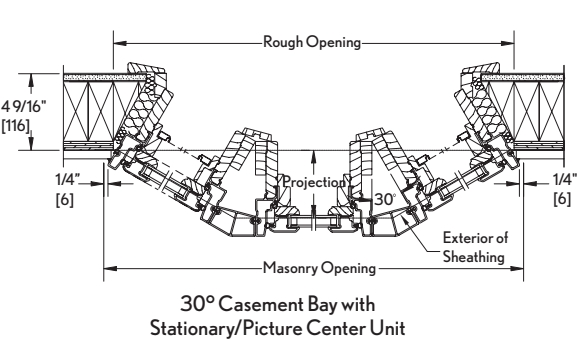
ROUGH OPENING		
CN Width	Width	Projection
17 - 17 - 17	4-0 21/32" (1236 mm)	8 5/8" (219 mm)
17 - 21 - 17	4-4 21/32 (1337)	8 5/8" (219)
17 - 25 - 17	4-8 21/32 (1439)	8 5/8" (219)
17 - 29 - 17	5-0 21/32 (1541)	8 5/8" (219)
17 - 33 - 17	5-4 21/32 (1642)	8 5/8" (219)
17 - 37 - 17	5-8 21/32 (1744)	8 5/8" (219)
17 - 49 - 17	6-8 21/32 (2049)	8 5/8" (219)
21 - 21 - 21	4-11 19/32 (1514)	10 5/8 (270)
21 - 25 - 21	5-3 19/32 (1615)	10 5/8 (270)
21 - 29 - 21	5-7 19/32 (1717)	10 5/8 (270)
21 - 33 - 21	5-11 19/32 (1818)	10 5/8 (270)
21 - 37 - 21	6-3 19/32 (1920)	10 5/8 (270)
21 - 49 - 21	7-3 19/32 (2225)	10 5/8 (270)
21 - 57 - 21	7-11 19/32 (2428)	10 5/8 (270)
21 - 73 - 21	9-3 19/32 (2834)	10 5/8 (270)
25 - 25 - 25	5-10 1/2 (1791)	12 5/8 (321)
25 - 29 - 25	6-2 1/2 (1892)	12 5/8 (321)
25 - 33 - 25	6-6 1/2 (1994)	12 5/8 (321)
25 - 37 - 25	6-10 1/2 (2096)	12 5/8 (321)
25 - 49 - 25	7-10 1/2 (2400)	12 5/8 (321)
25 - 57 - 25	8-6 1/2 (2604)	12 5/8 (321)
29 - 29 - 29	6-9 7/16 (2069)	14 5/8 (371)
29 - 33 - 29	7-1 7/16 (2170)	14 5/8 (371)
29 - 37 - 29	7-5 7/16 (2272)	14 5/8 (371)
29 - 49 - 29	8-5 7/16 (2577)	14 5/8 (371)
29 - 57 - 29	9-1 7/16 (2780)	14 5/8 (371)
33 - 33 - 33	7-8 3/8 (2346)	16 5/8 (422)
33 - 37 - 33	8-0 3/8 (2448)	16 5/8 (422)
33 - 49 - 33	9-0 3/8 (2753)	16 5/8 (422)

45° Bays



ROUGH OPENING		
CN Width	Width	Projection
17 - 17 - 17	3-9 11/32 (1152)	12 5/8 (321)
17 - 21 - 17	4-1 11/32 (1253)	12 5/8 (321)
17 - 25 - 17	4-5 11/32 (1355)	12 5/8 (321)
17 - 29 - 17	4-9 11/32 (1457)	12 5/8 (321)
17 - 33 - 17	5-1 11/32 (1558)	12 5/8 (321)
17 - 37 - 17	5-5 11/32 (1660)	12 5/8 (321)
17 - 49 - 17	6-5 11/32 (1965)	12 5/8 (321)
21 - 21 - 21	4-7 (1397)	15 1/2 (394)
21 - 25 - 21	4-11 (1499)	15 1/2 (394)
21 - 29 - 21	5-3 (1600)	15 1/2 (394)
21 - 33 - 21	5-7 (1702)	15 1/2 (394)
21 - 37 - 21	5-11 (1803)	15 1/2 (394)
21 - 49 - 21	6-11 (2108)	15 1/2 (394)
21 - 57 - 21	7-7 (2311)	15 1/2 (394)
21 - 73 - 21	8-11 (2718)	15 1/2 (394)
25 - 25 - 25	5-4 21/32 (1642)	18 5/16 (465)
25 - 29 - 25	5-8 21/32 (1744)	18 5/16 (465)
25 - 33 - 25	6-0 21/32 (1845)	18 5/16 (465)
25 - 37 - 25	6-4 21/32 (1947)	18 5/16 (465)
25 - 49 - 25	7-4 21/32 (2252)	18 5/16 (465)
25 - 57 - 25	8-0 21/32 (2455)	18 5/16 (465)
25 - 73 - 25	9-4 21/32 (2861)	18 5/16 (465)
29 - 29 - 29	6-2 5/16 (1888)	21 1/8 (537)
29 - 33 - 29	6-6 5/16 (1989)	21 1/8 (537)
29 - 37 - 29	6-10 5/16 (2091)	21 1/8 (537)
29 - 49 - 29	7-10 5/16 (2396)	21 1/8 (537)
29 - 57 - 29	8-6 5/16 (2599)	21 1/8 (537)

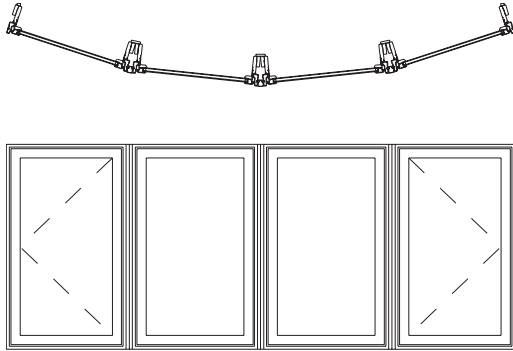
Construction Details



CASEMENT BAYS/BOWS

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

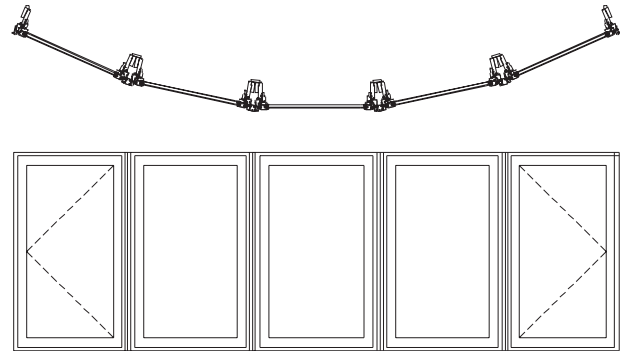
4 Wide Bows



ROUGH OPENING		
CN Width	Width	Projection
17 - 4W	5-515/32 (1663)	6 7/8 (175)
21 - 4W	6-91/32 (2058)	8 1/2 (216)
25 - 4W	8-0 9/16 (2453)	10 3/16 (259)
29 - 4W	9-45/32 (2848)	11 27/32 (301)

BAY/BOW HEIGHT DIMENSIONS	
Unit #	Rough Opening Height
31	2-713/16 (808)
35	2-1113/16 (910)
39	3-313/16 (1011)
43	3-713/16 (1113)
47	3-1113/16 (1214)
55	4-713/16 (1418)
59	4-1113/16 (1519)
63	5-313/16 (1621)
71	5-1113/16 (1824)

5 Wide Bows

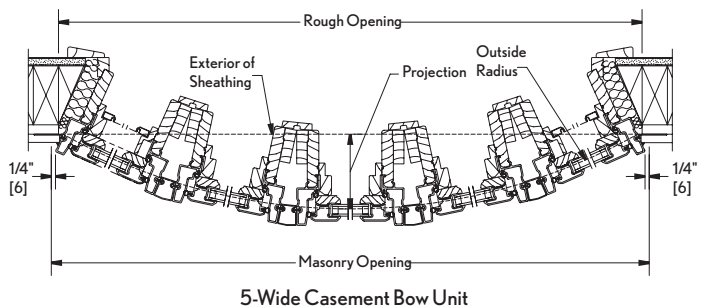
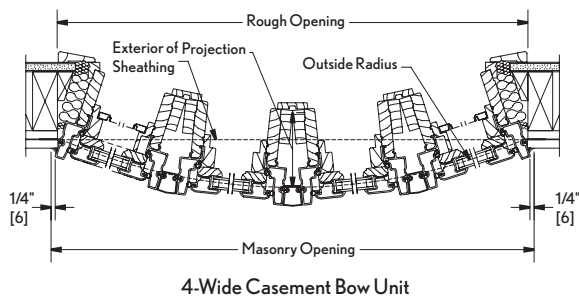


ROUGH OPENING		
CN Width	Width	Projection
17 - 5W	6-8 5/8 (2048)	10 1/4 (260)
21 - 5W	8-3 3/4 (2534)	12 11/16 (322)
25 - 5W	9-10 7/8 (3019)	15 5/32 (385)

Details and Elevations not to scale.

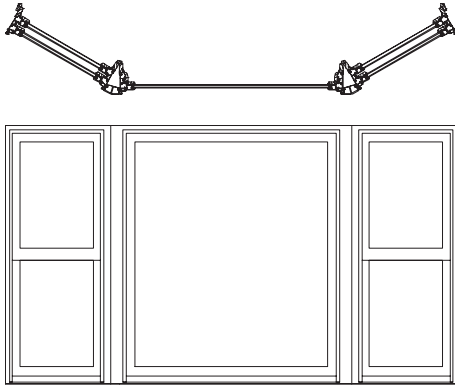
For rough opening height of a Bay or Bow, add 3/16" to Casement rough opening height.

Construction Details



DOUBLE HUNG BAYS

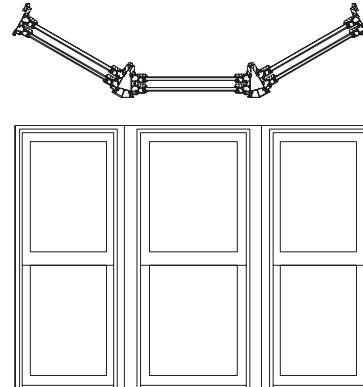
30° Bay Picture Center Unit



ROUGH OPENING		
CN Width	Width	Projection
22 - 42 - 22	6-11 11/16 (2126)	11 3/8 (289)
22 - 50 - 22	7-7 11/16 (2329)	11 3/8 (289)
22 - 54 - 22	7-11 11/16 (2430)	11 3/8 (289)
22 - 62 - 22	8-7 11/16 (2634)	11 3/8 (289)
26 - 42 - 26	7-6 19/32 (2301)	13 3/8 (340)
26 - 50 - 26	8-2 19/32 (2504)	13 3/8 (340)
26 - 54 - 26	8-6 19/32 (2606)	13 3/8 (340)
26 - 62 - 26	9-2 19/32 (2809)	13 3/8 (340)
30 - 42 - 30	8-1 17/32 (2477)	15 3/8 (391)
30 - 50 - 30	8-9 17/32 (2680)	15 3/8 (391)
30 - 54 - 30	9-1 17/32 (2782)	15 3/8 (391)
32 - 38 - 32	8-1 (2464)	16 3/8 (416)
32 - 42 - 32	8-5 (2565)	16 3/8 (416)
32 - 50 - 32	9-1 (2769)	16 3/8 (416)
34 - 42 - 34	8-8 15/32 (2654)	17 3/8 (441)
34 - 50 - 34	9-4 15/32 (2857)	17 3/8 (441)
36 - 42 - 36	8-11 5/16 (2742)	18 3/8 (467)
38 - 42 - 38	9-3 3/8 (2829)	19 3/8 (492)

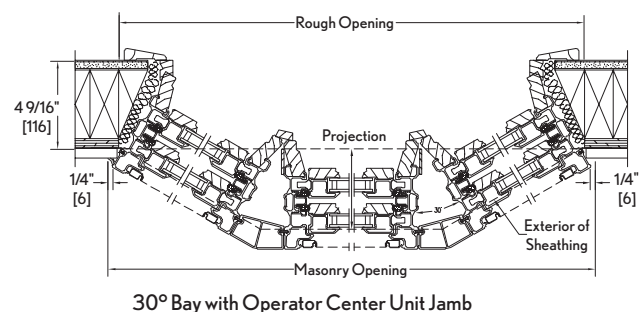
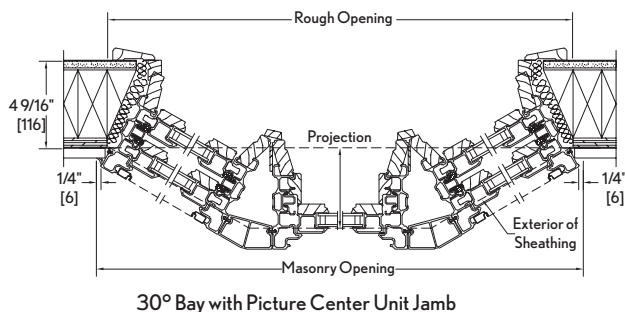
BAY HEIGHT DIMENSIONS		
Double Hung Unit	Rough Opening Height	Picture Unit
36	3-11 1/16 (957)	N/A
40	3-5 11/16 (1059)	N/A
44	3-9 11/16 (1160)	44
48	4-11 1/16 (1262)	48
52	4-5 11/16 (1364)	52
56	4-9 11/16 (1465)	56
60	5-11 1/16 (1567)	60
64	5-5 11/16 (1668)	64
68	5-9 11/16 (1770)	68
72	6-11 1/16 (1872)	N/A
76	6-5 11/16 (1973)	N/A

30° Bay Operator Center Unit



ROUGH OPENING		
CN Width	Width	Projection
22 - 22 - 22	5-3 11/16 (1618)	11 3/8 (289)
22 - 26 - 22	5-7 11/16 (1719)	11 3/8 (289)
22 - 30 - 22	5-11 11/16 (1821)	11 3/8 (289)
22 - 32 - 22	6-1 11/16 (1871)	11 3/8 (289)
22 - 34 - 22	6-3 11/16 (1922)	11 3/8 (289)
22 - 36 - 22	6-5 11/16 (1973)	11 3/8 (289)
22 - 38 - 22	6-7 11/16 (2024)	11 3/8 (289)
22 - 42 - 22	6-11 11/16 (2126)	11 3/8 (289)
26 - 26 - 26	6-2 19/32 (1895)	13 3/8 (340)
26 - 30 - 26	6-6 19/32 (1996)	13 3/8 (340)
26 - 32 - 26	6-8 19/32 (2047)	13 3/8 (340)
26 - 34 - 26	6-10 19/32 (2098)	13 3/8 (340)
26 - 36 - 26	7-0 19/32 (2149)	13 3/8 (340)
26 - 38 - 26	7-2 19/32 (2199)	13 3/8 (340)
26 - 42 - 26	7-6 19/32 (2301)	13 3/8 (340)
30 - 30 - 30	7-1 17/32 (2172)	15 3/8 (391)
30 - 32 - 30	7-3 17/32 (2223)	15 3/8 (391)
30 - 34 - 30	7-5 17/32 (2274)	15 3/8 (391)
30 - 36 - 30	7-7 17/32 (2325)	15 3/8 (391)
30 - 38 - 30	7-9 17/32 (2376)	15 3/8 (391)
30 - 42 - 30	8-1 17/32 (2477)	15 3/8 (391)
32 - 22 - 32	6-9 (2057)	16 3/8 (416)
32 - 26 - 32	7-1 (2159)	16 3/8 (416)
32 - 30 - 32	7-5 (2261)	16 3/8 (416)
32 - 32 - 32	7-7 (2311)	16 3/8 (416)
32 - 34 - 32	7-9 (2362)	16 3/8 (416)
32 - 36 - 32	7-11 (2413)	16 3/8 (416)
32 - 38 - 32	8-1 (2463)	16 3/8 (416)
32 - 42 - 32	8-5 (2565)	16 3/8 (416)
34 - 32 - 34	7-10 15/32 (2400)	17 3/8 (441)
34 - 34 - 34	8-0 15/32 (2450)	17 3/8 (441)
34 - 36 - 34	8-2 15/32 (2501)	17 3/8 (441)
34 - 38 - 34	8-4 15/32 (2552)	17 3/8 (441)
34 - 42 - 34	8-8 15/32 (2654)	17 3/8 (441)
36 - 32 - 36	8-11 5/16 (2487)	18 3/8 (467)
36 - 36 - 36	8-5 15/16 (2589)	18 3/8 (467)
36 - 38 - 36	8-7 15/16 (2640)	18 3/8 (467)
36 - 42 - 36	8-11 5/16 (2742)	18 3/8 (467)
38 - 32 - 38	8-5 (2575)	19 3/8 (492)
38 - 38 - 38	8-11 3/8 (2727)	19 3/8 (492)
38 - 42 - 38	9-3 3/8 (2829)	19 3/8 (492)

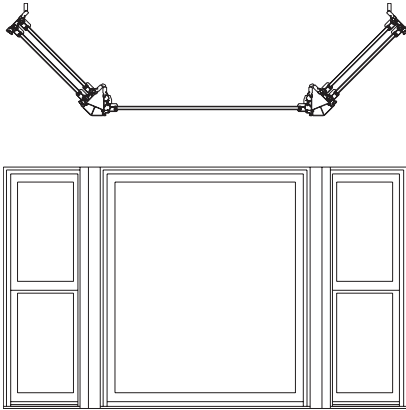
Construction Details



DOUBLE HUNG BAYS

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

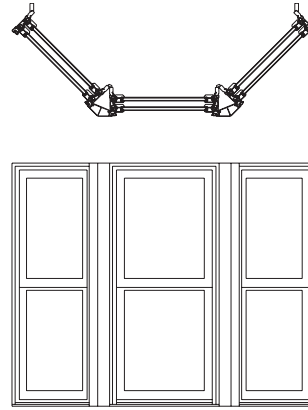
45° Bay Picture Center Unit



ROUGH OPENING		
CN Width	Width	Projection
22 - 42 - 22	6-6 19/32 (1996)	16 9/16 (421)
22 - 50 - 22	7-2 19/32 (2199)	16 9/16 (421)
22 - 54 - 22	7-6 19/32 (2301)	16 9/16 (421)
22 - 62 - 22	8-2 19/32 (2504)	16 9/16 (421)
26 - 42 - 26	7-0 9/32 (2141)	19 3/8 (492)
26 - 50 - 26	7-8 9/32 (2344)	19 3/8 (492)
26 - 54 - 26	8-0 9/32 (2446)	19 3/8 (492)
26 - 62 - 26	8-8 9/32 (2649)	19 3/8 (492)
30 - 42 - 30*	7-5 15/16 (2284)	22 7/32 (564)
30 - 50 - 30*	8-11 5/16 (2488)	22 7/32 (564)
30 - 54 - 30*	8-5 15/16 (2589)	22 7/32 (564)
30 - 62 - 30*	9-11 5/16 (2792)	22 7/32 (564)

BAY HEIGHT DIMENSIONS		
Double Hung Unit	Rough Opening Height	Picture Unit
36	3-11 1/16 (957)	N/A
40	3-5 11/16 (1059)	N/A
44	3-9 11/16 (1160)	44
48	4-11 1/16 (1262)	48
52	4-5 11/16 (1364)	52
56	4-9 11/16 (1465)	56
60	5-11 1/16 (1567)	60
64	5-5 11/16 (1668)	64
68	5-9 11/16 (1770)	68
72	6-11 1/16 (1872)	N/A
76	6-5 11/16 (1973)	N/A

45° Bay Operator Center Unit



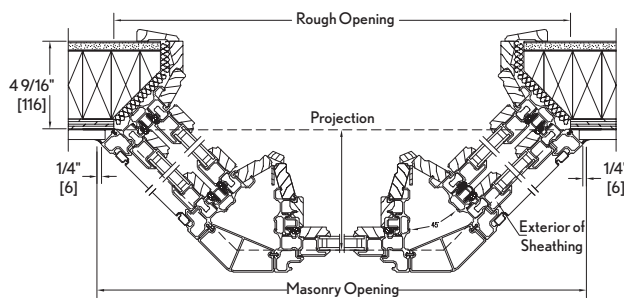
ROUGH OPENING		
CN Width	Width	Projection
22 - 22 - 22	4-10 19/32 (1488)	16 9/16 (421)
22 - 26 - 22	5-2 19/32 (1590)	16 9/16 (421)
22 - 30 - 22	5-6 19/32 (1691)	16 9/16 (421)
22 - 32 - 22	5-8 19/32 (1743)	16 9/16 (421)
22 - 34 - 22	5-10 19/32 (1793)	16 9/16 (421)
22 - 36 - 22	6-0 19/32 (1844)	16 9/16 (421)
22 - 38 - 22	6-2 19/32 (1895)	16 9/16 (421)
22 - 42 - 22	6-6 19/32 (1996)	16 9/16 (421)
26 - 26 - 26	5-8 9/32 (1734)	19 3/8 (492)
26 - 30 - 26	6-0 9/32 (1836)	19 3/8 (492)
26 - 32 - 26	6-2 9/32 (1886)	19 3/8 (492)
26 - 34 - 26	6-4 9/32 (1938)	19 3/8 (492)
26 - 36 - 26	6-6 9/32 (1988)	19 3/8 (492)
26 - 38 - 26	6-8 9/32 (2039)	19 3/8 (492)
26 - 42 - 26	7-0 9/32 (2141)	19 3/8 (492)
30 - 30 - 30*	6-5 15/16 (1980)	22 7/32 (564)
30 - 32 - 30	6-7 15/16 (2030)	22 7/32 (564)
30 - 34 - 30*	6-9 15/16 (2081)	22 7/32 (564)
30 - 36 - 30*	6-11 15/16 (2132)	22 7/32 (564)
30 - 38 - 30*	7-1 15/16 (2183)	22 7/32 (564)
30 - 42 - 30*	7-5 15/16 (2284)	22 7/32 (564)

Details and Elevations not to scale.

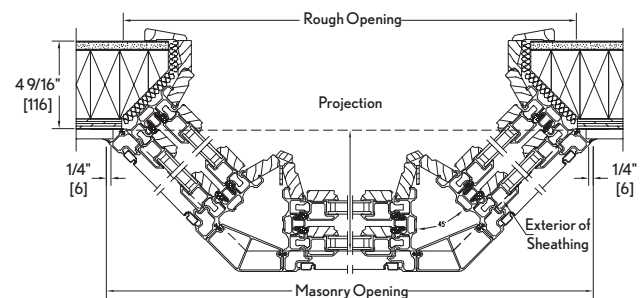
For rough opening height of a Bay, add 1 7/16" to the Double Hung rough opening height.

* Not available with 6 9/16" (167 mm) or 6 13/16" (173 mm) jambs.

Construction Details



45° Bay with Stationary/Picture Center Unit Jamb



45° Bay with Operator Center Unit Jamb

CASEMENT ROUND TOPS

Casement Round Tops

Mas. Opg. (mm) 2-4 1/2 (724) Rgh. Opg. (mm) 2-5 (737) Frame Size (mm) 2-4 (711)	Mas. Opg. (mm) 3-4 1/2 (1029) Rgh. Opg. (mm) 3-5 (1041) Frame Size (mm) 3-4 (1016)	Mas. Opg. (mm) 4-0 1/2 (1232) Rgh. Opg. (mm) 4-1 (1245) Frame Size (mm) 4-0 (1219)	Mas. Opg. (mm) 2-4 1/2 (724) Rgh. Opg. (mm) 2-5 (737) Frame Size (mm) 2-4 (711)
1-2 1/4 (362) 1-2 1/2 (368) 1-2 (356)	1-8 1/4 (514) 1-8 1/2 (521) 1-8 (508)	2-0 1/4 (616) 2-0 1/2 (622) 2-0 (610)	2-4 1/4 (718) 2-4 1/2 (724) 2-4 (711)
IRT29-1W CA	IRT21-2W CA	IRT25-2W CA	IQCIR29-1W CA
Mas. Opg. (mm) 4-8 1/2 (1435) Rgh. Opg. (mm) 4-9 (1448) Frame Size (mm) 4-8 (1422)	Mas. Opg. (mm) 6-0 1/2 (1842) Rgh. Opg. (mm) 6-1 (1854) Frame Size (mm) 6-0 (1829)	Mas. Opg. (mm) 6-0 1/2 (1842) Rgh. Opg. (mm) 6-1 (1854) Frame Size (mm) 6-0 (1829)	
2-4 1/4 (718) 2-4 1/2 (724) 2-4 (711)	3-0 1/4 (921) 3-0 1/2 (927) 3-0 (914)	1-6 1/4 (464) 1-6 1/2 (470) 1-6 (457)	
IRT29-2W CA	IRT25-3W CA	IRTCA7318	

Multiple Assemblies

Mas. Opg. (mm) 6-0 1/2 (1842) Rgh. Opg. (mm) 6-1 (1854) Frame Size (mm) 6-0 (1829)	Mas. Opg. (mm) 6-0 1/2 (1842) Rgh. Opg. (mm) 6-1 (1854) Frame Size (mm) 6-0 (1829)	Mas. Opg. (mm) 6-0 1/2 (1842) Rgh. Opg. (mm) 6-1 (1854) Frame Size (mm) 6-0 (1829)
7-7 3/8 (2321) 7-7 5/8 (2327) 7-7 1/8 (2315)	7-11 3/8 (2423) 7-11 5/8 (2429) 7-11 1/8 (2416)	8-3 3/8 (2524) 8-3 5/8 (2530) 8-3 1/8 (2518)
IRT25-3W / ICA2555-3W	IRT25-3W / ICA2559-3W	IRT25-3W / ICA2563-3W
Mas. Opg. (mm) 2-4 1/2 (724) Rgh. Opg. (mm) 2-5 (737) Frame Size (mm) 2-4 (711)	Mas. Opg. (mm) 2-4 1/2 (724) Rgh. Opg. (mm) 2-5 (737) Frame Size (mm) 2-4 (711)	Mas. Opg. (mm) 2-4 1/2 (724) Rgh. Opg. (mm) 2-5 (737) Frame Size (mm) 2-4 (711)
6-3 3/8 (1915) 6-3 5/8 (1921) 6-3 1/8 (1908)	6-11 3/8 (2118) 6-11 5/8 (2124) 6-11 1/8 (2111)	7-3 3/8 (2219) 7-3 5/8 (2226) 7-3 1/8 (2213)
IQCIR29-1W / ICA2947*	IQCIR29-1W / ICA2955*	IQCIR29-1W / ICA2959*

Lite Patterns

Open Hub	Open Hub	Closed Hub
SDL/GRILLE	GBG	GBG
SDL/GRILLE	GBG	GBG
SDL/GRILLE	GBG	GBG

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mulled up to 3 units wide by 2 units high, MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 91 1/16" OR 85" x 107 7/16". Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

Details and Elevations not to scale.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

Casements available as an operator or stationary.

Optional Round Top SDL, SDL with Spacer Bar, Grilles and GBG are available in a standard cut, as shown. (Round Top divided lites not available in other lite cuts.)

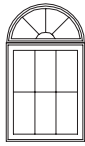
Optional Casement Grilles, GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.

CASEMENT ROUND TOPS

INTEGRITY® FROM MARVIN
WOOD-ULTREX® SERIES

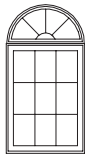
Multiple Assemblies

Mas. Opg. (mm) 2-4 1/2 (724)
Rgh. Opg. (mm) 2-5 (737)
Frame Size (mm) 2-4 (711)



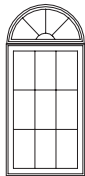
IRT29-1W / ICA2935

4-1 3/8 (1254)
4-1 5/8 (1260)
4-1 1/8 (1248)



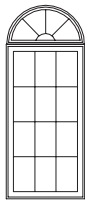
IRT29-1W / ICA2939

4-5 3/8 (1356)
4-5 5/8 (1362)
4-5 1/8 (1349)



IRT29-1W / ICA2947*

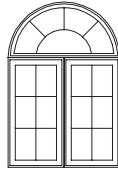
5-1 3/8 (1559)
5-1 5/8 (1565)
5-1 1/8 (1553)



IRT29-1W / ICA2955*

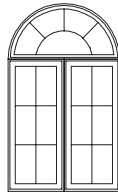
5-9 3/8 (1762)
5-9 5/8 (1768)
5-9 1/8 (1756)

Mas. Opg. (mm) 3-4 1/2 (1029)
Rgh. Opg. (mm) 3-5 (1041)
Frame Size (mm) 3-4 (1016)



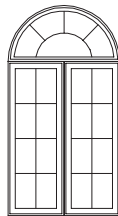
IRT21-2W / ICA2139-2W

4-11 3/8 (1508)
4-11 5/8 (1514)
4-11 1/8 (1502)



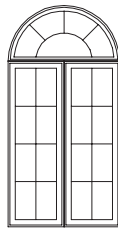
IRT21-2W / ICA2147-2W

5-7 3/8 (1711)
5-7 5/8 (1718)
5-7 1/8 (1705)



IRT21-2W / ICA2155-2W

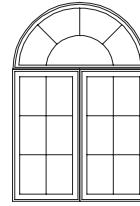
6-3 3/8 (1915)
6-3 5/8 (1921)
6-3 1/8 (1908)



IRT21-2W / ICA2159-2W

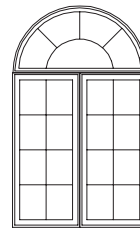
6-7 3/8 (2016)
6-7 5/8 (2022)
6-7 1/8 (2010)

Mas. Opg. (mm) 4-0 1/2 (1232)
Rgh. Opg. (mm) 4-1 (1245)
Frame Size (mm) 4-0 (1219)



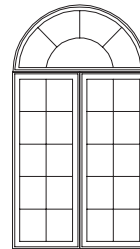
IRT25-2W / ICA2547-2W

5-11 3/8 (1813)
5-11 5/8 (1819)
5-11 1/8 (1807)



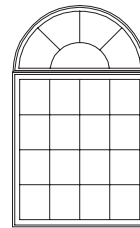
IRT25-2W / ICA2555-2W

6-7 3/8 (2016)
6-7 5/8 (2022)
6-7 1/8 (2010)



IRT25-2W / ICA2563-2W

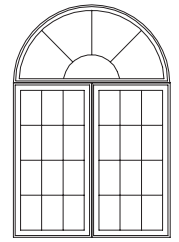
7-3 3/8 (2219)
7-3 5/8 (2226)
7-3 1/8 (2213)



IRT25-2W / ICA4955

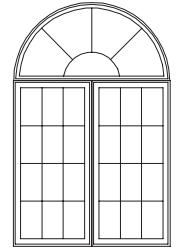
6-7 3/8 (2016)
6-7 5/8 (2022)
6-7 1/8 (2010)

Mas. Opg. (mm) 4-8 1/2 (1435)
Rgh. Opg. (mm) 4-9 (1448)
Frame Size (mm) 4-8 (1422)



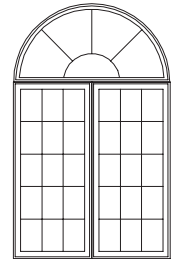
IRT29-2W / ICA2955-2W

6-11 3/8 (2118)
6-11 5/8 (2124)
6-11 1/8 (2111)



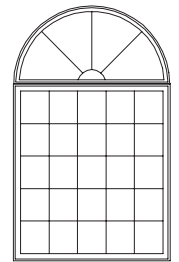
IRT29-2W / ICA2959-2W

7-3 3/8 (2219)
7-3 5/8 (2226)
7-3 1/8 (2213)



IRT29-2W / ICA2963-2W

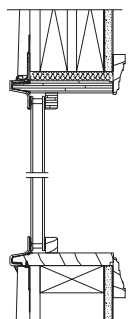
7-7 3/8 (2321)
7-7 5/8 (2327)
7-7 1/8 (2315)



IRT29-2W / ICA2957-2W

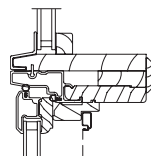
7-7 3/8 (2321)
7-7 5/8 (2327)
7-7 1/8 (2315)

Construction Detail



Casement
Head Jamb & Sill

Horizontal Mullion Detail



Casement Round Top
Over Casement

Details and Elevations not to scale.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

Any Casement unit in these combinations can be operating or stationary. Operating sash are viewed from the exterior.

Optional Round Top SDL, SDL with Spacer Bar, Grilles and GBG are available in a standard cut, as shown on page 66. (Round Top divided lites not available in other lite cuts.)

Optional Casement Grilles, GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.

DOUBLE HUNG ROUND TOPS

Double Hung Round Tops

Mas. Opg. (mm)	2-6 (762)
Rgh. Opg. (mm)	2-6 1/2 (775)
Frame Size (mm)	2-5 1/2 (749)

1-3 (381)
1-3 1/4 (387)
1-2 3/4 (375)



IRT30-1W DH

Mas. Opg. (mm)	2-10 (864)
Rgh. Opg. (mm)	2-10 1/2 (876)
Frame Size (mm)	2-9 1/2 (851)

1-5 (432)
1-5 1/4 (438)
1-4 3/4 (425)



IRT34-1W DH

Mas. Opg. (mm)	3-2 (965)
Rgh. Opg. (mm)	3-2 1/2 (978)
Frame Size (mm)	3-1 1/2 (953)

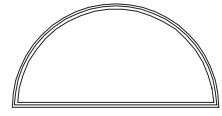
1-7 (483)
1-7 1/4 (489)
1-6 3/4 (476)



IRT38-1W DH

Mas. Opg. (mm)	5-7 1/2 (1715)
Rgh. Opg. (mm)	5-8 (1727)
Frame Size (mm)	5-7 (1702)

2-9 3/4 (857)
2-10 (864)
2-9 1/2 (851)

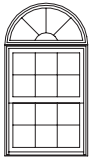


IRT34-2W DH

Multiple Assemblies

Mas. Opg. (mm)	2-6 (762)
Rgh. Opg. (mm)	2-6 1/2 (775)
Frame Size (mm)	2-5 1/2 (749)

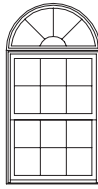
4-6 3/4 (1391)
4-7 (1397)
4-6 1/2 (1384)



IRT30-1W / ITDH3040

Mas. Opg. (mm)	2-10 (864)
Rgh. Opg. (mm)	2-10 1/2 (876)
Frame Size (mm)	2-9 1/2 (851)

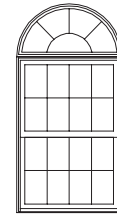
5-4 3/4 (1645)
5-5 (1651)
5-4 1/2 (1638)



IRT34-1W / ITDH3448

Mas. Opg. (mm)	3-2 (965)
Rgh. Opg. (mm)	3-2 1/2 (978)
Frame Size (mm)	3-1 1/2 (953)

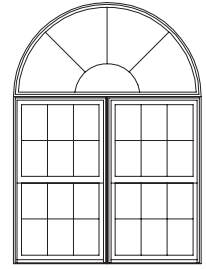
6-2 3/4 (1899)
6-3 (1905)
6-2 1/2 (1892)



IRT38-1W / ITDH3856*

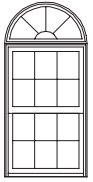
Mas. Opg. (mm)	5-7 1/2 (1715)
Rgh. Opg. (mm)	5-8 (1727)
Frame Size (mm)	5-7 (1702)

7-9 1/2 (2375)
7-9 3/4 (2381)
7-9 1/4 (2369)



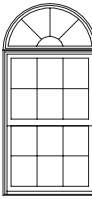
IRT34-2W / ITDH3460-2W

5-2 3/4 (1594)
5-3 (1600)
5-2 1/2 (1588)



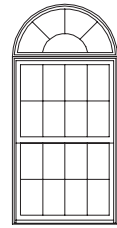
IRT30-1W / ITDH3048

5-8 3/4 (1746)
5-9 (1753)
5-8 1/2 (1740)



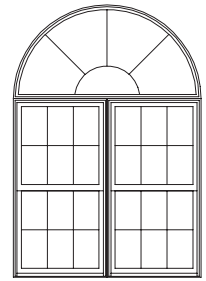
IRT34-1W / ITDH3452

6-6 3/4 (2000)
6-7 (2007)
6-6 1/2 (1994)



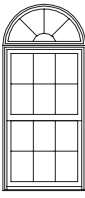
IRT38-1W / ITDH3860*

8-11 1/2 (2477)
8-1 3/4 (2483)
8-11/4 (2470)



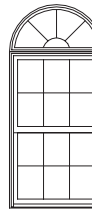
IRT34-2W / ITDH3464-2W*

5-6 3/4 (1695)
5-7 (1702)
5-6 1/2 (1689)



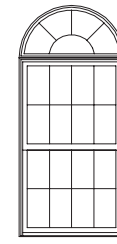
IRT30-1W / ITDH3052

6-0 3/4 (1848)
6-1 (1854)
6-0 1/2 (1842)



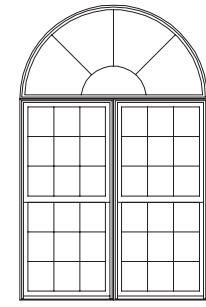
IRT34-1W / ITDH3456

6-10 3/4 (2102)
6-11 (2108)
6-10 1/2 (2096)



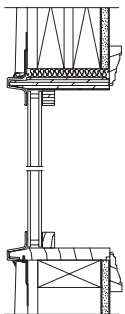
IRT38-1W / ITDH3864*

8-9 1/2 (2680)
8-9 3/4 (2686)
8-9 1/4 (2673)



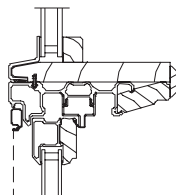
IRT34-2W / ITDH3472-2W*

Construction Detail



Double Hung/Door
Head Jamb & Sill

Horizontal Mullion Detail



Double Hung Round Top
Over Double Hung Operator

Details and Elevations not to scale.

* These windows meet National Egress Codes for fire evacuation. Local codes may differ.

When ordering 6 9/16" (167 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

Optional Round Top SDL, SDL with Spacer Bar, Grilles and GBG are available in a standard cut, as shown on page 66. (Round Top divided lites not available in other lite cuts.)

Optional Casement Grilles, GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.

DOOR ROUND TOPS

INTEGRITY® FROM MARVIN
WOOD-ULTREX® SERIES

Door Round Tops

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

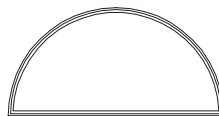
1-6 1/4 (464)
1-6 1/2 (470)
1-6 (457)



IRTD7218

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

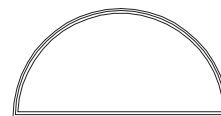
2-11 3/4 (908)
3-0 (914)
2-11 1/2 (902)



IRTD7236

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

2-11 3/4 (908)
3-0 (914)
2-11 1/2 (902)



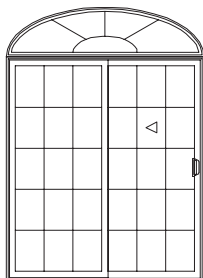
IRT36-2W DH

Multiple Assemblies

Sliding Patio Doors

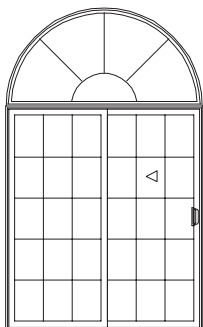
Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

8-4 1/4 (2546)
8-4 1/2 (2553)
8-4 (2540)



IRTD7218 / ISPD6068 OX

9-9 3/4 (2991)
9-10 (2997)
9-9 1/2 (2985)

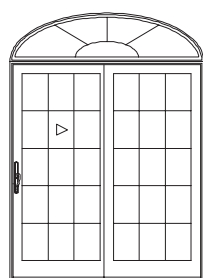


IRTD7236* / ISPD6068 OX

Sliding French Doors

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

8-4 1/4 (2546)
8-4 1/2 (2553)
8-4 (2540)



IRTD7218 / ISFD6068 XO

9-9 3/4 (2991)
9-10 (2997)
9-9 1/2 (2985)

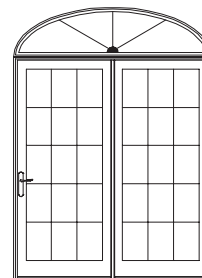


IRTD7236* / ISFD6068 XO

Inswing French Doors

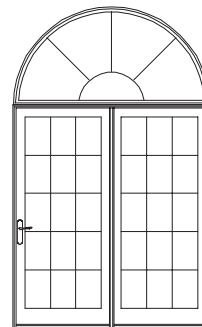
Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

8-4 1/4 (2546)
8-4 1/2 (2553)
8-4 (2540)



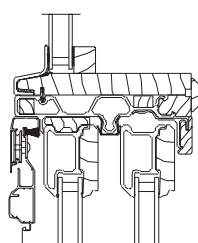
IRTD7218 / IIFD6068 XO

9-9 3/4 (2991)
9-10 (2997)
9-9 1/2 (2985)

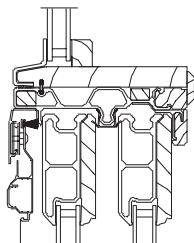


IRTD7236* / IIFD6068 XO

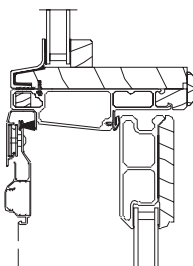
Horizontal Mullion Details



Round Top Over
Sliding Patio Door



Round Top Over
Sliding French Door



Round Top Over
Inswing French Door

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied up to 3 units wide by 2 units high, MAXIMUM ROUGH OPENING not to exceed 113 1/2" x 91 1/16" OR 85" x 107 9/16". Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

Details and Elevations not to scale.

* Assembly available field mullied only.

Optional Round Top SDL, SDL with Spacer Bar, Grilles and GBG are available in a standard cut, as shown on page 66. (Round Top divided lites not available in other lite cuts.)

Optional Casement Grilles, GBGs and SDLs are available in several lite cut variations, standard Rectangular cut shown.

IRTD7236 and IRTDR7218 can be mullied above a CN 36 width 2W Integrity Double Hung. Grilles may not line up in multiple assemblies. For more information, please contact your Integrity representative.

MARVIN ROUND TOPS

Casement Round Tops

Quarter Circle, True Half

Mas. Opg. (mm)	2-0 1/2 (622)
Rgh. Opg. (mm)	2-1 (635)
Frame Size (mm)	2-0 (610)



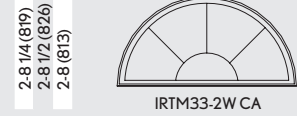
Mas. Opg. (mm)	2-8 1/2 (826)
Rgh. Opg. (mm)	2-9 (838)
Frame Size (mm)	2-8 (813)



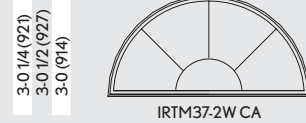
Mas. Opg. (mm)	3-0 1/2 (927)
Rgh. Opg. (mm)	3-1 (940)
Frame Size (mm)	3-0 (914)



Mas. Opg. (mm)	5-4 1/2 (1638)
Rgh. Opg. (mm)	5-5 (1651)
Frame Size (mm)	5-4 (1626)



Mas. Opg. (mm)	6-0 1/2 (1842)
Rgh. Opg. (mm)	6-1 (1854)
Frame Size (mm)	6-0 (1829)



MULTIPLE ASSEMBLIES

Units may be factory mull up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity representative for more information.

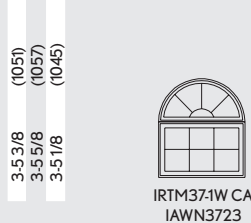
Maximum Rough Opening: 113 1/2" (2883 mm) wide X 91 1/16" (2313 mm) high or 85" (2159 mm) wide X 107 9/16" (2732 mm) high. Quarter Circle shapes require a Casement with a continuous head jamb.

Multiple Assemblies

Mas. Opg. (mm)	2-0 1/2 (622)
Rgh. Opg. (mm)	2-1 (635)
Frame Size (mm)	2-0 (610)



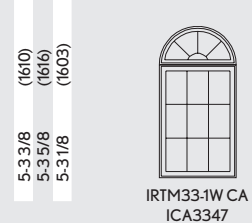
Mas. Opg. (mm)	3-0 1/2 (927)
Rgh. Opg. (mm)	3-1 (940)
Frame Size (mm)	3-0 (914)



Mas. Opg. (mm)	3-0 1/2 (927)
Rgh. Opg. (mm)	3-1 (940)
Frame Size (mm)	3-0 (914)



Mas. Opg. (mm)	2-8 1/2 (826)
Rgh. Opg. (mm)	2-9 (838)
Frame Size (mm)	2-8 (813)



Mas. Opg. (mm)	8-4 1/2 (2553)
Rgh. Opg. (mm)	8-5 (2565)
Frame Size (mm)	8-4 (2540)



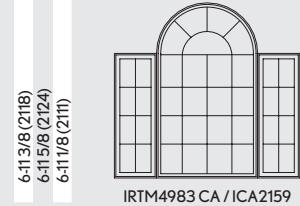
Mas. Opg. (mm)	7-8 1/2 (2350)
Rgh. Opg. (mm)	7-9 (2362)
Frame Size (mm)	7-8 (2337)



Mas. Opg. (mm)	6-4 1/2 (1943)
Rgh. Opg. (mm)	6-5 (1956)
Frame Size (mm)	6-4 (1930)



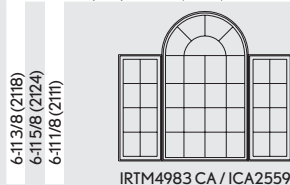
Mas. Opg. (mm)	7-4 1/2 (2248)
Rgh. Opg. (mm)	7-5 (2261)
Frame Size (mm)	7-4 (2235)



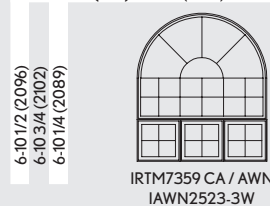
Mas. Opg. (mm)	8-0 1/2 (2451)
Rgh. Opg. (mm)	8-1 (2464)
Frame Size (mm)	8-0 (2438)



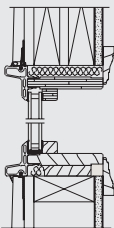
Mas. Opg. (mm)	8-0 1/2 (2451)
Rgh. Opg. (mm)	8-1 (2464)
Frame Size (mm)	8-0 (2438)



Mas. Opg. (mm)	6-0 1/2 (1842)
Rgh. Opg. (mm)	6-1 (1854)
Frame Size (mm)	6-0 (1829)

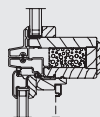


Construction Detail



Casement Round Top
Head Jamb & Sill

Horizontal Mullion Detail



Casement Round Top
Over Casement

Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.

Not to scale. Optional Round Top SDL/Grilles, and SDL with Spacer Bar, are available in standard cut shown above. GBG patterns shown on page 66. (Round Top divided lites not available in other lite cuts.) Optional Casement and Double Hung Grilles, GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

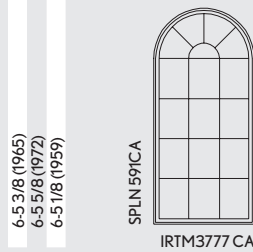
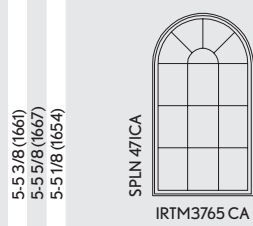


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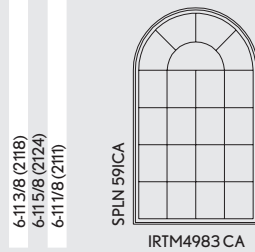
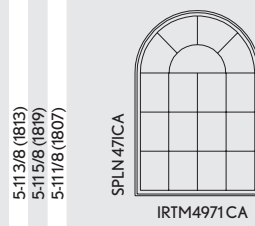
Casement Round Tops

True Half above Springline

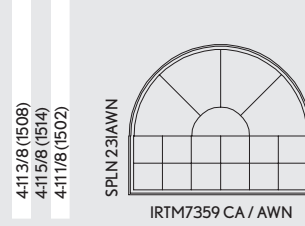
Mas. Opg. (mm)	3-0 1/2 (927)
Rgh. Opg. (mm)	3-1 (940)
Frame Size (mm)	3-0 (914)



Mas. Opg. (mm)	4-0 1/2 (1232)
Rgh. Opg. (mm)	4-1 (1245)
Frame Size (mm)	4-0 (1219)



Mas. Opg. (mm)	6-0 1/2 (1842)
Rgh. Opg. (mm)	6-1 (1854)
Frame Size (mm)	6-0 (1829)



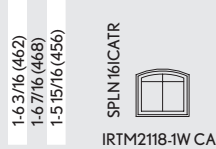
T = Standard Tempered

Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.

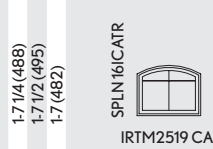
Not to scale. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 66. (Round Top divided lites not available in other lite cuts.) Optional Casement and Double Hung Grilles, GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

Eyebrow above Springline

Mas. Opg. (mm)	1-8 1/2 (521)
Rgh. Opg. (mm)	1-9 (533)
Frame Size (mm)	1-8 (508)



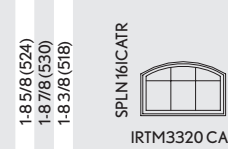
Mas. Opg. (mm)	2-0 1/2 (622)
Rgh. Opg. (mm)	2-1 (635)
Frame Size (mm)	2-0 (610)



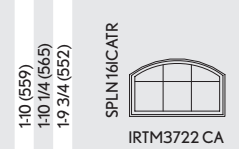
Mas. Opg. (mm)	2-4 1/2 (724)
Rgh. Opg. (mm)	2-5 (737)
Frame Size (mm)	2-4 (711)



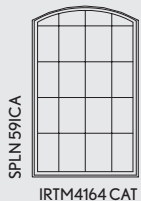
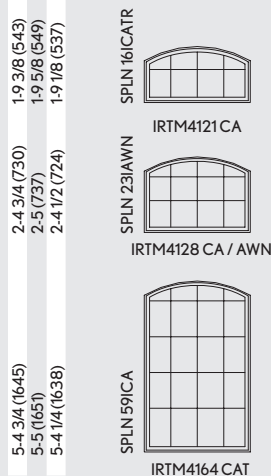
Mas. Opg. (mm)	2-8 1/2 (826)
Rgh. Opg. (mm)	2-9 (838)
Frame Size (mm)	2-8 (813)



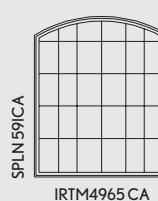
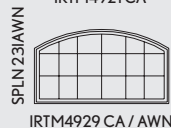
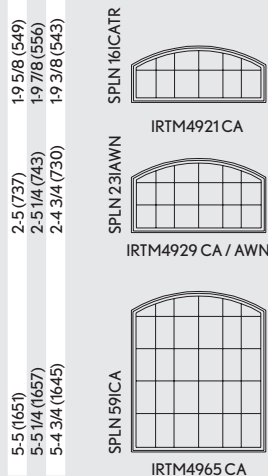
Mas. Opg. (mm)	3-0 1/2 (927)
Rgh. Opg. (mm)	3-1 (940)
Frame Size (mm)	3-0 (914)



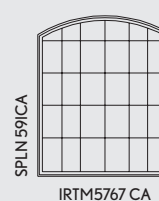
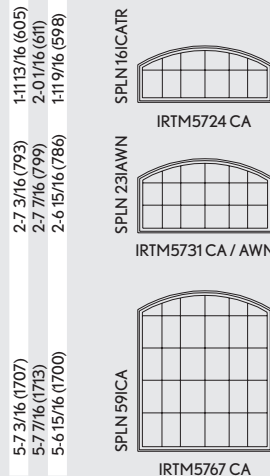
Mas. Opg. (mm)	3-4 1/2 (1029)
Rgh. Opg. (mm)	3-5 (1041)
Frame Size (mm)	3-4 (1016)



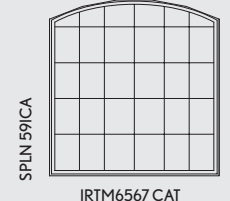
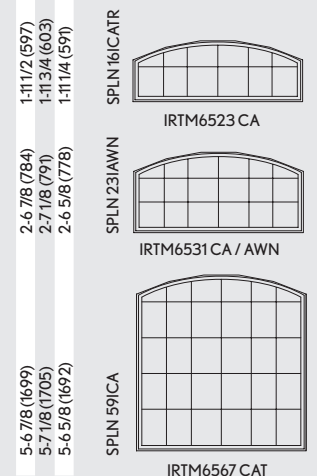
Mas. Opg. (mm)	4-0 1/2 (1232)
Rgh. Opg. (mm)	4-1 (1245)
Frame Size (mm)	4-0 (1219)



Mas. Opg. (mm)	4-8 1/2 (1435)
Rgh. Opg. (mm)	4-9 (1448)
Frame Size (mm)	4-8 (1422)



Mas. Opg. (mm)	5-4 1/2 (1638)
Rgh. Opg. (mm)	5-5 (1651)
Frame Size (mm)	5-4 (1626)



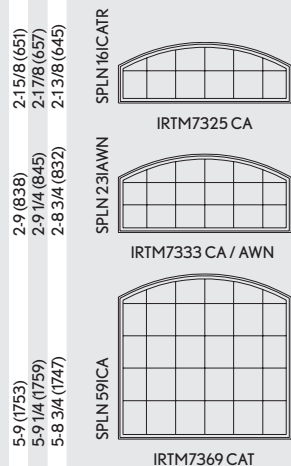
MARVIN ROUND TOPS

Casement Round Tops

Eyebrow above Springline

Multiple Assemblies

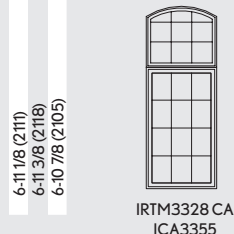
Mas. Opg. (mm)	6-0 1/2 (1842)
Rgh. Opg. (mm)	6-1 (1854)
Frame Size (mm)	6-0 (1829)



Mas. Opg. (mm)	2-4 1/2 (724)
Rgh. Opg. (mm)	2-5 (737)
Frame Size (mm)	2-4 (711)

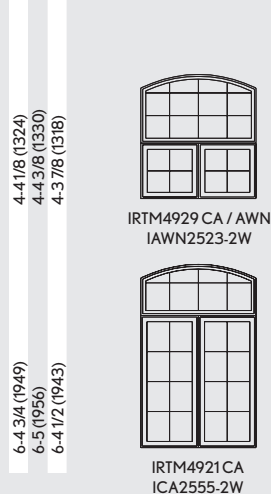


Mas. Opg. (mm)	2-8 1/2 (826)
Rgh. Opg. (mm)	2-9 (838)
Frame Size (mm)	2-8 (813)

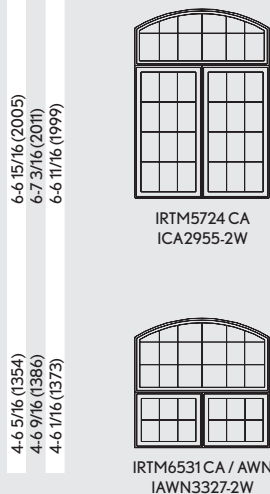


Multiple Assemblies (continued)

Mas. Opg. (mm)	4-0 1/2 (1232)
Rgh. Opg. (mm)	4-1 (1245)
Frame Size (mm)	4-0 (1219)



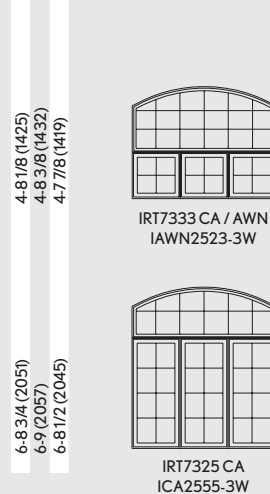
Mas. Opg. (mm)	4-8 1/2 (1435)
Rgh. Opg. (mm)	4-9 (1448)
Frame Size (mm)	4-8 (1422)



Mas. Opg. (mm)	5-4 1/2 (1638)
Rgh. Opg. (mm)	5-5 (1651)
Frame Size (mm)	5-4 (1626)



Mas. Opg. (mm)	6-0 1/2 (1842)
Rgh. Opg. (mm)	6-1 (1854)
Frame Size (mm)	6-0 (1829)



MULTIPLE ASSEMBLIES

Units may be factory mullied up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity representative for more information.

Maximum Rough Opening: 113 1/2" (2883 mm) wide X 91 1/16" (2313 mm) high or 85" (2159 mm) wide X 107 9/16" (2732 mm) high. Quarter Circle shapes require a Casement with a continuous head jamb.

T = Standard Tempered

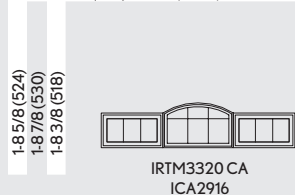
Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.

Not to scale. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 66. (Round Top divided lites not available in other lite cuts.) Optional Casement and Double Hung Grilles, GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

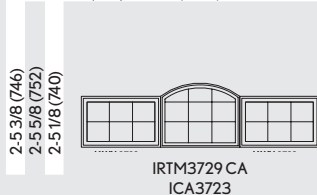
Casement Round Tops

Eyeblink above Springline

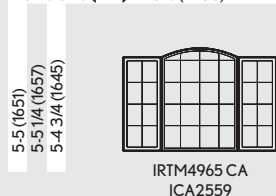
Mas. Opg. (mm)	7-4 1/2 (2248)
Rgh. Opg. (mm)	7-5 (2261)
Frame Size (mm)	7-4 (2235)



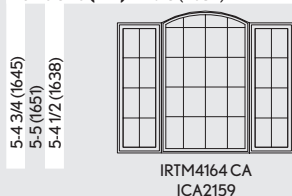
Mas. Opg. (mm)	9-0 1/2 (2756)
Rgh. Opg. (mm)	9-1 (2769)
Frame Size (mm)	9-0 (2743)



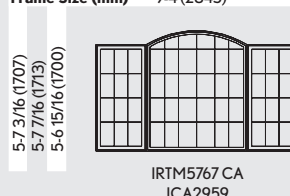
Mas. Opg. (mm)	8-0 1/2 (2451)
Rgh. Opg. (mm)	8-1 (2464)
Frame Size (mm)	8-0 (2438)



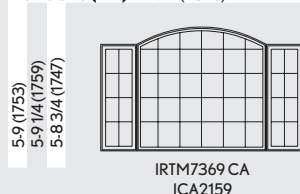
Mas. Opg. (mm)	6-8 1/2 (2045)
Rgh. Opg. (mm)	6-9 (2057)
Frame Size (mm)	6-8 (2032)



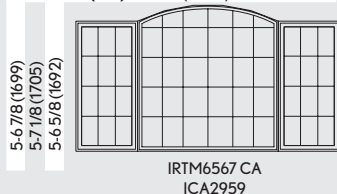
Mas. Opg. (mm)	9-4 1/2 (2858)
Rgh. Opg. (mm)	9-5 (2870)
Frame Size (mm)	9-4 (2845)



Mas. Opg. (mm)	9-4 1/2 (2858)
Rgh. Opg. (mm)	9-5 (2870)
Frame Size (mm)	9-4 (2845)



Mas. Opg. (mm)	10-0 1/2 (3061)
Rgh. Opg. (mm)	10-1 (3073)
Frame Size (mm)	10-0 (3048)



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MULTIPLE ASSEMBLIES

Units may be factory mulled up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity representative for more information.

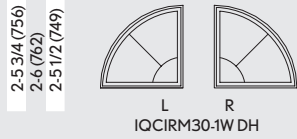
Maximum Rough Opening: 113 1/2" (2883 mm) wide X 91 1/16" (2313 mm) high or 85" (2159 mm) wide X 107 9/16" (2732 mm) high. Quarter Circle shapes require a Casement with a continuous head jamb.

MARVIN ROUND TOPS

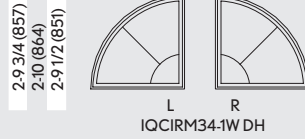
Double Hung Round Tops

Quarter Circle, True Half, Full Circle, Ellipse

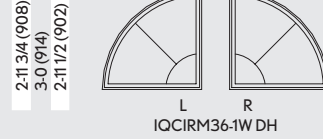
Mas. Opp. (mm)	2-6 (762)
Rgh. Opp. (mm)	2-6 1/2 (775)
Frame Size (mm)	2-5 1/2 (749)



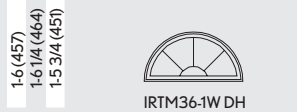
Mas. Opp. (mm)	2-10 (864)
Rgh. Opp. (mm)	2-10 1/2 (876)
Frame Size (mm)	2-9 1/2 (851)



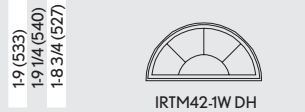
Mas. Opp. (mm)	3-0 (914)
Rgh. Opp. (mm)	3-0 1/2 (927)
Frame Size (mm)	2-11 1/2 (902)



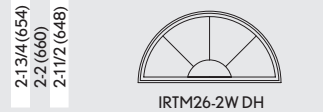
Mas. Opp. (mm)	3-0 (914)
Rgh. Opp. (mm)	3-0 1/2 (927)
Frame Size (mm)	2-11 1/2 (902)



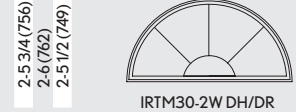
Mas. Opp. (mm)	3-6 (1067)
Rgh. Opp. (mm)	3-6 1/2 (1080)
Frame Size (mm)	3-5 1/2 (1054)



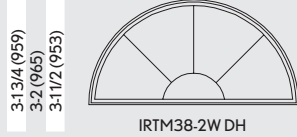
Mas. Opp. (mm)	4-3 1/2 (1308)
Rgh. Opp. (mm)	4-4 (1321)
Frame Size (mm)	4-3 (1295)



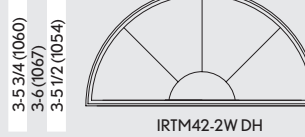
Mas. Opp. (mm)	4-11 1/2 (1511)
Rgh. Opp. (mm)	5-0 (1524)
Frame Size (mm)	4-11 (1499)



Mas. Opp. (mm)	6-3 1/2 (1918)
Rgh. Opp. (mm)	6-4 (1930)
Frame Size (mm)	6-3 (1905)



Mas. Opp. (mm)	6-11 1/2 (2121)
Rgh. Opp. (mm)	7-0 (2134)
Frame Size (mm)	6-11 (2108)



Mas. Opp. (mm)	2-11 1/2 (902)
Rgh. Opp. (mm)	3-0 (914)
Frame Size (mm)	2-11 (889)

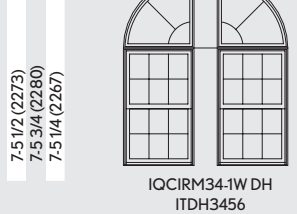


Mas. Opp. (mm)	2-7 1/2 (800)
Rgh. Opp. (mm)	2-8 (813)
Frame Size (mm)	2-7 (787)

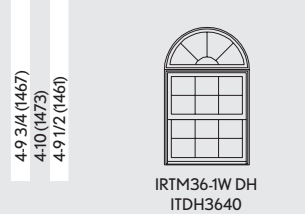


Multiple Assemblies

Mas. Opp. (mm)	2-10 (864)
Rgh. Opp. (mm)	2-10 1/2 (876)
Frame Size (mm)	2-9 1/2 (851)



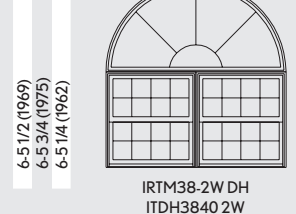
Mas. Opp. (mm)	3-0 (914)
Rgh. Opp. (mm)	3-0 1/2 (927)
Frame Size (mm)	2-11 1/2 (902)



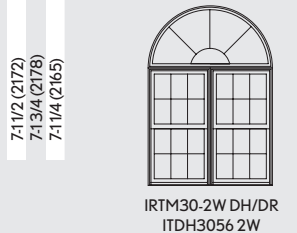
Mas. Opp. (mm)	3-6 (1067)
Rgh. Opp. (mm)	3-6 1/2 (1080)
Frame Size (mm)	3-5 1/2 (1054)



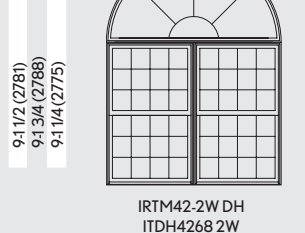
Mas. Opp. (mm)	6-3 1/2 (1918)
Rgh. Opp. (mm)	6-4 (1930)
Frame Size (mm)	6-3 (1905)



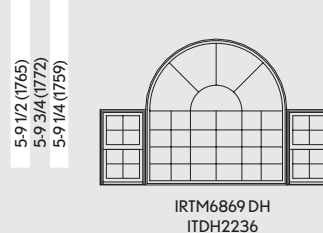
Mas. Opp. (mm)	4-11 1/2 (1511)
Rgh. Opp. (mm)	5-0 (1524)
Frame Size (mm)	4-11 (1499)



Mas. Opp. (mm)	6-11 1/2 (2121)
Rgh. Opp. (mm)	7-0 (2134)
Frame Size (mm)	6-11 (2108)



Mas. Opp. (mm)	9-2 1/2 (2807)
Rgh. Opp. (mm)	9-3 (2819)
Frame Size (mm)	9-2 (2794)



MULTIPLE ASSEMBLIES

Units may be factory mull up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity representative for more information.

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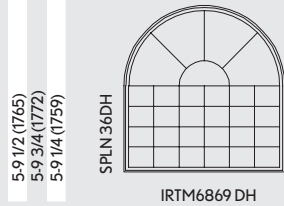
MARVIN ROUND TOPS

MARVIN ROUND TOPS
MADE FOR INTEGRITY®

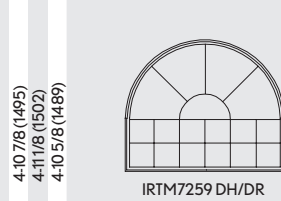
Double Hung Round Tops

True Half above Springline

Mas. Opg. (mm) 5-7 1/2 (1715)
Rgh. Opg. (mm) 5-8 (1727)
Frame Size (mm) 5-7 (1702)



Mas. Opg. (mm) 5-11 1/2 (1816)
Rgh. Opg. (mm) 6-0 (1829)
Frame Size (mm) 5-11 (1803)



Eyebrow above Springline

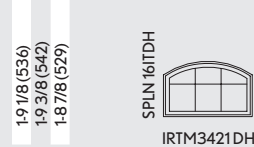
Mas. Opg. (mm) 2-2 (660)
Rgh. Opg. (mm) 2-2 1/2 (673)
Frame Size (mm) 2-1 1/2 (648)



Mas. Opg. (mm) 2-6 (762)
Rgh. Opg. (mm) 2-6 1/2 (775)
Frame Size (mm) 2-5 1/2 (749)



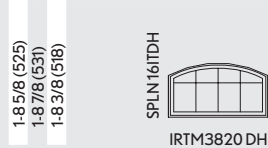
Mas. Opg. (mm) 2-10 (864)
Rgh. Opg. (mm) 2-10 1/2 (876)
Frame Size (mm) 2-9 1/2 (851)



Mas. Opg. (mm) 3-0 (914)
Rgh. Opg. (mm) 3-0 1/2 (927)
Frame Size (mm) 2-11 1/2 (902)



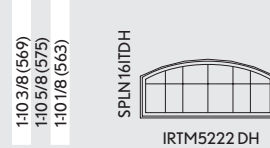
Mas. Opg. (mm) 3-2 (965)
Rgh. Opg. (mm) 3-2 1/2 (978)
Frame Size (mm) 3-1 1/2 (953)



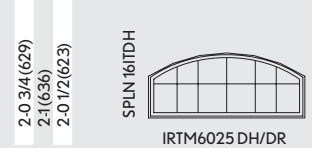
Mas. Opg. (mm) 3-6 (1067)
Rgh. Opg. (mm) 3-6 1/2 (1080)
Frame Size (mm) 3-5 1/2 (1054)



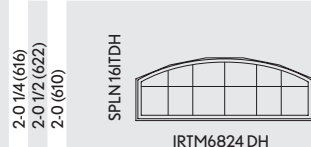
Mas. Opg. (mm) 4-3 1/2 (1308)
Rgh. Opg. (mm) 4-4 (1321)
Frame Size (mm) 4-3 (1295)



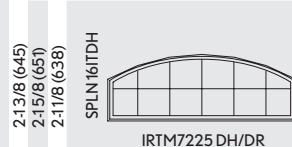
Mas. Opg. (mm) 4-11 1/2 (1511)
Rgh. Opg. (mm) 5-0 (1524)
Frame Size (mm) 4-11 (1499)



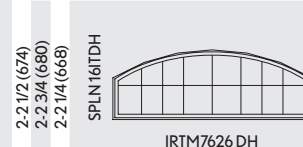
Mas. Opg. (mm) 5-7 1/2 (1715)
Rgh. Opg. (mm) 5-8 (1727)
Frame Size (mm) 5-7 (1702)



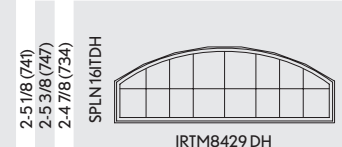
Mas. Opg. (mm) 5-11 1/2 (1816)
Rgh. Opg. (mm) 6-0 (1829)
Frame Size (mm) 5-11 (1803)



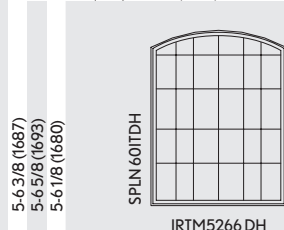
Mas. Opg. (mm) 6-3 1/2 (1918)
Rgh. Opg. (mm) 6-4 (1930)
Frame Size (mm) 6-3 (1905)



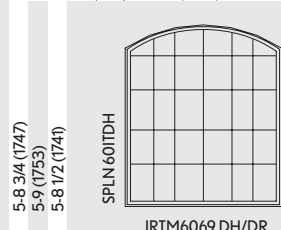
Mas. Opg. (mm) 6-11 1/2 (2121)
Rgh. Opg. (mm) 7-0 (2134)
Frame Size (mm) 6-11 (2108)



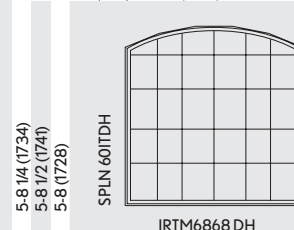
Mas. Opg. (mm) 4-3 1/2 (1308)
Rgh. Opg. (mm) 4-4 (1321)
Frame Size (mm) 4-3 (1295)



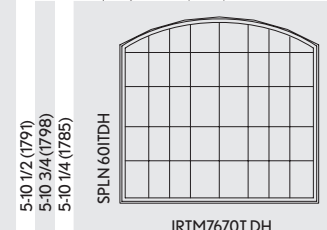
Mas. Opg. (mm) 4-11 1/2 (1511)
Rgh. Opg. (mm) 5-0 (1524)
Frame Size (mm) 4-11 (1499)



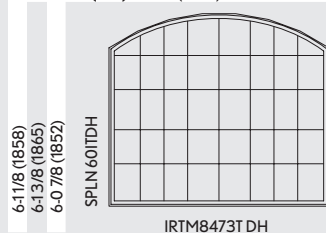
Mas. Opg. (mm) 5-7 1/2 (1715)
Rgh. Opg. (mm) 5-8 (1727)
Frame Size (mm) 5-7 (1702)



Mas. Opg. (mm) 6-3 1/2 (1918)
Rgh. Opg. (mm) 6-4 (1930)
Frame Size (mm) 6-3 (1905)



Mas. Opg. (mm) 6-11 1/2 (2121)
Rgh. Opg. (mm) 7-0 (2134)
Frame Size (mm) 6-11 (2108)



T = Standard Tempered

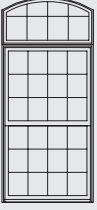
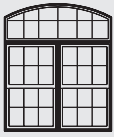
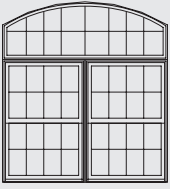
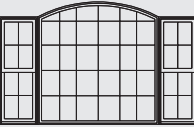
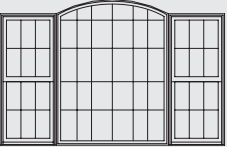
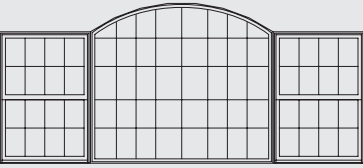
Not to scale. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 66. (Round Top divided lites not available in other lite cuts.) Optional Casement and Double Hung Grilles, GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

MARVIN
Windows and Doors
Built around you.®

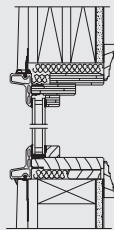
MARVIN ROUND TOPS

Double Hung Round Tops

Eyebrow above Springline Multiple Assemblies

Mas. Opg. (mm) 3-0 (914) Rgh. Opg. (mm) 3-0 1/2 (927) Frame Size (mm) 2-11 1/2 (902)		Mas. Opg. (mm) 3-6 (1067) Rgh. Opg. (mm) 3-6 1/2 (1080) Frame Size (mm) 3-5 1/2 (1054)		Mas. Opg. (mm) 5-7 1/2 (1715) Rgh. Opg. (mm) 5-8 (1727) Frame Size (mm) 5-7 (1702)		Mas. Opg. (mm) 6-3 1/2 (1918) Rgh. Opg. (mm) 6-4 (1930) Frame Size (mm) 6-3 (1905)	
6-9 1/6 (2072) 6-9 13/16 (2078) 6-9 5/16 (2065)	IRTM3622 DH ITDH3660	7-9 9/16 (2376) 7-9 13/16 (2383) 7-9 5/16 (2370)	IRTM4222 DH ITDH4272	6-8 (2032) 6-8 1/4 (2038) 6-7 3/4 (2026)	IRTM6824 DH IDH3456-2W	6-10 (2083) 6-10 1/4 (2089) 6-9 3/4 (2076)	IRTM7626 DH ITDH3856-2W
Mas. Opg. (mm) 8-6 1/2 (2604) Rgh. Opg. (mm) 8-7 (2616) Frame Size (mm) 8-6 (2591)		Mas. Opg. (mm) 9-2 1/2 (2807) Rgh. Opg. (mm) 9-3 (2819) Frame Size (mm) 9-2 (2794)		Mas. Opg. (mm) 13-10 1/2 (4229) Rgh. Opg. (mm) 13-11 (4242) Frame Size (mm) 13-10 (4216)			
5-6 3/8 (1686) 5-6 5/8 (1692) 5-6 1/8 (1680)	IRTM5266 DH ITDH2660	5-8 1/4 (1734) 5-8 1/2 (1740) 5-8 (1727)	IRTM6868 DH ITDH2260	6-11/8 (1857) 6-1 3/8 (1864) 6-0 7/8 (1851)	IRTM8473T DH ITDH4260		
Mas. Opg. (mm) 6-1 (1854) Rgh. Opg. (mm) 6-1 1/2 (1867) Frame Size (mm) 6-0 1/2 (1842)							
1-9 1/8 (537) 1-9 3/8 (543) 1-8 7/8 (530)	IRTM3021 DH ITDHTR2216						

Construction Detail



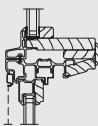
Double Hung/Door Round Top
Head Jamb & Sill

T = Standard Tempered

Contact your sales representative for multiple assembly lite alignment.
Certain assemblies do not allow for exact lite alignment.

Not to scale. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 66. (Round Top divided lites not available in other lite cuts.) Optional Casement and Double Hung Grilles, GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

Horizontal Mullion Detail



Double Hung Round Top
Over Double Hung

MULTIPLE ASSEMBLIES

Units may be factory mulled up to 3 units wide by 2 units high. Field mull kits are available. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity representative for more information.

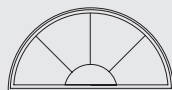
Maximum Rough Opening: 113 1/2" (2883 mm) wide X 91 1/16" (2313 mm) high or 85" (2159 mm) wide X 107 9/16" (2732 mm) high. Quarter Circle shapes require a Casement with a continuous head jamb.

Door Round Tops

Half Round above Springline

Mas. Opg. (mm)	4-11 1/2 (1511)
Rgh. Opg. (mm)	5-0 (1524)
Frame Size (mm)	4-11 (1499)

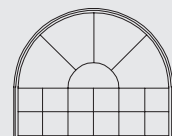
2-5 3/4 (756)
2-6 (762)
2-5 1/2 (749)



IRTM30-2W DH/DR

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

4-10 7/8 (1495)
4-11 1/8 (1502)
4-10 5/8 (1489)



IRTM7259 DH/DR

Eyebrow above Springline

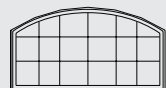
Mas. Opg. (mm)	4-11 1/2 (1511)
Rgh. Opg. (mm)	5-0 (1524)
Frame Size (mm)	4-11 (1499)

2-0 3/4 (629)
2-1 (636)
2-0 1/2 (623)



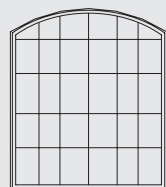
IRTM6025 DH/DR

2-8 1/8 (817)
2-8 3/8 (823)
2-7 7/8 (810)



IRTM6032 DH/DR

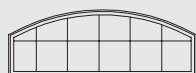
5-8 3/4 (1747)
5-9 (1753)
5-8 1/2 (1740)



IRTM6069 DH/DR

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

2-1 3/8 (645)
2-1 5/8 (651)
2-1 1/8 (638)



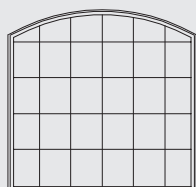
IRTM7225 DH/DR

2-8 (832)
2-9 (838)
2-8 1/2 (826)



IRTM7233 DH/DR

5-8 3/4 (1746)
5-9 (1753)
5-8 1/2 (1740)



IRTM7269 DH/DR

T = Standard Tempered

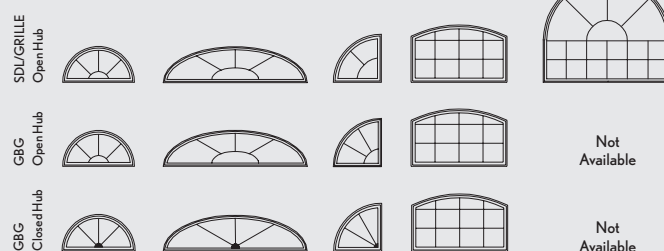
Contact your sales representative for multiple assembly lite alignment. Certain assemblies do not allow for exact lite alignment.

Not to scale. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in standard cut shown above. GBG patterns shown on page 66. (Round Top divided lites not available in other lite cuts.) Optional Casement and Double Hung Grilles, GBGs and SDLs are available in several lite variations, standard Rectangular cut shown.

Note: IRTM7225, IRTM7233, and IRTM7269 can be muller above a CN 36 width 2W Integrity Double Hung. Grilles and/or GBGs may not line up in multiple assemblies. For more information, please contact your Integrity representative.

IRTM7259 can be muller above a CN 36 width 2W Integrity Double Hung. Grilles may not line up in multiple assemblies. For more information, please contact your Integrity representative.

Lite Patterns



THERMAL PERFORMANCE

Marvin Casement Round Tops for Integrity®

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/Low E II - Air	0.33	3.03	0.37	0.64	N, NC, SC, S
Insulating Glass/Low E II - Argon	0.29	3.45	0.37	0.64	N, NC, SC, S
Insulating Glass/Low E II - Air - GBG	0.33	3.03	0.34	0.57	N, NC, SC, S
Insulating Glass/Low E II - Argon - GBG	0.29	3.45	0.33	0.57	N, NC, SC, S
Insulating Glass/Low E II - Air - SDL	0.33	3.03	0.34	0.57	N, NC, SC, S
Insulating Glass/Low E II - Argon - SDL	0.29	3.45	0.33	0.57	N, NC, SC, S

Marvin Double Hung Round Tops for Integrity®

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/Low E II - Air	0.33	3.03	0.36	0.61	N, NC, SC, S
Insulating Glass/Low E II - Argon	0.29	3.45	0.36	0.61	N, NC, SC, S
Insulating Glass/Low E II - Air - GBG	0.32	3.16	0.32	0.55	N, NC, SC, S
Insulating Glass/Low E II - Argon - GBG	0.32	3.16	0.32	0.55	N, NC, SC, S
Insulating Glass/Low E II - Air - SDL	0.32	3.16	0.32	0.55	N, NC, SC, S
Insulating Glass/Low E II - Argon - SDL	0.29	3.45	0.32	0.55	N, NC, SC, S

Thermal and solar values are subject to update. Values are generated in accordance with NFRC 100-2004 and other applicable NFRC procedures.

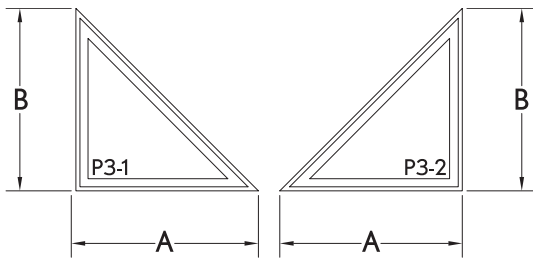
DESIGN PRESSURE

Round Top Windows

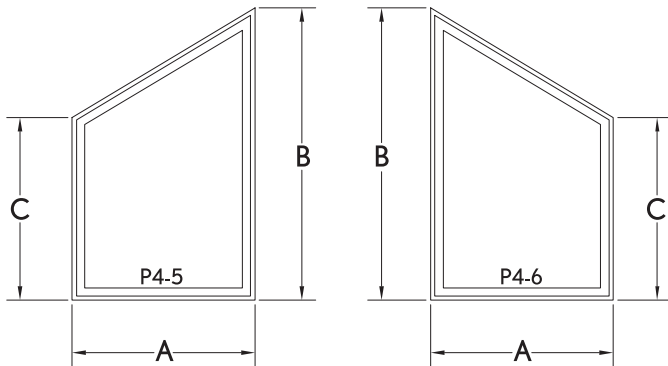
DP50

WARRANTY

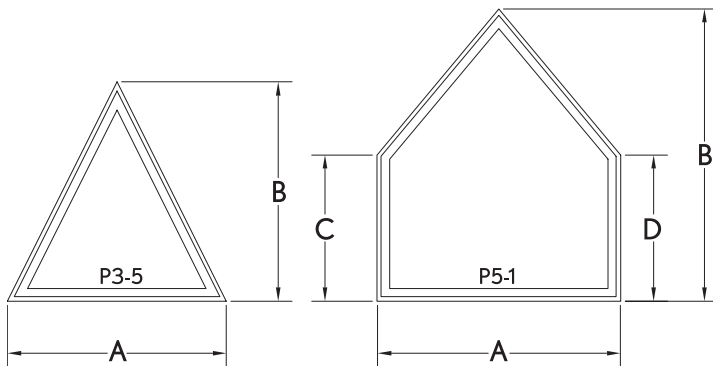
Refer to the Marvin product warranty for complete warranty information on Marvin Round Tops made for Integrity.



90° TRIANGLE

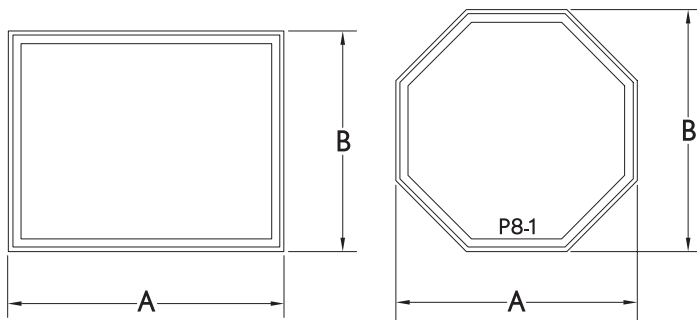


TRAPEZOID



ISOSCELES TRIANGLE

PENTAGON



90° RECTANGLE

OCTAGON

How to Specify

When ordering a Trapezoid, Triangle, or Rectangle window, provide a sketch of the unit as viewed from the exterior, also include key Rough Opening dimensions.

Example: To order a window of a Trapezoid opening provide the measurements of A, B, and C as indicated. For other shapes, give the dimensions shown.

To ensure the proper unit for field mulling applications, specify CA/AWN or DH/DR frame type.

SPECIFICATION NOTES:

Maximum rough opening: 49 sq. ft. (44,593 sq. cm.)

Maximum 97" (2464 mm) rough opening width.

Maximum 96 1/2" (2451mm) rough opening height.

Minimum 13 7/8" (352 mm) rough opening width rectangular; P3-1, P3-2, P3-5, P4-5, P4-6, P5-1 units.

Minimum 13 3/8" (340 mm) rough opening height rectangular; P3-1, P3-2, P3-5, P4-5, P4-6, P5-1 units.

Minimum 19 1/8" (486 mm) rough opening width & height P8-1 units

Minimum 8" (203 mm) rough opening for shortest leg—P3-1, P3-2, P3-5, P4-5, P4-6, P5-1, and P8-1 units

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory mullied:

For ICA/IAWN direct glaze unit: up to 4 units wide by 1 unit high. MAXIMUM ROUGH OPENING: not to exceed 113" x 71 5/8" OR up to 2 units wide by 2 units high. MAXIMUM ROUGH OPENING: not to exceed 73" x 94 3/4".

For ITDH/ITGL direct glaze unit: up to 4 units wide by 1 unit high. MAXIMUM ROUGH OPENING: not to exceed 113 1/2" x 76 1/4" OR up to 2 units wide by 2 units high. MAXIMUM ROUGH OPENING: not to exceed 84" x 92".

For ISPD/ISFD direct glaze unit: up to 1 unit wide by 2 units high. MAXIMUM ROUGH OPENING: not to exceed 72" x 100 1/2".

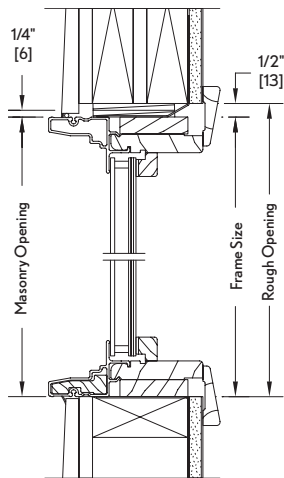
For IIFD direct glaze unit: up to 3 unit wide by 1 units high. MAXIMUM ROUGH OPENING: not to exceed 109 15/16" x 96" OR up to 2 units wide by 2 units high. MAXIMUM ROUGH OPENING: not to exceed 73 5/8" x 102 1/2".

NOTE: Rectangular field assemblies with jamb extension: ADD 1/4" (6 mm) to WIDTH, and 1/8" (3 mm) to HEIGHT of Frame, Rough, and Masonry Opening sizes with exception of assemblies including Casement or Awning.

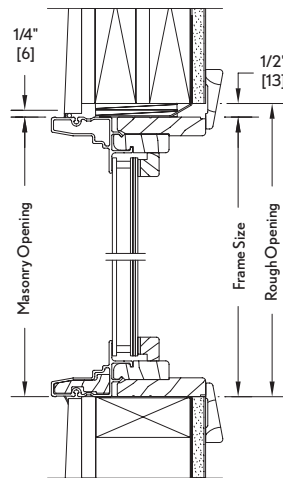
Field mulling window assemblies beyond the above limitations is not recommended.

Field mulling door assemblies beyond 110" x 112" is not recommended.

Construction Details

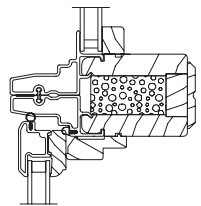


Casement Polygon
Head Jamb and Sill

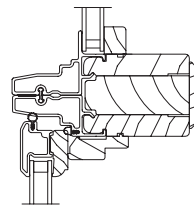


Double Hung/Door Polygon
Head Jamb and Sill

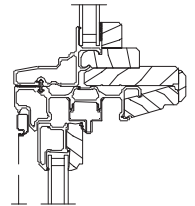
Mullion Details



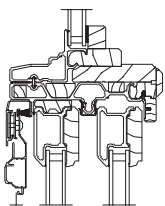
Direct Glaze
Polygon/Transom
Over Casement/Awning



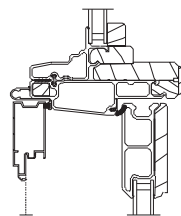
Direct Glaze
Polygon/Transom
Over Casement/Awning
with Structural Mull
Reinforcement Block*



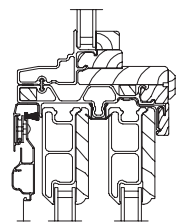
Direct Glaze
Polygon/Transom
Over Double Hung



Direct Glaze
Polygon/Transom
Over Sliding Patio Door



Direct Glaze
Polygon/Transom
Over Inswing French Door



Direct Glaze
Polygon/Transom
Over Sliding French Door

Details not to scale.

Note: Drip cap supplied on direct glaze rectangles only.

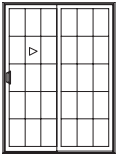
* To be used on 2 wide by 2 high assemblies.

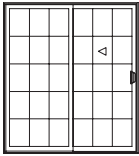
SLIDING PATIO DOOR

2 Panel Sliding Patio Doors

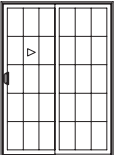
Mas. Opg. (mm)	4-11 1/2 (1511)	5-11 1/2 (1816)
Rgh. Opg. (mm)	5-0 (1524)	6-0 (1829)
Frame Size (mm)	4-11 (1499)	5-11 (1803)
Glass Size (mm)	26 1/4" (667)	32 1/4" (819)

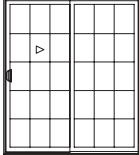
6-7 3/4" (2026)
6-8" (2032)
6-8 1/2" (2019)
73 3/4" (1873)


ISPD5065 XO


ISPD6065 XO

6-10 1/4" (2089)
6-10 1/2" (2096)
6-10 (2083)
76 1/4" (1937)

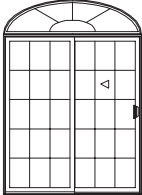

ISPD5068 XO


ISPD6068 XO

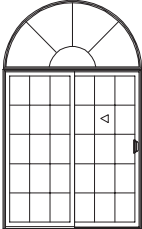
Round Top Over Sliding French Door

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

8-4 1/4" (2546)
8-4 1/2" (2553)
8-4" (2540)


IRTDR7218 / ISPD6068 OX

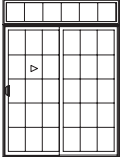
9-9 3/4" (2991)
9-10 (2997)
9-9 1/2" (2985)


IRTDR7236* / ISPD6068 OX

Direct Glaze Transom
Over Sliding Patio Door

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)

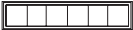
8-2 (2489)
8-2 1/4" (2496)
8-1 3/4" (2483)


ISPDG7216 / ISPD6068 XO

Sliding Patio Door Direct Glaze Transom

Mas. Opg. (mm)	5-11 1/2 (1816)	8-11 (2718)
Rgh. Opg. (mm)	6-0 (1829)	8-11 1/2 (2730)
Frame Size (mm)	5-11 (1803)	8-10 1/2 (2705)
Glass Size (mm)	68 3/16" (1732)	103 11/16" (2634)

1-4 (406)
1-4 1/4 (413)
1-3 3/4 (400)
12 15/16" (329)

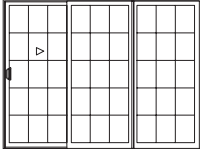

ISPDG7216

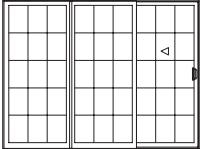

ISPDG10716

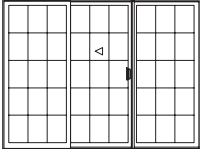
3 Panel Sliding Patio Doors

Mas. Opg. (mm)	8-11 (2718)	8-11 (2718)	8-11 (2718)
Rgh. Opg. (mm)	8-11 1/2 (2731)	8-11 1/2 (2731)	8-11 1/2 (2731)
Frame Size (mm)	8-10 1/2 (2705)	8-10 1/2 (2705)	8-10 1/2 (2705)
Glass Size (mm)	32 1/4" (819)	32 1/4" (819)	32 1/4" (819)

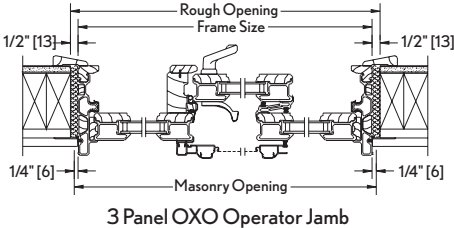
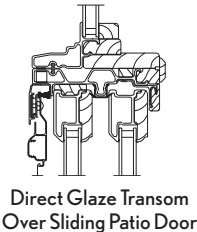
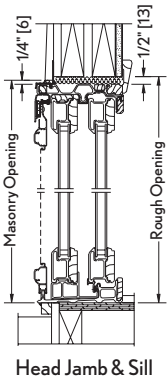
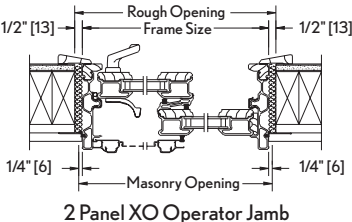
6-10 1/4" (2089)
6-10 1/2" (2096)
6-10 (2083)
76 1/4" (1937)


ISPD9068 XOO


ISPD9068 OOX


ISPD9068 OXO

Construction Details



Details and Elevations not to scale.

Optional Sliding Door Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut shown. Other available lite cuts shown on page 39.

XO operation shown, OX operation optional. When ordering 6 9/16" (167 mm) or 6 13/16" (173 mm) jambs, add 1/4" (6 mm) to width and 1/8" (3 mm) to height for Rough Opening, Frame Size and Masonry Opening.

Optional Direct Glaze transom Grilles, GBGs and SDLs are available in a standard Rectangular cut, as shown. Alternate transom lite cuts available to align with select lite cut options shown on page 39. Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 66. (Round Top divided lites not available in other lite cuts.)

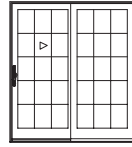
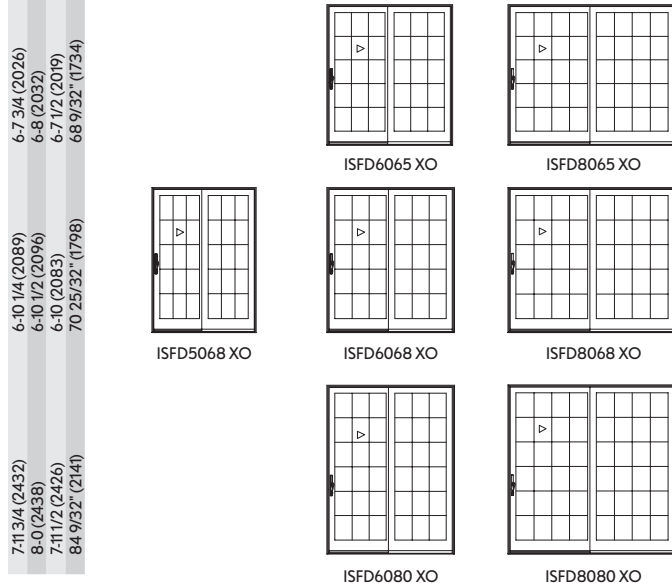
* This product is only available field mulled.

SLIDING FRENCH DOOR

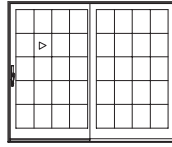
INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

2 Panel Sliding French Doors

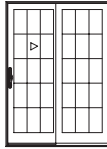
Mas. Opg. (mm)	4-11 1/2 (1511)	5-11 1/2 (1816)	7-11 1/2 (2426)
Rgh. Opg. (mm)	5-0 (1524)	6-0 (1829)	8-0 (2438)
Frame Size (mm)	4-11 (1499)	5-11 (1803)	7-11 (2413)
Glass Size (mm)	23 9/16" (598)	29 9/16" (751)	41 9/16" (1056)



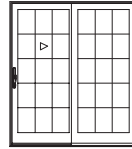
ISFD6065 XO



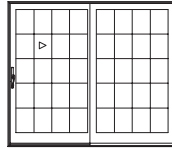
ISFD8065 XO



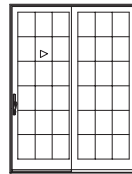
ISFD5068 XO



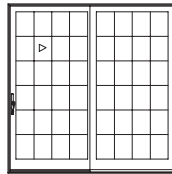
ISFD6068 XO



ISFD8068 XO



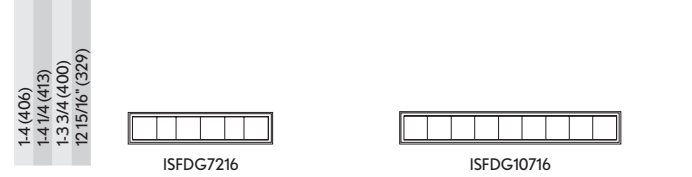
ISFD6080 XO



ISFD8080 XO

Sliding French Door Direct Glaze Transom

Mas. Opg. (mm)	5-11 1/2 (1816)	8-11 (2718)
Rgh. Opg. (mm)	6-0 (1829)	8-11 1/2 (2730)
Frame Size (mm)	5-11 (1803)	8-10 1/2 (2705)
Glass Size (mm)	68 3-16" (1732)	103 11/16" (2634)



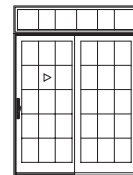
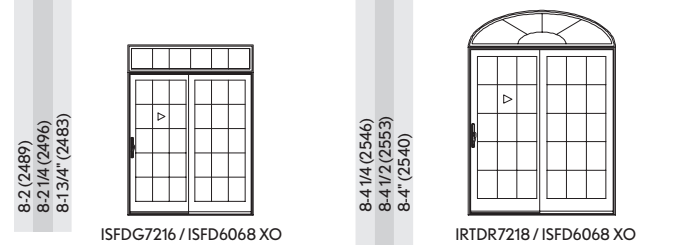
ISFDG7216



ISFDG10716

Direct Glaze Transom Over Sliding French Door

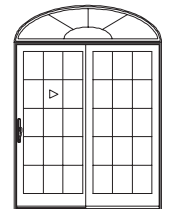
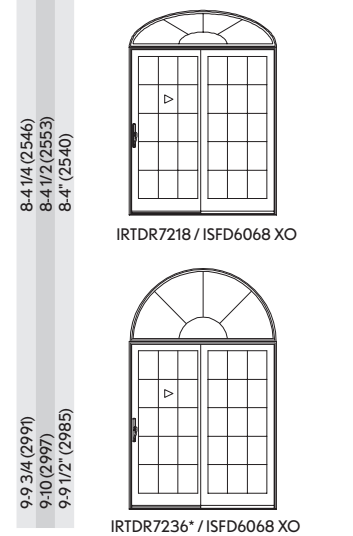
Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)



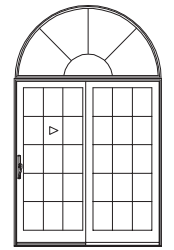
ISFDG7216 / ISFD6068 XO

Round Top Over Sliding French Door

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)



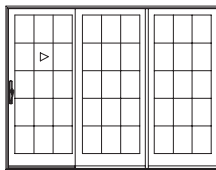
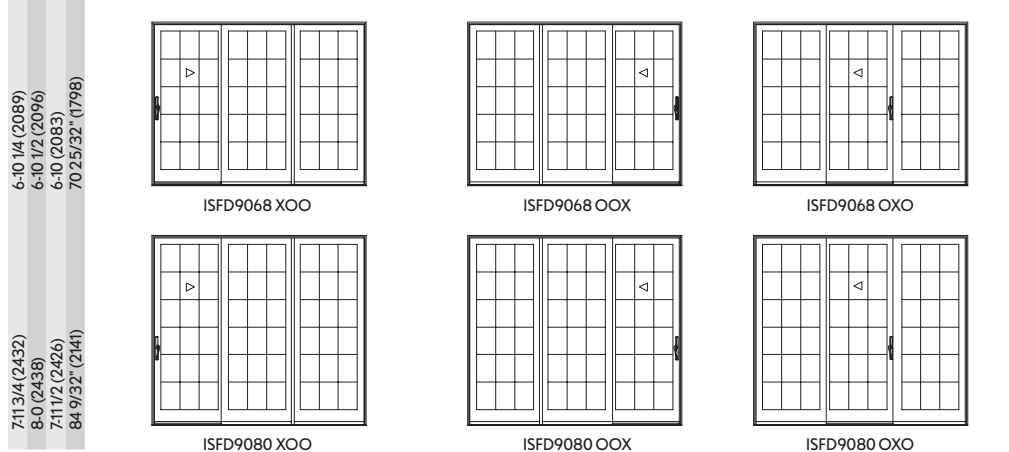
IRTDR7218 / ISFD6068 XO



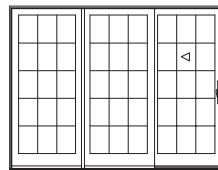
IRTDR7236" / ISFD6068 XO

3 Panel Sliding French Doors

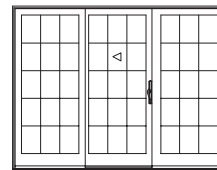
Mas. Opg. (mm)	8-11 (2718)	8-11 (2718)	8-11 (2718)
Rgh. Opg. (mm)	8-11 1/2 (2731)	8-11 1/2 (2731)	8-11 1/2 (2731)
Frame Size (mm)	8-10 1/2 (2705)	8-10 1/2 (2705)	8-10 1/2 (2705)
Glass Size (mm)	29 9/16" (751)	29 9/16" (751)	29 9/16" (751)



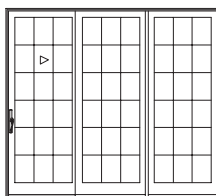
ISFD9068 XOO



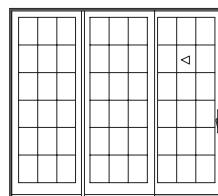
ISFD9068 OOX



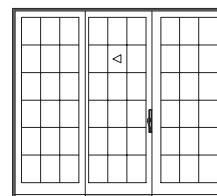
ISFD9068 OXO



ISFD9080 XOO

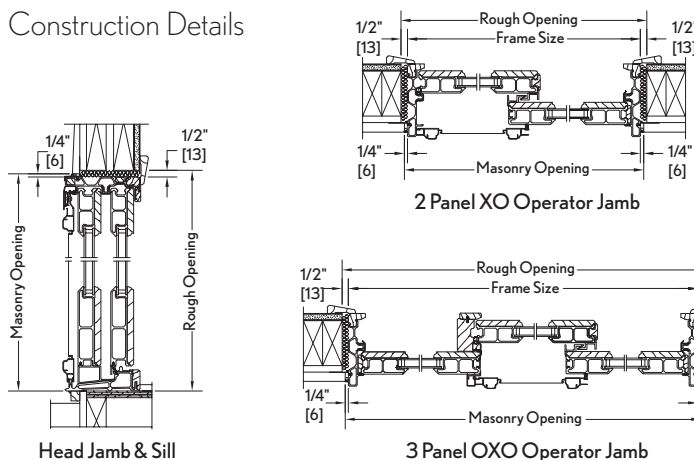


ISFD9080 OOX



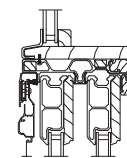
ISFD9080 OXO

Construction Details

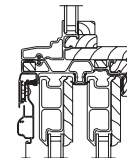


2 Panel XO Operator Jamb

3 Panel OXO Operator Jamb



Round Top Over Sliding French Door



Direct Glaze Transom Over Sliding French Door

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mull up to 1 unit wide by 2 units high. Maximum Rough Opening not to exceed 72" x 100 1/2". Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". True Half Round transoms are available field mull only. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity representative for more information.

* This product is only available field mull.

INSWING FRENCH DOOR

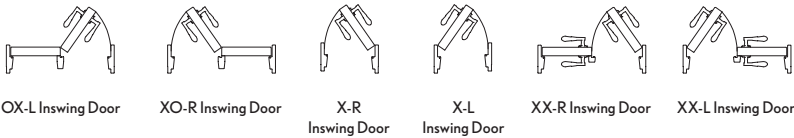
Inswing French Doors

Mas. Opg. (mm)	2-6 13/16 (783)	2-8 13/16 (834)	3-0 13/16 (935)
Rgh. Opg. (mm)	2-7 5/16 (796)	2-9 5/16 (846)	3-1 5/16 (948)
Frame Size (mm)	2-6 5/16 (770)	2-8 5/16 (821)	3-0 5/16 (923)
Glass Size (mm)	22 19/32" (574)	24 19/32" (625)	28 19/32" (726)

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 6-8 9/32" (1734)									
	IIFD2665 O	IIFD2665 XR	IIFD2665 XL	IIFD2865 O	IIFD2865 XR	IIFD2865 XL	IIFD3065 O	IIFD3065 XR	IIFD3065 XL
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 7-0 25/32" (1798)									
	IIFD2668 O	IIFD2668 XR	IIFD2668 XL	IIFD2868 O	IIFD2868 XR	IIFD2868 XL	IIFD3068 XO	IIFD3068 XR	IIFD3068 XL
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 8-4 9/32" (2141)									
	IIFD2680 O	IIFD2680 XR	IIFD2680 XL	IIFD2880 O	IIFD2880 XR	IIFD2880 XL	IIFD3080 O	IIFD3080 XR	IIFD3080 XL

Inswing Door Operation

X signifies an operating door panel, O means stationary. Listing the panels in a door starts from the left to the right, looking from the exterior.



Details and Elevations not to scale.

*2 panel XO also available in OX

**2 and 3 panel XX configurations also available in XX R.

O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel

Optional Inswing French Door Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut shown. Other available lite cuts on page 39.

Inswing French Door Direct Glaze Transoms

Mas. Opg. (mm)	3-0 13/16 (935)	5-11 1/2 (1816)	8-11 13/16 (2738)
Rgh. Opg. (mm)	3-1 5/16 (948)	6-0 (1829)	9-0 5/16 (2751)
Frame Size (mm)	3-0 5/16 (923)	5-11 (1803)	8-11 5/16 (2726)
Glass Size (mm)	33 1/2" (851)	68 3/16" (1732)	104 1/2" (2654)

1-4 (406) 1-4 1/4 (413) 1-3 3/4 (400) 12 15/16" (329)			
	IIFDG3616	IIFDG7216	IIFDG10816

Transom units have a 2" jamb extension for 6 9/16" jambs or a 2 1/4" jamb extension for 6 13/16" jambs. When ordering 6 9/16" or 6 13/16" jambs, add 1/4" to width and 1/8" to height of Frame Size (FS), Rough Opening (RO), or Masonry Opening (MO).

Optional Direct Glaze transom Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Alternate transom lite cuts available to align with select lite cut options shown on page 39.

MULTIPLE ASSEMBLIES

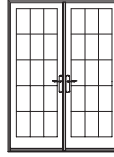
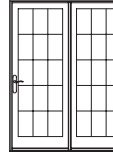
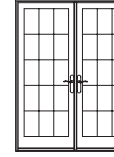
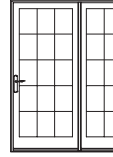
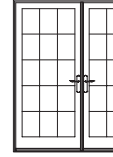
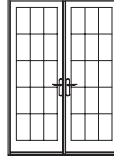
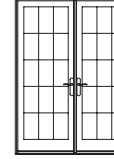
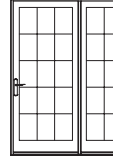
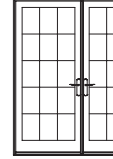
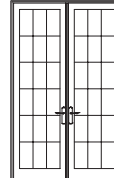
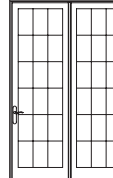
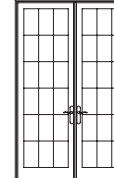
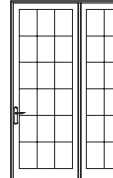
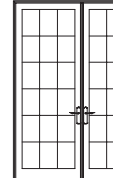
Multiple assembly units can be factory mulled up to 3 units wide by 1 unit high, Maximum Rough Opening not to exceed 109 15/16" x 96"; or 2 units wide by 2 units high, maximum Rough Opening not to exceed 73 5/8" x 100 1/2". Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". True Half Round transoms are available field mulled only. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

INSWING FRENCH DOOR

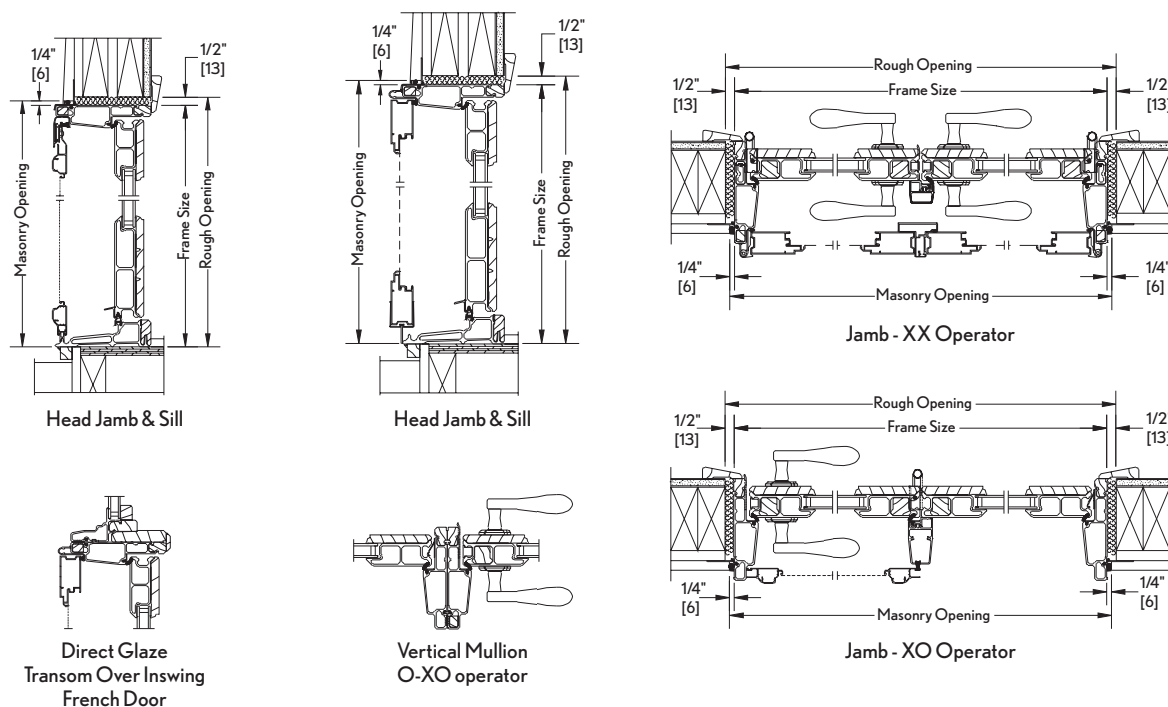
INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

Inswing French Doors

Mas. Opg. (mm)	4-11 1/2 (1511)	5-3 1/2 (1613)	5-11 1/2 (1816)
Rgh. Opg. (mm)	5-0 (1524)	5-4 (1626)	6-0 (1829)
Frame Size (mm)	4-11 (1499)	5-3 (1600)	5-11 (1803)
Glass Size (mm)	22 19/32" (574)	24 19/32" (625)	28 19/32" (726)

6-7 3/4 (2026) 6-8 (2032) 6-7 1/2 (2019) 68 9/32 (1734)						
	IIFD5065 XO	IIFD5065 XXL	IIFD5465 XO	IIFD5465 XXL	IIFD6065 XO	IIFD6065 XXL
6-10 1/4 (2089) 6-10 1/2 (2096) 6-10 (2083) 70 25/32 (1798)						
	IIFD5068 XO	IIFD5068 XXL	IIFD5468 XO	IIFD5468 XXL	IIFD6068 XO	IIFD6068 XXL
7-11 3/4 (2432) 8-0 (2438) 7-11 1/2 (2426) 84 9/32 (2141)						
	IIFD5080 XO	IIFD5080 XXL	IIFD5480 XO	IIFD5480 XXL	IIFD6080 XO	IIFD6080 XXL

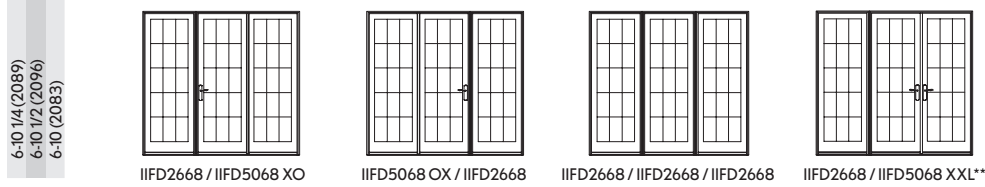
Construction Details



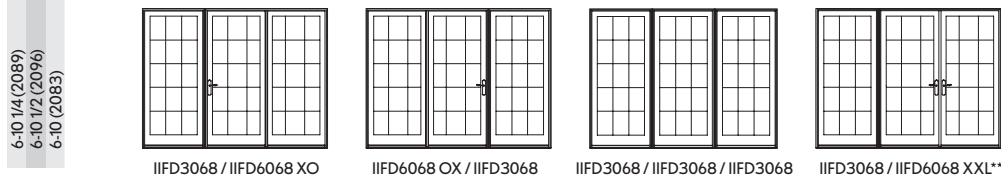
INSWING FRENCH DOOR

Multiple Assemblies - 3 Panel

Mas. Opg. (mm)	7-5 13/16 (2281)	7-5 13/16 (2281)	7-7 7/16 (2323)	7-5 13/16 (2281)
Rgh. Opg. (mm)	7-6 5/16 (2294)	7-6 5/16 (2294)	7-7 15/16 (2335)	7-6 5/16 (2294)
Frame Size (mm)	7-5 5/16 (2269)	7-5 5/16 (2269)	7-6 15/16 (2310)	7-5 5/16 (2269)

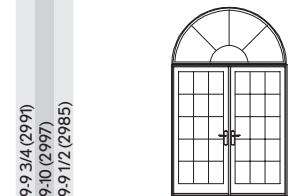
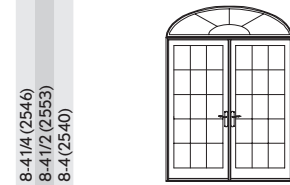


Mas. Opg. (mm)	8-11 13/16 (2738)	8-11 13/16 (2738)	9-1 7/16 (2780)	8-11 13/16 (2738)
Rgh. Opg. (mm)	9-0 5/16 (2751)	9-0 5/16 (2751)	9-1 15/16 (2792)	9-0 5/16 (2751)
Frame Size (mm)	8-11 5/16 (2726)	8-11 5/16 (2726)	9-0 15/16 (2767)	8-11 5/16 (2726)



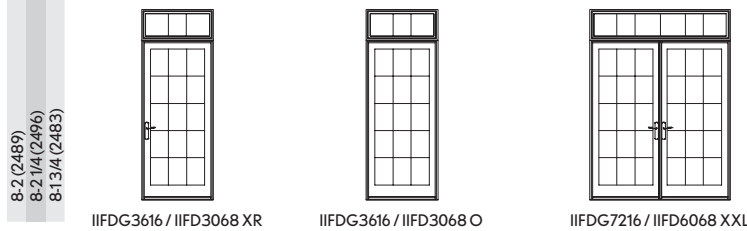
Round Top Over Inswing French Door

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)



Direct Glaze Transom Over Inswing French Door

Mas. Opg. (mm)	3-0 13/16 (935)	3-0 13/16 (935)	5-11 1/2 (1816)
Rgh. Opg. (mm)	3-1 5/16 (948)	3-1 5/16 (948)	6-0 (1829)
Frame Size (mm)	3-0 5/16 (923)	3-0 5/16 (923)	5-11 (1803)



Details and Elevations not to scale.

*This product is only available field mullied.

**2 and 3 panel XX configurations also available in XX R.

O = Stationary X = Operator

Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 66. (Round Top divided lites only available in standard lite cut.)

MULTIPLE ASSEMBLIES

Multiple assembly units can be factory mullied up to 3 units wide by 1 unit high, Maximum Rough Opening not to exceed 109 ¹⁵/₁₆" x 96"; or 2 units wide by 2 units high, maximum Rough Opening not to exceed 73 ⁵/₈" x 100 ¹/₂". Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". True Half Round transoms are available field mullied only. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

OUTSWING FRENCH DOOR

INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

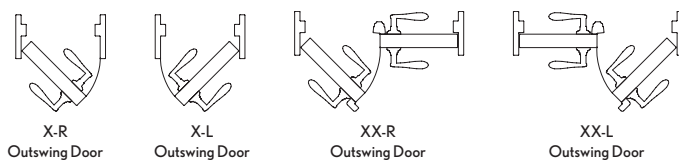
Outswing French Doors

Mas. Opg. (mm)	2-6 13/16 (783)	2-8 13/16 (834)	3-0 13/16 (935)
Rgh. Opg. (mm)	2-7 5/16 (796)	2-9 5/16 (846)	3-1 5/16 (948)
Frame Size (mm)	2-6 5/16 (770)	2-8 5/16 (821)	3-0 5/16 (923)
Glass Size (mm)	22 19/32" (574)	24 19/32" (625)	28 19/32" (726)

6-7 3/4 (2026)									
6-8 (2032)									
6-7 1/2 (2019)									
68 9/32 (1734)									
6-10 1/4 (2089)									
6-10 1/2 (2096)									
6-10 (2083)									
70 25/32 (1798)									
7-11 3/4 (2432)									
8-0 (2438)									
7-11 1/2 (2426)									
84 9/32 (2141)									

Outswing Door Operation

X signifies an operating door panel, O means stationary.
Listing the panels in a door starts from the left to the right, looking from the exterior.



Details and Elevations not to scale.

O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel

Optional Outswing French Door Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Other available lite cuts on page 39.

Transom units have a 2" jamb extension for 6 9/16" jambs or a 2 1/4" jamb extension for 6 13/16" jambs. When ordering 6 9/16" or 6 13/16" jambs, add 1/4" to width and 1/8" to height of Frame Size (FS), Rough Opening (RO), or Masonry Opening (MO).

Optional Direct Glaze transom Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Alternate transom lite cuts available to align with select lite cut options shown on page 39.

Outswing French Door Direct Glaze Transoms

Mas. Opg. (mm)	3-0 13/16 (935)	5-11 1/2 (1816)	8-11 13/16 (2738)
Rgh. Opg. (mm)	3-1 5/16 (948)	6-0 (1829)	9-0 5/16 (2751)
Frame Size (mm)	3-0 5/16 (923)	5-11 (1803)	8-11 5/16 (2726)
Glass Size (mm)	33 1/2" (851)	68 3/16" (1732)	104 1/2" (2654)

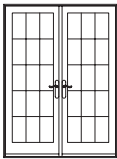
1-4 (406)			
1-4 1/4 (413)			
1-3 3/4 (400)			
12 15/16 (329)			

OUTSWING FRENCH DOOR

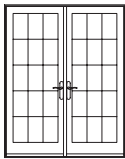
Outswing French Doors

Mas. Opg. (mm)	2-6 13/16 (783)	5-3 1/2 (1613)	5-11 1/2 (1816)
Rgh. Opg. (mm)	2-7 5/16 (796)	5-4 (1626)	6-0 (1829)
Frame Size (mm)	2-6 5/16 (770)	5-3 (1600)	5-11 (1803)
Glass Size (mm)	22 19/32" (574)	24 19/32" (625)	28 19/32" (726)

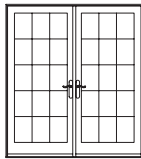
6-7 3/4 (2026)
6-8 (2032)
6-7 1/2 (2019)
6-8 9/32" (1734)



IOFD5065 XXL

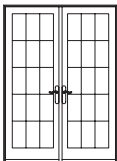


IOFD5465 XXL

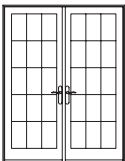


IOFD6065 XXL

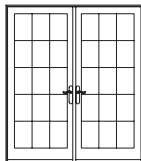
6-10 1/4 (2089)
6-10 1/2 (2096)
6-10 (2083)
70 25/32" (1798)



IOFD5068 XXL

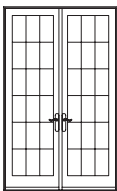


IOFD5468 XXL

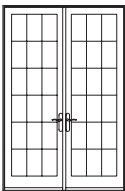


IOFD6068 XXL

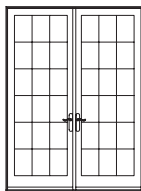
7-11 3/4 (2432)
8-0 (2438)
7-11 1/2 (2426)
84 9/32" (2141)



IOFD5080 XXL



IOFD5480 XXL

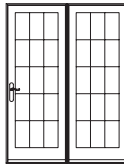


IOFD6080 XXL

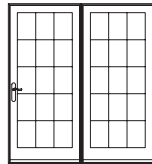
Multiple Assemblies - 2 Panel

Mas. Opg. (mm)	5-1 1/8 (1553)	6-1 1/8 (1857)
Rgh. Opg. (mm)	5-1 5/8 (1565)	6-1 5/8 (1870)
Frame Size (mm)	5-0 5/8 (1540)	6-0 5/8 (1845)

6-7 3/4 (2026)
6-8 (2032)
6-7 1/2 (2019)

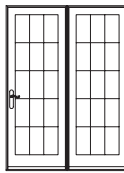


IOFD2665 / IOFD2665*

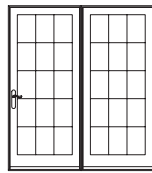


IOFD3065 / IOFD3065*

6-10 1/4 (2089)
6-10 1/2 (2096)
6-10 (2083)

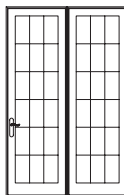


IOFD2668 / IOFD2668*

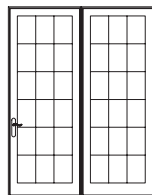


IOFD3068 / IOFD3068*

7-11 3/4 (2432)
8-0 (2438)
7-11 1/2 (2426)

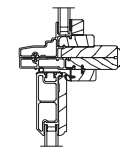
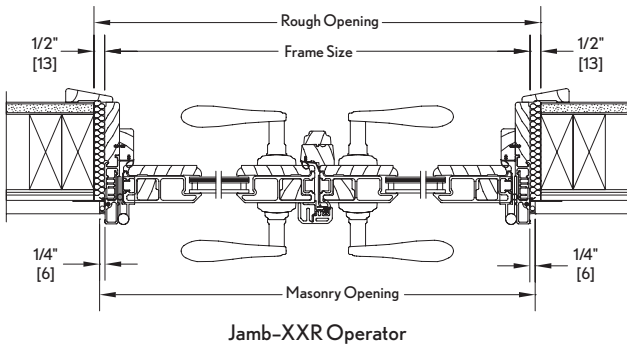
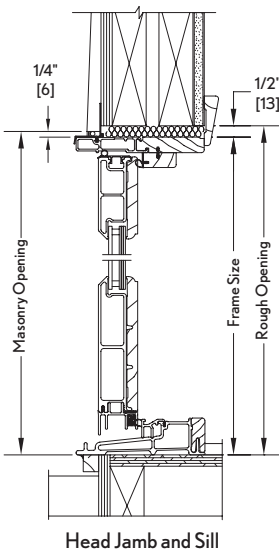


IOFD2680 / IOFD2680*

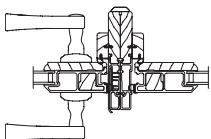


IOFD3080 / IOFD3080*

Construction Details



Direct Glaze
Polygon/Transom
Over Outswing
French Door



Vertical Mullion
XR-O

MULTIPLE ASSEMBLIES

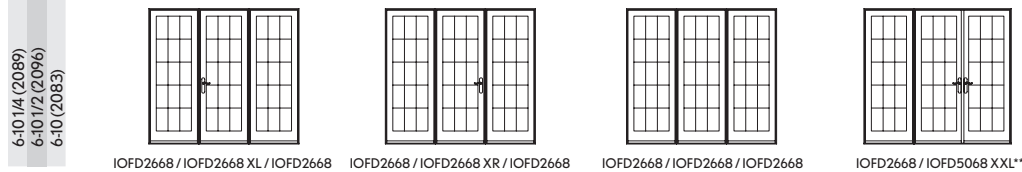
Multiple assembly units can be factory mullied up to 3 units wide by 1 unit high, Maximum Rough Opening not to exceed 109 15/16" x 96"; or 2 units wide by 2 units high, maximum Rough Opening not to exceed 73 5/8" x 100 1/2". Field mull kits available for up to 3 units wide by 2 units high not to exceed 110" x 112". True Half Round transoms are available field mullied only. Structural mullion reinforcement is required for some assemblies. Please consult your local Integrity from Marvin representative for more information.

OUTSWING FRENCH DOOR

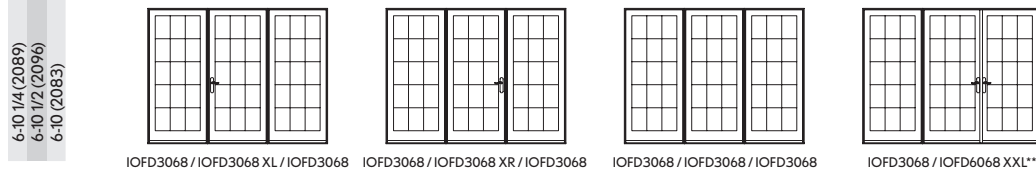
INTEGRITY® FROM MARVIN®
WOOD-ULTREX® SERIES

Multiple Assemblies - 3 Panel

Mas. Opg. (mm)	7-7 7/16 (2323)	7-7 7/16 (2323)	7-7 7/16 (2323)	7-5 13/16 (2281)
Rgh. Opg. (mm)	7-7 15/16 (2335)	7-7 15/16 (2335)	7-7 15/16 (2335)	7-6 5/16 (2294)
Frame Size (mm)	7-6 15/16 (2310)	7-6 15/16 (2310)	7-6 15/16 (2310)	7-5 5/16 (2269)



Mas. Opg. (mm)	9-1 7/16 (2780)	9-1 7/16 (2780)	9-1 7/16 (2780)	8-11 13/16 (2738)
Rgh. Opg. (mm)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-1 15/16 (2792)	9-0 5/16 (2751)
Frame Size (mm)	9-0 15/16 (2767)	9-0 15/16 (2767)	9-0 15/16 (2767)	8-11 5/16 (2726)



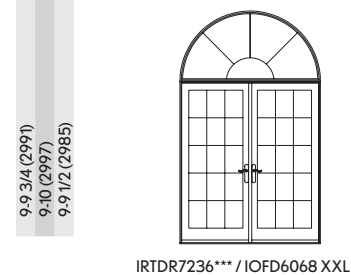
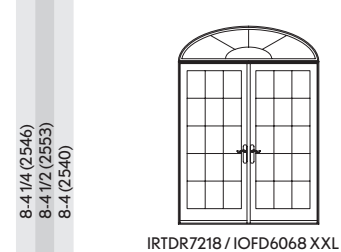
Direct Glaze Transom Over Outswing French Door

Mas. Opg. (mm)	3-0 13/16 (935)	3-0 13/16 (935)	5-11 1/2 (1816)
Rgh. Opg. (mm)	3-1 5/16 (948)	3-1 5/16 (948)	6-0 (1829)
Frame Size (mm)	3-0 5/16 (923)	3-0 5/16 (923)	5-11 (1803)



Round Top Over Outswing French Door

Mas. Opg. (mm)	5-11 1/2 (1816)
Rgh. Opg. (mm)	6-0 (1829)
Frame Size (mm)	5-11 (1803)



Details and Elevations not to scale.

O = Stationary X = Operator
L = Left Hand Panel R = Right Hand Panel

*2 panel mullied assembly

**2 and 3 panel XX configurations also available in XX R.

***This product is only available field mullied.

Optional Outswing French Door Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Other available lite cuts on page 39.

Transom units have a 2" jamb extension for 6 9/16" jambs or a 2 1/4" jamb extension for 6 13/16" jambs. When ordering 6 9/16" or 6 13/16" jambs, add 1/4" to width and 1/8" to height of Frame Size (FS), Rough Opening (RO), or Masonry Opening (MO).

Optional Direct Glaze transom Grilles, GBGs, SDLs and SDLs with Spacer Bar are available in a standard Rectangular cut, as shown. Alternate transom lite cuts available to align with select lite cut options shown on page 39.

Optional Round Top SDL/Grilles and SDL with Spacer Bar are available in a standard cut, as shown. Round Top GBG cuts are shown on page 66. (Round Top divided lites only available in standard lite cut.)

EGRESS OPENINGS

Casement

EGRESS OPENING												
Egress Width			Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
Unit #	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
1735	7-1/4	184	30-11/16	780	1.54	1431	49-1/4	1250	2.53	2350	2.24	2081
1739	7-1/4	184	30-11/16	780	1.75	1626	45-1/4	1149	2.86	2657	2.54	2360
1743	7-1/4	184	38-13/16	986	1.95	1812	41-1/8	1044	3.20	2973	2.85	2648
1747	7-1/4	184	42-11/16	1085	2.15	1997	37-1/4	946	3.52	3270	3.14	2917
1755	7-1/4	184	50-11/16	1288	2.55	2369	29-1/4	742	4.18	3883	3.74	3475
1759	7-1/4	184	54-11/16	1390	2.75	2555	25-1/4	641	4.51	4190	4.04	3753
1763	7-1/4	184	58-11/16	1491	2.95	2741	21-1/4	539	4.84	4497	4.34	4032
1771	7-1/4	184	66-11/16	1694	3.35	3112	13-1/4	336	5.50	5110	4.94	4589
2131	11-1/4	285	26-11/16	678	2.08	1932	53-1/4	1352	2.94	2731	2.66	2471
2135	11-1/4	285	30-11/16	780	2.4	2230	49-1/4	1250	3.38	3140	3.07	2852
2139	11-1/4	285	34-11/16	882	2.71	2518	45-1/4	1149	3.83	3558	3.48	3233
2143	11-1/4	285	38-13/16	986	3.03	2815	41-1/8	1044	4.28	3976	3.91	3633
2147	11-1/4	285	42-11/16	1085	3.33	3094	37-1/4	946	4.71	4376	4.30	3995
2155	11-1/4	285	50-11/16	1288	3.96	3679	29-1/4	742	5.59	5193	5.13	4766
2159	11-1/4	285	54-11/16	1390	4.27	3967	25-1/4	641	6.03	5602	5.54	5147
2163	11-1/4	285	58-11/16	1491	4.58	4255	21-1/4	539	6.47	6011	5.95	5528
2171	11-1/4	285	66-11/16	1694	5.21	4840	13-1/4	336	7.35	6828	6.77	6290
2531	15-1/4	387	26-11/16	678	2.83	2629	53-1/4	1352	3.69	3428	3.38	3140
2535	15-1/4	387	30-11/16	780	3.25	3019	49-1/4	1250	4.24	3939	3.90	3623
2539	15-1/4	387	34-11/16	882	3.67	3410	45-1/4	1149	4.79	4450	4.43	4116
2543	15-1/4	387	38-13/16	986	4.11	3818	41-1/8	1044	5.36	4980	4.96	4608
2547	15-1/4	387	42-11/16	1085	4.52	4199	37-1/4	946	5.89	5472	5.47	5082
2555	15-1/4	387	50-11/16	1288	5.37	4989	29-1/4	742	7.00	6503	6.51	6048
2559	15-1/4	387	54-11/16	1390	5.79	5379	25-1/4	641	7.55	7014	7.03	6531
2563	15-1/4	387	58-11/16	1491	6.21	5769	21-1/4	539	8.10	7525	7.56	7023
2571	15-1/4	387	66-11/16	1694	7.06	6559	13-1/4	336	9.21	8556	8.60	7990
2931	21-1/4/16	555	26-11/16	678	4.06	3772	53-1/4	1352	4.43	4116	4.10	3809
2935	21-1/4/16	555	30-11/16	780	4.66	4329	49-1/4	1250	5.09	4729	4.73	4394
2939	21-1/4/16	555	34-11/16	882	5.27	4896	45-1/4	1149	5.75	5342	5.37	4989
*2943	21-1/4/16	555	38-13/16	986	5.9	5481	41-1/8	1044	6.44	5983	6.02	5593
*2947	21-1/4/16	555	42-11/16	1085	6.48	6020	37-1/4	946	7.08	6578	6.63	6159
*2955	21-1/4/16	555	50-11/16	1288	7.7	7154	29-1/4	742	8.41	7813	7.90	7339
*2959	21-1/4/16	555	54-11/16	1390	8.31	7720	25-1/4	641	9.07	8426	8.53	7925
*2963	21-1/4/16	555	58-11/16	1491	8.91	8278	21-1/4	539	9.73	9039	9.17	8519
*2971	21-1/4/16	555	66-11/16	1694	10.13	9411	13-1/4	336	11.06	10275	10.43	9690
3331	23-1/4	590	26-11/16	678	4.31	4004	53-1/4	1352	5.17	4802	4.82	4479
3335	23-1/4	590	30-11/16	780	4.96	4604	49-1/4	1250	5.94	5522	5.57	5170
**3339	24-1/8	613	34-11/16	882	5.81	5398	45-1/4	1149	6.72	6243	6.31	5862
*3343	23-1/4	590	38-13/16	986	6.27	5825	41-1/8	1044	7.52	6986	7.08	6578
*3347	23-1/4	590	42-11/16	1085	6.89	6401	37-1/4	946	8.27	7683	7.80	7246
*3355	23-1/4	590	50-11/16	1288	8.18	7599	29-1/4	742	9.81	9114	9.29	8631
*3359	23-1/4	590	54-11/16	1390	8.83	8203	25-1/4	641	10.59	9838	10.03	9318
*3363	23-1/4	590	58-11/16	1491	9.48	8807	21-1/4	539	11.36	10554	10.77	10006
*3371	23-1/4	590	66-11/16	1694	10.77	10006	13-1/4	336	12.91	11994	12.26	11390
3731	27-1/4	692	26-11/16	678	5.05	4694	53-1/4	1352	5.91	5492	5.54	5148
3735	27-1/4	692	30-11/16	780	5.81	5397	49-1/4	1250	6.80	6314	6.40	5942
**3739	27-1/4	692	34-11/16	882	6.57	6104	45-1/4	1149	7.68	7135	7.25	6735
*3743	27-1/4	692	38-13/16	986	7.35	6828	41-1/8	1044	8.59	7980	8.13	7553
*3747	27-1/4	692	42-11/16	1085	8.08	7507	37-1/4	946	9.45	8779	8.96	8324
*3755	27-1/4	692	50-11/16	1288	9.59	8909	29-1/4	742	11.22	10424	10.67	9913
*3759	27-1/4	692	54-11/16	1390	10.35	9615	25-1/4	641	12.11	11251	11.53	10712
*3763	27-1/4	692	58-11/16	1491	11.11	10322	21-1/4	539	12.99	12068	12.38	11501
*3771	27-1/4	692	66-11/16	1694	12.62	11724	13-1/4	336	14.76	13712	14.09	13090

Awning

EGRESS OPENING				
Unit #	Vent		DLO	
	Sq. Ft.	cm ²	Sq. Ft.	cm ²
2519	2.05	1905	1.82	1687
2523	2.60	2415	2.34	2172
2527	3.15	2926	2.86	2656
2919	2.46	2285	2.20	2046
2923	3.12	2899	2.84	2634
2927	3.79	3521	3.47	3222
3319	2.87	2666	2.59	2405
3323	3.64	3382	3.33	3096
3327	4.42	4106	4.08	3787
3719	3.28	3047	2.97	2764
3723	4.17	3874	3.83	3558
3727	5.05	4692	4.69	4353
3735	6.82	6336	6.40	5942
3739	7.71	7163	7.25	6737
3747	9.48	8807	8.96	8326
4919	4.52	4199	4.13	3841
4923	5.74	5333	5.32	4945
4927	6.96	6466	6.51	6050
4935	9.39	8724	8.89	8258
4939	10.61	9857	10.08	9362
4947	13.05	12124	12.45	11571

Use of optional Double Hung HP upgrade kit will change Egress measurements. Please contact your local Integrity Sales Representative for more information. ITDH 3856 and ITDH 4256 do not meet Egress code requirements when using the optional Double Hung HP upgrade kit.

* These units meet National Egress Codes requiring 5.7 SF clear opening, 20" clear width, and 24" clear height, not to exceed a floor to sill height of 44". Code restrictions may vary depending on local building codes.

** See page 40.

Double Hung

EGRESS OPENING												
Egress Width			Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
Unit #	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
2236	18-3/8	467	13-11/32	339	1.70	1582	48-19/32	1234	1.70	1582	2.98	2769
2240	18-3/8	467	15-11/32	390	1.96	1819	44-19/32	1133	1.96	1819	3.42	3177
2248	18-3/8	467	19-11/32	491	2.47	2293	36-19/32	929	2.47	2293	4.29	3986
2252	18-3/8	467	21-11/32	542	2.72	2530	32-19/32	828	2.72	2530	4.73	4394
2256	18-3/8	467	23-11/32	593	2.98	2767	28-19/32	726	2.98	2767	5.16	4794
2260	18-3/8	467	25-11/32	644	3.23	3004	24-19/32	625	3.23	3004	5.6	5203
2264	18-3/8	467	27-11/32	695	3.49	3241	20-19/32	523	3.49	3241	6.47	6011
2268	18-3/8	467	29-1/4	745	3.74	3475	16-19/32	421	3.74	3475	6.47	6011
2268C	18-3/8	467	24-1/32	611	3.07	2849	16-19/32	421	3.07	2849	6.03	5602
2272	18-3/8	467	31-11/32	796	4.00	3715	12-19/32	320	4.00	3715	6.9	5411
2276	18-3/8	467	33-11/32	847	4.25	3952	8-19/32	218	4.25	3952	7.34	6819
2636	22-3/8	568	13-11/32	339	2.07	1926	48-19/32	1234	2.07	1926	3.74	3475
2640	22-3/8	568	15-11/32	390	2.38	2215	44-19/32	1133	2.38	2215	4.29	3986
2648	22-3/8	568	19-11/32	491	3.01	2792	36-19/32	929	3.01	2792	5.38	4998
2652	22-3/8	568	21-11/32	542	3.32	3081	32-19/32	828	3.32	3081	5.93	5509
2656	22-3/8	568	23-11/32	593	3.63	3369	28-19/32	726	3.63	3369	6.48	6020
2660	22-3/8	568	25-11/32	644	3.94	3658	24-19/32	625	3.94	3658	7.02	6522
2664	22-3/8	568	27-11/32	695	4.25	3947	20-19/32	523	4.25	3947	8.12	7544
2668	22-3/8	568	29-1/4	745	4.56	4236	16-19/32	421	4.56	4236	8.12	7544
2668C	22-3/8	568	24-1/32	611	3.73	3469	16-19/32	421	3.73	3469	7.57	7033
2672	22-3/8	568	31-11/32	796	4.87	4524	12-19/32	320	4.87	4524	8.66	8045
2676	22-3/8	568	33-11/32	847	5.18	4813	8-19/32	218	5.18	4813	9.21	8556
3036	26-3/8	670	13-11/32	339	2.44	2270	48-19/32	1234	2.44	2270	4.5	4181
3040	26-3/8	670	15-11/32	390	2.81	2610	44-19/32	1133	2.81	2610	5.16	4794
3048	26-3/8	670	19-11/32	491	3.54	3291	36-19/32	929	3.54	3291	6.48	6020
3052	26-3/8	670	21-11/32	542	3.91	3631	32-19/32	828	3.91	3631	7.14	6633
3056	26-3/8	670	23-11/32	593	4.28	3972	28-19/32	726	4.28	3972	7.79	7237
3060	26-3/8	670	25-11/32	644	4.64	4312	24-19/32	625	4.64	4312	8.45	7850
3064	26-3/8	670	27-11/32	695	5.01	4652	20-19/32	523	5.01	4652	9.77	9077
3068	26-3/8	670	29-1/4	745	5.37	4989	16-19/32	421	5.37	4989	9.77	9077
3068C	26-3/8	670	24-1/32	611	4.40	4090	16-19/32	421	4.40	4090	9.11	8463
*3072	26-3/8	670	31-11/32	796	5.74	5333	12-19/32	320	5.74	5333	10.43	9690
*3076	26-3/8	670	33-11/32	847	6.11	5673	8-19/32	218	6.11	5673	11.08	10294
3236	28-6/16	721	13-1/4	335	2.60	2415	48-3/4	1238	2.60	2415	4.88	4534
3240	28-6/16	721	15-1/4	386	3.00	2787	44-3/4	1136	3.00	2787	5.60	5203
3248	28-6/16	721	19-1/4	488	3.78	3512	36-3/4	933	3.78	3512	7.02	6522
3252	28-6/16	721	21-1/4	538	4.18	3883	32-3/4	831	4.18	3883	7.74	7191
3256	28-6/16	721	23-1/4	589	4.57	4246	28-3/4	730	4.57	4246	8.45	7850
3260	28-6/16	721	25-1/4	640	4.97	4617	24-3/4	628	4.97	4617	9.16	8510
3264	28-6/16	721	27-1/4	691	5.36	4980	20-3/4	527	5.36	4980	9.88	9838
*3268	28-6/16	721	29-1/4	742	5.75	5342	16-3/4	425	5.75	5342	10.59	10507
*3272	28-6/16	721	31-1/4	792	6.15	5714	12-3/4	323	6.15	5714	11.31	11167
*3276	28-6/16	721	33-1/4	843	6.54	6076	8-3/4	222	6.54	6076	12.02	4534
3436	30-3/8	771	13-11/32	339	2.81	2615	48-19/32	1234	2.81	2615	5.26	4887
3440	30-3/8	771	15-11/32	390	3.24	3006	44-19/32	1133	3.24	3006	6.03	5602
3448	30-3/8	771	19-11/32	491	4.08	3790	36-19/32	929	4.08	3790	7.57	7033
3452	30-3/8	771	21-11/32	542	4.50	4182	32-19/32	828	4.50	4182	8.34	7748
3456	30-3/8	771	23-11/32	593	4.92	4574	28-19/32	726	4.92	4574	9.11	8463
3460	30-3/8	771	25-11/32	644	5.35	4966	24-19/32	625	5.35	4966	9.88	9179
3464	30-3/8	771	27-11/32	695	5.77	5358	20-19/32	523	5.77	5358	11.42	10610
*3468	30-3/8	771	29-1/4	745	6.19	5751	16-19/32	421	6.19	5751	11.42	10610
*3468C	30-3/8	771	24-1/32	611	5.07	4710	16-19/32	421	5.07	4710	10.65	9894
*3472	30-3/8	771	31-11/32	796	6.61	6142	12-19/32	320	6.61	6142	12.19	11325
*3476	30-3/8	771	33-11/32	847	7.03	6533	8-19/32	218	7.03	6533	12.95	12031
3636	32-3/8	822	13-11/32	339	3.00	2787	48-19/32	1234	3.00	2787	5.64	5240
3640	32-3/8	822	15-11/32	390	3.45	3204	44-19/32	1133	3.45	3204	6.47	6011
3648	32-3/8	822	19-11/32	491	4.35	4040	36-19/32	929	4.35	4040	8.12	7544
3652	32-3/8	822	21-11/32	542	4.80	4458	32-19/32	828	4.80	4458	8.94	8306
3656	32-3/8	822	24-1/32	611	5.40	5020	28-19/32	726	5.40	5020	9.77	9077
*3660	32-3/8	822	25-11/32	644	5.70	5293	24-19/32	625	5.70	5293	10.59	9838
3664	32-3/8	822	27-11/32	695	6.15	5711	20-19/32	523	6.15	5711	12.24	11371
*3668	32-3/8	822	29-1/4	745	6.60	6132	16-19/32	421	6.60	6132	12.24	11371
*3668C	32-3/8	822	24-1/32	611	5.40	5020	16-19/32	421	5.40	5020	11.42	10610
*3672	32-3/8	822	31-11/32	796	7.05	6546	12-19/32	320	7.05	6546	13.07	12142
*3676	32-3/8	822	33-11/32	847	7.50	6964	8-19/32	218	7.50	6964	13.89	12904
3836	34-3/8	873	13-11/32	339	3.18	2959	48-19/32	1234	3.18	2959	6.02	5593
3840	34-3/8	873	15-11/32	390	3.66	3402	44-19/32	1133	3.66	3402	6.9	6410
3848	34-3/8	873	19-11/32	491	4.62	4289	36-19/32	929	4.62	4289	8.66	8045
3852	34-3/8	873	21-11/32	542	5.09	4733	32-19/32	828	5.09	4733	9.55	8872
*3856	34-3/8	873	24-1/32	611	5.74	5330	28-19/32	726	5.74	5330	10.43	9690
*3860	34-3/8	873	25-11/32	644	6.05	5620	24-19/32	625	6.05	5620	11.31	10507
*3864	34-3/8	873	27-11/32	695	6.53	6063	20-19/32	523	6.53	6063	13.07	12142
*3868	34-3/8	873	29-1/4	745	7.00	6503	16-19/32	421	7.00	6503	13.07	12142
*3868C	34-3/8	873	24-1/32	611	5.74	5330	16-19/32	421	5.74	5330	12.19	11325
*3872	34-3/8	873	31-11/32	796	7.48	6950	12-19/32	320	7.48	6950	13.95	12960
*3876	34-3/8	873	33-11/32	847	7.96	7394	8-19/32	218	7.96	7394	14.83	13778
4236	38-3/8	975	13-11/32	339	3.56	3303	48-19/32	1234	3.56	3303	6.78	6299
4240	38-3/8	975	15-11/32	390	4.09	3798	44-19/32	1133	4.09	3798	7.78	7228
4248	38-3/8	975	19-11/32	491	5.15	4789	36-19/32	929	5.15	4789	9.76	9067
4252	38-3/8	975	21-11/32	542	5.69	5284	32-19/32	828	5.69	5284	10.75	9987
*4256	38-3/8	975	24-1/32	611	6.40	5950	28-19/32	726	6.40	5950	11.74	10907
*4260	38-3/8	975	25-11/32	644	6.75	6274	24-19/32	625	6.75	6274	12.73	11827
*4264												

EGRESS OPENINGS

Glider

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
3624	14-1/8	359	19-23/32	501	1.93	1793	60-19/32	1539	1.93	1793	3.36	3122
3636	14-1/8	359	31-23/32	805	3.10	2880	48-19/32	1234	3.10	2880	5.64	5240
3642	14-1/8	359	37-23/32	958	3.69	3428	42-19/32	1082	3.69	3428	6.78	6299
3648	14-1/8	359	43-23/32	1110	4.28	3976	36-19/32	929	4.28	3976	7.93	7367
3660	14-1/8	359	55-23/32	1415	5.45	5063	24-19/32	625	5.45	5063	10.21	9485
4824	20-1/8	511	19-23/32	501	2.75	2555	60-19/32	1539	2.75	2555	4.84	4497
4836	20-1/8	511	31-23/32	805	4.43	4116	48-19/32	1234	4.43	4116	8.12	7544
4842	20-1/8	511	37-23/32	958	5.26	4887	42-19/32	1082	5.26	4887	9.76	9067
*4848	20-1/8	511	43-23/32	1110	6.10	5667	36-19/32	929	6.10	5667	11.40	10591
*4860	20-1/8	511	55-23/32	1415	7.78	7228	24-19/32	625	7.78	7228	14.68	13638
***6036	26-1/8	664	31-23/32	805	5.75	5342	48-19/32	1234	5.75	5342	10.59	9838
*6042	26-1/8	664	37-23/32	958	6.83	6345	42-19/32	1082	6.83	6345	12.73	11827
*6048	26-1/8	664	43-23/32	1110	7.92	7358	36-19/32	929	7.92	7358	14.87	13815
*6060	26-1/8	664	55-23/32	1415	10.10	9383	24-19/32	625	10.10	9383	19.15	17791
***7236	32-1/8	816	31-23/32	805	7.07	6568	48-19/32	1234	7.07	6568	13.07	12142
*7242	32-1/8	816	37-23/32	958	8.41	7813	42-19/32	1082	8.41	7813	15.71	14595
*7248	32-1/8	816	43-23/32	1110	9.74	9049	36-19/32	929	9.74	9049	18.35	17048
*7260	32-1/8	816	55-23/32	1415	12.42	11539	24-19/32	625	12.42	11539	23.63	21953
*9648	21-11/16	551	43-23/32	1110	6.44	5983	36-19/32	929	13.36	12412	24.63	22878
*9660	21-11/16	551	55-23/32	1415	8.21	7627	24-19/32	625	16.67	15487	31.71	29464

Sliding Patio Door

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
5065	23-1/2	597	75-11/32	1915	12.29	11418	N/A	N/A	12.29	11418	25.20	23410
5068	23-1/2	597	77-11/32	1977	12.70	11799	N/A	N/A	12.70	11799	26.07	24215
6065	29-1/2	749	75-11/32	1915	15.43	14059	N/A	N/A	15.43	14059	31.24	29027
6068	29-1/2	749	77-27/32	1977	15.95	14818	N/A	N/A	15.95	14818	32.32	30026
9068	29-1/2	749	77-27/32	1977	19.95	14818	N/A	N/A	15.95	14818	48.48	45039

Sliding French Door

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
5068	23-9/32	592	77-9/16	1971	12.57	11675	N/A	N/A	12.57	11675	21.63	20093
6065	29-9/32	744	75-1/16	1907	15.29	14205	N/A	N/A	15.29	14205	26.44	24566
6068	29-9/32	744	77-9/16	1971	15.80	14678	N/A	N/A	15.80	14678	27.43	25481
9068	29-9/32	744	77-9/16	1971	15.80	14678	N/A	N/A	15.80	14678	41.14	38222
6080	29-9/32	744	91-1/16	2314	18.55	17232	N/A	N/A	18.55	17232	32.75	30424
9080	29-9/32	744	91-1/16	2314	18.55	17232	N/A	N/A	18.55	17232	49.12	45636
8065	41-9/32	1062	75-1/16	1907	21.55	20020	N/A	N/A	21.55	20020	37.63	34955
8068	41-9/32	1062	77-9/16	1971	22.27	20686	N/A	N/A	22.27	20686	39.03	36257
8080	41-9/32	1062	91-1/16	2314	26.14	24285	N/A	N/A	26.14	24285	46.60	43290

* These units meet National Egress Codes requiring 5.7 SF clear opening, 20" clear width, and 24" clear height, not to exceed a floor to sill height of 44". Code restrictions may vary depending on local building codes.

** Floor to clear opening is calculated using 6'-10 1/4" from finished floor to rough opening header.

*** These units do not meet the requirement of not exceeding a floor to sill height of 44" if the floor to sill height is calculated using 6'-10 1/4" from finished floor to rough opening header. Please contact your local Integrity representative for adjustment calculations on meeting egress.

Inswing French Door

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
2665 X	25-5/8	651	76-9/16	1944	13.63	12663	N/A	N/A	13.63	12663	9.95	9244
2865 X	27-5/8	702	76-9/16	1944	14.69	13647	N/A	N/A	14.69	13647	10.88	10105
3065 X	31-5/8	804	76-9/16	1944	16.81	15617	N/A	N/A	16.81	15617	12.74	11836
2668 X	25-5/8	651	79-1/16	2007	14.07	13071	N/A	N/A	14.07	13071	10.32	9588
2868 X	27-5/8	702	79-1/16	2007	15.17	14093	N/A	N/A	15.17	14093	11.28	10479
3068 X	31-5/8	804	79-1/16	2007	17.36	16128	N/A	N/A	17.36	16128	13.22	12282
2680 X	25-5/8	651	92-9/16	2350	16.47	15301	N/A	N/A	16.47	15301	12.32	11446
2880 X	27-5/8	702	92-9/16	2350	17.76	16500	N/A	N/A	17.76	16500	13.47	12514
3080 X	31-5/8	804	92-9/16	2350	20.33	18887	N/A	N/A	20.33	18887	15.78	14660
5065 XO, OX	25-9/16	650	76-9/16	1944	13.38	12430	N/A	N/A	13.38	12430	19.89	18478
5465 XO, OX	27-9/16	700	76-9/16	1944	14.43	13406	N/A	N/A	14.43	13406	21.75	20206
6065 XO, OX	31-9/16	802	76-9/16	1944	16.52	15348	N/A	N/A	16.52	15348	25.48	23672
5068 XO, OX	25-9/16	650	79-1/16	2007	13.83	12848	N/A	N/A	13.83	12848	20.63	19166
5468 XO, OX	27-9/16	700	79-1/16	2007	14.91	13852	N/A	N/A	14.91	13852	22.56	20959
6068 XO, OX	31-9/16	802	79-1/16	2007	17.07	15859	N/A	N/A	17.07	15859	26.43	24554
5080 XO, OX	25-9/16	650	92-9/16	2350	16.22	15069	N/A	N/A	16.22	15069	24.63	22882
5480 XO, OX	27-9/16	700	92-9/16	2350	17.49	16249	N/A	N/A	17.49	16249	26.94	25028
6080 XO, OX	31-9/16	802	92-9/16	2350	20.03	18608	N/A	N/A	20.03	18608	31.56	29320
5065 XX	52-5/16	1329	76-9/16	1944	27.81	25836	N/A	N/A	27.81	25836	19.89	18478
5465 XX	53-5/16	1354	76-9/16	1944	28.34	26329	N/A	N/A	28.34	26329	21.75	20206
6065 XX	64-5/16	1634	76-9/16	1944	34.19	31764	N/A	N/A	34.19	31764	25.48	23672
5068 XX	52-5/16	1329	79-1/16	2007	28.72	26682	N/A	N/A	28.72	26682	20.63	19166
5468 XX	53-5/16	1354	79-1/16	2007	29.27	27193	N/A	N/A	29.27	27193	22.56	20959
6068 XX	64-5/16	1634	79-1/16	2007	35.30	32795	N/A	N/A	35.30	32795	26.43	24554
5080 XX	52-5/16	1329	92-9/16	2350	33.62	31234	N/A	N/A	33.62	31234	24.63	22882
5480 XX	53-5/16	1354	92-9/16	2350	34.27	31838	N/A	N/A	34.27	31838	26.94	25028
6080 XX	64-5/16	1634	92-9/16	2350	41.33	38397	N/A	N/A	41.33	38397	31.56	29320

Outswing French Door

EGRESS OPENING												
Unit #	Egress Width		Egress Height		Egress Clear Opg.		Floor To Clear Opg.**		Vent		DLO	
	Inches	(mm)	Inches	(mm)	Sq. Ft.	cm ²	Inches	(mm)	Sq. Ft.	cm ²	Sq. Ft.	cm ²
2665 X	25-5/8	651	76-9/16	1944	13.62	12650	N/A	N/A	13.62	12650	9.95	9239
2865 X	27-5/8	701	76-9/16	1944	14.68	13638	N/A	N/A	14.68	13638	10.88	10105
3065 X	31-5/8	803	76-9/16	1944	16.81	15613	N/A	N/A	16.81	15613	12.74	11837
2668 X	25-5/8	651	79-1/16	2008	14.06	13063	N/A	N/A	14.06	13063	10.32	9584
2868 X	27-5/8	701	79-1/16	2008	15.16	14084	N/A	N/A	15.16	14084	11.28	10479
3068 X	31-5/8	803	79-1/16	2008	17.35	16123	N/A	N/A	17.35	16123	13.22	12278
2680 X	25-5/8	651	92-9/16	2351	16.46	15294	N/A	N/A	16.46	15294	12.32	11443
2880 X	27-5/8	701	92-9/16	2351	17.75	16490	N/A	N/A	17.75	16490	13.47	12514
3080 X	31-5/8	803	92-9/16	2351	20.32	18877	N/A	N/A	20.32	18877	15.78	14659
5065 XX	52-5/16	1328	76-9/16	1944	27.79	25819	N/A	N/A	27.79	25819	19.89	18479
5465 XX	56-4/16	1430	76-9/16	1944	29.92	27797	N/A	N/A	29.92	27797	21.75	20206
6065 XX	64-5/16	1633	76-9/16	1944	34.17	31745	N/A	N/A	34.17	31745	25.48	23673
5068 XX	52-5/16	1328	79-1/16	2008	28.70	26662	N/A	N/A	28.70	26662	20.63	19167
5468 XX	56-4/16	1430	79-1/16	2008	30.89	28698	N/A	N/A	30.89	28698	22.56	20959
6068 XX	64-5/16	1633	79-1/16	2008	35.29	32782	N/A	N/A	35.29	32782	26.43	24555
5080 XX	52-5/16	1328	92-9/16	2351	33.60	31215	N/A	N/A	33.60	31215	24.63	22885
5480 XX	56-4/16	1430	92-9/16	2351	36.17	33603	N/A	N/A	36.17	33603	26.94	25028
6080 XX	64-5/16	1633	92-9/16	2351	41.31	38380	N/A	N/A	41.31	38380	31.56	29318

Integrity Casement Round Top by Marvin

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.33	3.03	0.37	0.65	
Insulating Glass/LoE ² - Argon	0.29	3.45	0.37	0.65	N, NC
Insulating Glass/LoE ² - Air-GBG	0.33	3.03	0.34	0.58	
Insulating Glass/LoE ² - Argon-GBG	0.29	3.45	0.34	0.58	N, NC
Insulating Glass/LoE ² - Air-SDL	0.33	3.03	0.34	0.58	
Insulating Glass/LoE ² - Argon-SDL	0.29	3.45	0.34	0.58	N, NC
Insulating Glass/LoE ³ -366 - Air	0.32	3.13	0.25	0.58	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon	0.28	3.57	0.25	0.58	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-GBG	0.32	3.13	0.23	0.52	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon-GBG	0.28	3.57	0.22	0.52	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDL	0.32	3.13	0.23	0.52	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon-SDL	0.28	3.57	0.22	0.52	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.33	3.03	0.23	0.52	SC, S
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.29	3.45	0.22	0.52	N, NC, SC, S

Integrity Direct Glaze Transom/Polygon

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.31	3.23	0.33	0.61	NC
Insulating Glass/LoE ² - Argon	0.27	3.70	0.33	0.61	N, NC
Insulating Glass/LoE ² - Air - GBG	0.31	3.23	0.30	0.54	NC, SC
Insulating Glass/LoE ² - Argon - GBG	0.27	3.70	0.30	0.54	N, NC, SC
Insulating Glass/LoE ² - Air - SDL	0.31	3.23	0.30	0.54	NC, SC
Insulating Glass/LoE ² - Argon - SDL	0.27	3.70	0.30	0.54	N, NC, SC
Insulating Glass/LoE ³ -366-Air	0.30	3.33	0.24	0.51	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-Argon	0.27	3.70	0.22	0.51	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-GBG	0.30	3.33	0.21	0.45	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-Argon-GBG	0.27	3.70	0.20	0.45	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-SDL	0.30	3.33	0.21	0.45	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-Argon-SDL	0.27	3.70	0.20	0.45	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.31	3.23	0.21	0.45	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.27	3.70	0.20	0.45	N, NC, SC, S

Integrity Sliding French Door

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.33	3.03	0.29	0.50	
Insulating Glass/LoE ² - Argon	0.30	3.33	0.29	0.50	N, NC, SC, S
Insulating Glass/LoE ² - Air - GBG	0.33	3.03	0.26	0.43	
Insulating Glass/LoE ² - Argon - GBG	0.30	3.33	0.26	0.43	N, NC, SC, S
Insulating Glass/LoE ² - Air - SDL	0.33	3.03	0.26	0.43	
Insulating Glass/LoE ² - Argon - SDL	0.30	3.33	0.26	0.43	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air	0.33	3.03	0.20	0.45	
Insulating Glass/LoE ³ -366-Air-Argon	0.29	3.33	0.19	0.45	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-GBG	0.33	3.03	0.17	0.39	
Insulating Glass/LoE ³ -366-Air-Argon-GBG	0.29	3.33	0.17	0.39	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-SDL	0.33	3.03	0.17	0.39	
Insulating Glass/LoE ³ -366-Air-Argon-SDL	0.29	3.33	0.17	0.39	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.34	2.94	0.17	0.39	
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.31	3.23	0.17	0.39	N, NC, SC, S

Thermal and solar values are subject to update. Values are generated in accordance with NFRC 100-2004 and other applicable NFRC procedures. Argon gas is not available for the altitudes that require capillary tubes. Values are select glazing options, for those options not listed please contact the factory.

SHGC = Solar Heat Gain Coefficient
VT = Visible Light Transmittance

SDL = Without Spacer Bar
SDLS = With Spacer Bar

ENERGY STAR codes:
N = Northern
NC = North Central
SC = South Central
S = Southern

3.1 mm glass thickness shown

Integrity Double Hung Round Top by Marvin

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.32	3.13	0.36	0.61	NC
Insulating Glass/LoE ² - Argon	0.28	3.57	0.36	0.61	N, NC
Insulating Glass/LoE ² - Air-GBG	0.32	3.13	0.32	0.55	NC
Insulating Glass/LoE ² - Argon-GBG	0.28	3.57	0.32	0.55	N, NC
Insulating Glass/LoE ² - Air-SDL	0.32	3.13	0.32	0.55	NC
Insulating Glass/LoE ² - Argon-SDL	0.28	3.57	0.32	0.55	N, NC
Insulating Glass/LoE ³ -366 - Air	0.32	3.13	0.24	0.55	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon	0.28	3.57	0.23	0.55	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-GBG	0.32	3.13	0.22	0.50	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon-GBG	0.28	3.57	0.21	0.50	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDL	0.32	3.13	0.22	0.50	NC, SC, S
Insulating Glass/LoE ³ -366 - Argon-SDL	0.28	3.57	0.21	0.50	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.33	3.03	0.22	0.50	SC, S
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.29	3.45	0.21	0.50	N, NC, SC, S

Integrity Sliding Patio Door

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.32	3.33	0.34	0.58	
Insulating Glass/LoE ² - Argon	0.28	3.57	0.34	0.58	
Insulating Glass/LoE ² - Air - GBG	0.32	3.33	0.30	0.51	N, NC, SC, S
Insulating Glass/LoE ² - Argon - GBG	0.28	3.57	0.30	0.51	N, NC, SC, S
Insulating Glass/LoE ² - Air - SDL	0.32	3.13	0.30	0.51	N, NC, SC, S
Insulating Glass/LoE ² - Argon - SDL	0.28	3.57	0.30	0.51	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air	0.32	3.13	0.23	0.52	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-Argon	0.28	3.57	0.22	0.52	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-GBG	0.32	3.13	0.20	0.46	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-Argon-GBG	0.28	3.57	0.20	0.46	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-SDL	0.32	3.13	0.20	0.46	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-Argon-SDL	0.28	3.57	0.20	0.46	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.33	3.03	0.20	0.46	
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.29	3.45	0.20	0.46	N, NC, SC, S

Integrity Inswing French Door

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.33	3.03	0.28	0.47	
Insulating Glass/LoE ² - Argon	0.30	3.33	0.27	0.47	N, NC, SC, S
Insulating Glass/LoE ² - Air - GBG	0.33	3.03	0.24	0.40	
Insulating Glass/LoE ² - Argon - GBG	0.30	3.33	0.24	0.40	N, NC, SC, S
Insulating Glass/LoE ² - Air - SDL	0.33	3.03	0.24	0.40	
Insulating Glass/LoE ² - Argon - SDL	0.30	3.33	0.24	0.40	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air	0.32	3.13	0.19	0.42	
Insulating Glass/LoE ³ -366-Air-Argon	0.29	3.45	0.18	0.42	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-GBG	0.32	3.13	0.16	0.36	
Insulating Glass/LoE ³ -366-Air-Argon-GBG	0.29	3.45	0.16	0.36	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-SDL	0.32	3.13	0.16	0.36	
Insulating Glass/LoE ³ -366-Air-Argon-SDL	0.29	3.45	0.16	0.36	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.34	2.94	0.16	0.36	
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.31	3.23	0.16	0.36	N, NC, SC, S

Integrity Outswing French Door

ENERGY DATA	U-Value	R-Value	SHGC	VT	ENERGY STAR
Insulating Glass/LoE ² - Air	0.33	3.03	0.28	0.47	
Insulating Glass/LoE ² - Argon	0.30	3.33	0.28	0.47	N, NC, SC, S
Insulating Glass/LoE ² - Air - GBG	0.33	3.03	0.24	0.40	
Insulating Glass/LoE ² - Argon - GBG	0.30	3.33	0.24	0.40	N, NC, SC, S
Insulating Glass/LoE ² - Air - SDL	0.33	3.03	0.24	0.40	
Insulating Glass/LoE ² - Argon - SDL	0.30	3.33	0.24	0.40	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air	0.33	3.03	0.19	0.42	
Insulating Glass/LoE ³ -366-Air-Argon	0.30	3.33	0.18	0.42	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-GBG	0.33	3.03	0.17	0.36	
Insulating Glass/LoE ³ -366-Air-Argon-GBG	0.30	3.33	0.16	0.36	N, NC, SC, S
Insulating Glass/LoE ³ -366-Air-SDL	0.33	3.03	0.17	0.36	
Insulating Glass/LoE ³ -366-Air-Argon-SDL	0.30	3.33	0.16	0.36	N, NC, SC, S
Insulating Glass/LoE ³ -366 - Air-SDLS	0.34	2.94	0.17	0.36	
Insulating Glass/LoE ³ -366 - Argon-SDLS	0.31	3.23	0.16	0.36	N, NC, SC, S

ALTITUDE GUIDELINES

Integrity recommends the maximum altitude limitation for its seal insulated glass units. These limits do not account for glass deflection which may take on a pillowed appearance below these elevation. The limits may be affected by site, location, temperature and/or divided lites. Integrity does not recommend the use of IG units in excess of these specified guidelines. These limitations apply to Integrity units and should not be interpreted as an industry standard.

WOOD-ULTREX

Casement

ALTITUDE LIMITS (FEET)

UNIT SIZE		17	21	25	29	33	37
31	Annealed	NA	5000	6000	7000	9000	10000
	Tempered	NA	9000	10000	10000	10000	10000
35	Annealed	4000	5000	6000	7000	9000	10000
	Tempered	7000	10000	10000	10000	10000	10000
39	Annealed	4000	5000	6000	7000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000
43	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000
47	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	8000	10000	10000	10000	10000	10000
55	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000
59	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000
63	Annealed	4000	5000	6000	8000	9000	10000
	Tempered	9000	10000	10000	10000	10000	10000
71	Annealed	NA	NA	NA	NA	NA	NA
	Tempered	9000	10000	10000	10000	10000	10000

WOOD-ULTREX

Awning

ALTITUDE LIMITS (FEET)

UNIT SIZE		25	29	33	37	49
19	Annealed	4000	5000	5000	6000	5000
	Tempered	7000	8000	9000	10000	10000
23	Annealed	5000	6000	6000	7000	6000
	Tempered	9000	10000	10000	10000	10000
27	Annealed	6000	7000	7000	9000	7000
	Tempered	10000	10000	10000	10000	10000
35	Annealed	NA	NA	NA	10000	10000
	Tempered	NA	NA	NA	10000	10000
39	Annealed	NA	NA	NA	10000	10000
	Tempered	NA	NA	NA	10000	10000
43	Annealed	NA	NA	NA	10000	10000
	Tempered	NA	NA	NA	10000	10000
47	Annealed	NA	NA	NA	10000	10000
	Tempered	NA	NA	NA	10000	10000

WOOD-ULTREX

Glider

ALTITUDE LIMITS (FEET)

UNIT SIZE		36	48	60	72	96
24	Annealed	4000	5000	NA	NA	NA
	Tempered	7000	9000	NA	NA	NA
36	Annealed	5000	6000	8000	9000	NA
	Tempered	9000	10000	10000	10000	NA
42	Annealed	5000	7000	8000	10000	NA
	Tempered	10000	10000	10000	10000	NA
48	Annealed	5000	7000	9000	10000	10000
	Tempered	10000	10000	10000	10000	10000
60	Annealed	5000	7000	9000	10000	10000
	Tempered	10000	10000	10000	10000	10000

WOOD-ULTREX

Double Hung

ALTITUDE LIMITS (FEET)

UNIT SIZE		22	26	30	32	34	36	38	42
36	Annealed	4000	4000	4000	4000	5000	5000	5000	5000
	Tempered	6000	7000	8000	8000	9000	9000	9000	10000
40	Annealed	5000	5000	5000	5000	5000	5000	5000	5000
	Tempered	7000	8000	9000	9000	10000	10000	10000	10000
48	Annealed	5000	6000	6000	6000	6000	6000	6000	7000
	Tempered	8000	9000	10000	10000	10000	10000	10000	10000
52	Annealed	5000	6000	7000	7000	7000	7000	7000	7000
	Tempered	8000	10000	10000	10000	10000	10000	10000	10000
56/68TC	Annealed	5000	6000	7000	7000	7000	8000	8000	8000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000
60	Annealed	5000	6000	7000	8000	8000	8000	8000	8000
	Tempered	9000	10000	10000	10000	10000	10000	10000	10000
64	Annealed	5000	6000	7000	8000	8000	9000	9000	9000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
68	Annealed	5000	6000	7000	8000	8000	9000	9000	9000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
72	Annealed	5000	6000	8000	8000	9000	9000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
76	Annealed	5000	6000	8000	8000	9000	9000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000
68BC	Annealed	5000	7000	8000	8000	9000	10000	10000	10000
	Tempered	10000	10000	10000	10000	10000	10000	10000	10000

WOOD-ULTREX

Casement Picture

ALTITUDE LIMITS (FEET)

UNIT SIZE		ALL WIDTHS
ALL HEIGHTS	Annealed	10000
	Tempered	10000

WOOD-ULTREX

Casement Direct Glaze

ALTITUDE LIMITS (FEET)

UNIT SIZE		73
16	Annealed	4000
	Tempered	10000

WOOD-ULTREX

Double Hung Transom

ALTITUDE LIMITS (FEET)

UNIT SIZE		ALL WIDTHS
ALL HEIGHTS	Annealed	4000
	Tempered	NA

WOOD-ULTREX

Sliding French Door

ALTITUDE LIMITS (FEET)

UNIT SIZE		72	107
16	Annealed	4000	4000
	Tempered	NA	NA

WOOD-ULTREX

Casement Transom

ALTITUDE LIMITS (FEET)

UNIT SIZE		ALL WIDTHS
ALL HEIGHTS	Annealed	4000
	Tempered	NA

WOOD-ULTREX

Double Hung Picture

ALTITUDE LIMITS (FEET)

UNIT SIZE		ALL WIDTHS
ALL HEIGHTS	Annealed	10000
	Tempered	10000

WOOD-ULTREX

Doors

ALTITUDE LIMITS (FEET)

UNIT SIZE		ALL WIDTHS
ALL HEIGHTS	Annealed	NA
	Tempered	10000

WOOD-ULTREX

Swinging French Door

ALTITUDE LIMITS (FEET)

UNIT SIZE		36	72	108
16	Annealed	4000	4000	4000
	Tempered	NA	NA	NA

WOOD-ULTREX

Marvin Round Tops
Made for Integrity
ALTITUDE LIMITS (FEET)

UNIT SIZE		
2118 (ICA)	Annealed	4000
	Tempered	NA
2499 (ICA)	Annealed	5000
	Tempered	NA
2500 (ICA)	Annealed	5000
	Tempered	NA
2519 (ICA)	Annealed	4000
	Tempered	NA
2526 (ICA)	Annealed	5000
	Tempered	NA
2920 (ICA)	Annealed	5000
	Tempered	NA
2928 (ICA)	Annealed	6000
	Tempered	NA
3301 (ICA)	Annealed	4000
	Tempered	NA
3302 (ICA)	Annealed	9000
	Tempered	NA
3320 (ICA)	Annealed	5000
	Tempered	NA
3328 (ICA)	Annealed	7000
	Tempered	NA
3701 (ICA)	Annealed	4000
	Tempered	NA
3702 (ICA)	Annealed	9000
	Tempered	NA
3722 (ICA)	Annealed	5000
	Tempered	NA
3729 (ICA)	Annealed	7000
	Tempered	NA
4121 (ICA)	Annealed	5000
	Tempered	NA
4128 (ICA)	Annealed	7000
	Tempered	10000
4164 (ICA)	Annealed	10000
	Tempered	10000
4921 (ICA)	Annealed	5000
	Tempered	NA
4929 (ICA)	Annealed	8000
	Tempered	10000
4965 (ICA)	Annealed	10000
	Tempered	10000
5724 (ICA)	Annealed	6000
	Tempered	NA
5731 (ICA)	Annealed	9000
	Tempered	10000

WOOD-ULTREX

Marvin Round Tops
Made for Integrity
ALTITUDE LIMITS (FEET)

UNIT SIZE		
5767 (ICA)	Annealed	10000
	Tempered	10000
6523 (ICA)	Annealed	6000
	Tempered	NA
6531 (ICA)	Annealed	9000
	Tempered	10000
6567 (ICA)	Annealed	10000
	Tempered	10000
7325 (ICA)	Annealed	5000
	Tempered	NA
7369 (ICA)	Annealed	NA
	Tempered	10000
3765 (ICA)	Annealed	10000
	Tempered	10000
3777 (ICA)	Annealed	8000
	Tempered	10000
4971 (ICA)	Annealed	7000
	Tempered	10000
4983 (ICA)	Annealed	10000
	Tempered	10000
7359 (ICA)	Annealed	10000
	Tempered	10000
3601 (ITDH)	Annealed	4000
	Tempered	NA
2999/3000 (ITDH)	Annealed	7000
	Tempered	NA
2399/3400 (ITDH)	Annealed	8000
	Tempered	NA
2599/3600 (ITDH)	Annealed	9000
	Tempered	NA
2602 (ITDH)	Annealed	7000
	Tempered	NA
2619 (ITDH)	Annealed	5000
	Tempered	NA
3002 (ITDH)	Annealed	8000
	Tempered	NA
3021 (ITDH)	Annealed	5000
	Tempered	NA
3248 (ITDH)	Annealed	8000
	Tempered	NA
3421 (ITDH)	Annealed	5000
	Tempered	NA
3622 (ITDH)	Annealed	5000
	Tempered	NA
3636 (ITDH)	Annealed	8000
	Tempered	NA

WOOD-ULTREX

Marvin Round Tops
Made for Integrity
ALTITUDE LIMITS (FEET)

UNIT SIZE		
3820 (ITDH)	Annealed	5000
	Tempered	NA
4222 (ITDH)	Annealed	5000
	Tempered	NA
4201 (ITDH)	Annealed	5000
	Tempered	NA
4202 (ITDH)	Annealed	10000
	Tempered	NA
3802 (ITDH)	Annealed	8000
	Tempered	NA
5222 (ITDH)	Annealed	6000
	Tempered	NA
5266 (ITDH)	Annealed	10000
	Tempered	10000
7626 (ITDH)	Annealed	6000
	Tempered	NA
7670 (ITDH)	Annealed	NA
	Tempered	10000
8429 (ITDH)	Annealed	6000
	Tempered	NA
8473 (ITDH)	Annealed	NA
	Tempered	10000
6025 (ITDH/Door)	Annealed	7000
	Tempered	NA
6032 (ITDH/Door)	Annealed	9000
	Tempered	10000
6069 (ITDH/Door)	Annealed	10000
	Tempered	10000
6824 (ITDH/Door)	Annealed	6000
	Tempered	NA
6868 (ITDH/Door)	Annealed	10000
	Tempered	10000
7225 (ITDH/Door)	Annealed	5000
	Tempered	NA
7233 (ITDH/Door)	Annealed	7000
	Tempered	10000
7269 (ITDH/Door)	Annealed	NA
	Tempered	10000
6869 (ITDH/Door)	Annealed	10000
	Tempered	10000
7259 (ITDH/Door)	Annealed	10000
	Tempered	10000

WOOD-ULTREX

Integrity Round Tops
ALTITUDE LIMITS (FEET)

UNIT SIZE		
QCIR29 RH (ICA)	Annealed	7000
	Tempered	NA
QCIR29 LH (ICA)	Annealed	7000
	Tempered	NA
2901 (ICA)	Annealed	4000
	Tempered	NA
2102 (ICA)	Annealed	5000
	Tempered	NA
2502 (ICA)	Annealed	6000
	Tempered	NA
2902 (ICA)	Annealed	8000
	Tempered	NA
2503 (ICA)	Annealed	10000
	Tempered	NA
7318 (ICA)	Annealed	4000
	Tempered	NA
3001 (ITDH)	Annealed	4000
	Tempered	NA
3401 (ITDH)	Annealed	4000
	Tempered	NA
3801 (ITDH)	Annealed	5000
	Tempered	NA
3402 (ITDH)	Annealed	10000
	Tempered	NA
3602/7236 (ITDH/DOOR)	Annealed	10000
	Tempered	NA
7218 (ITDH/DOOR)	Annealed	5000
	Tempered	NA

Integrity Windows and Doors provides these elevation guidelines as a convenience to our customers. Integrity does not recommend installation above the elevation guidelines, and products installed above such elevations are not warranted. A variety of factors, including ambient temperature, altitude, and other conditions outside Integrity's control may cause glass deflection, distortion, or an increase in convexity of the insulating glass units. Deflection, distortion, and increased convexity are not considered product defects and are not covered under Integrity's general warranty; capillary tubes may minimize these effects. Integrity does not warrant the amount or percentage of argon or other inert gas present in insulating glass at any time after manufacture. Inert gas dissipates over time, and may be ineffective in products manufactured with capillary tubes. Thermal efficiencies vary with the application of the product. Integrity does not warrant a specific level of thermal efficiency will be achieved by inert gas, low emissivity coatings, or other product features. Determining the suitability and compliance with local or other applicable building codes or standards, of all building components, including the use of any Integrity product, and the design and installation of any flashing or sealing system, is the responsibility of the buyer, user, architect, contractor, installer, and/or other construction professional. Integrity will not be liable for any problem or damage relating to inappropriate or faulty building design or construction, maintenance, installation, or selection of products. Integrity does not warrant any product's compliance with local or other applicable building codes or standards, or its suitability for use in connection with a project seeking third party certification to any standard.

DESIGN PRESSURE AND WDMA

A design pressure rating, as defined by AAMA/WDMA 101/I.S.2 - 97, 101/I.S.2/NAFS-02 and AAMA/WDMA/CSA 101/I.S.2/A440-05, is an indication of the amount of wind load an individual window or door is intended to withstand when closed and locked. Please consult your local Integrity® from Marvin representative for more information.

Integrity products have gone through HUD's materials release process (Form No. 1280) which allows them to qualify under the WDMA Hallmark Certification Program for compliance with HUD use of materials bulletin requirements (Form No. 59b).

Casement Windows	DP50	Gliders	DP30
Casement Picture	DP50	Round Top Windows	DP50
Awning Windows	DP50	Direct Glazed Windows	DP50
Double Hung Windows	DP40	Sliding Patio Doors	DP30
Double Hung High Performance Kit: Optional high performance upgrade kit increases the design pressure rating of all Double Hung units to DP50 .		Inswing French Doors	DP30
		Sliding French Doors	DP40*
		Outswing French Doors	DP50

* ISFD 8080 has a WDMA Hallmark Design Pressure rating of DP30. All other ISFD units are DP40 rated.



This Limited Warranty applies to Integrity® windows and doors purchased from an authorized Integrity dealer, and extends to the owner of the structure in which the products are originally installed. This Limited Warranty is fully transferable. This Limited Warranty is applicable only to product installed in the U.S.A. and Canada. For information on warranties available in other countries, please contact Integrity at the address or phone number below.

Glass Components

Glass warranties apply to factory-installed glass or Integrity-supplied glass installed by Integrity-authorized service personnel. Clear insulating glass with stainless steel spacers is warranted against seal failure resulting in visible obstruction through the glass for twenty (20) years from the original date of purchase. Glass is warranted against stress cracks caused by manufacturing defects for ten (10) years from the original date of purchase. All other glass and glass features are provided with the same warranties, limitations, and exclusions Integrity receives from its supplier; contact Integrity for further details.

Non-Glass Components

Non-glass components are warranted to be free from manufacturing defects for ten (10) years from the original date of purchase. Non-stainless steel hardware, hardware without physical vapor deposition ("PVD"), and hardware not otherwise specifically-designated as having a "coastal" finish, when installed within one (1) mile of a sea coast or other salt water source, are not warranted.

Exclusive Remedy

If a covered defect appears during the term of the applicable warranty, Integrity will, at its option, repair or replace the product or component, or refund the price paid for the defective product or component. Removal, installation, finishing, refinishing, and disposal costs and services are not included. Integrity will endeavor to supply original replacement parts; however, replacement parts may differ from the original parts. Replacement parts, including upgrades, are warranted for the remainder of the original product warranty.

Exclusions

Damage, defects, or problems resulting from causes outside Integrity's control are excluded from coverage under the Limited Warranty. Such causes include, without limitation:

Installation, Maintenance, and Acts of God

- installation not in conformance with Integrity's installation instructions and applicable building codes
- non-standard installation, such as non-vertical or sloped glazing, upside down, or out-of square
- installation or use in applications exceeding design standards
- field mulls; field finishes
- insulating glass installed more than 5000 feet above sea level without capillary tubes (except as specifically provided in the Integrity Limited Warranty High Altitude Supplement)
- installation or use of Wood-Ultrex® product near pools, saunas, hot tubs, or other high-humidity environments
- failure to follow Integrity's care and maintenance instructions
- failure to properly treat, seal, and maintain exposed wood
- use of brick wash, razor blades or other inappropriate cleaners or chemicals
- misuse, abuse, modification, alteration, accident, negligence
- shifting or settling of the structure in which the product is installed
- extreme weather events, extreme or unusual atmospheric conditions
- normal wear and tear; normal discoloration or fading of finishes
- variation in wood color, texture, and grain
- glass imperfections consistent with ASTM or other industry standards which do not affect structural integrity
- war, insurrection, civil unrest, terrorism, or Acts of God

Warp Bow, twist, and warp shall not be considered defects unless in excess of ¼" in the plane of the door.

Water Management Products installed in wall systems that do not allow for proper moisture management, such as exterior insulation and finish systems (EIFS) or "synthetic stucco" without effective engineered drainage systems, are not covered under the Limited Warranty.

Thermal Efficiency Integrity does not warrant the amount or percentage of argon or other inert gas present in insulating glass at any time after manufacture. Inert gas dissipates over time, and may be ineffective in products manufactured with capillary tubes. Thermal efficiencies vary with the application of the product. Integrity does not warrant a specific level of thermal efficiency will be maintained by inert gas, low emissivity coatings, or other product features.

Condensation Condensation is not a product defect, but the result of excess humidity. Condensation, frost, or mold, mildew, or fungus on product surfaces is not covered by the Limited Warranty.

Finish Degradation Degradation or failure of the Ultrex® finish, hardware, or other components due to environmental conditions such as air pollutants, acid rain, salt accumulation, chemicals, or exposure to other corrosive or abrasive substances is not covered by the Limited Warranty.

Screens Screens are not designed to, and will not prevent falls.

Disclaimers, Limitations, and Additional Terms and Conditions

Disclaimers This Limited Warranty is the only warranty, written or oral, express or implied, provided by Integrity. No dealer, employee, or agent of Integrity, nor any third party, may create or assume any other liability, obligation, or responsibility on behalf of Integrity. ALL IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. Any implied warranty which cannot be disclaimed under applicable law will be limited in duration to the shortest permissible term and, in any event, will not exceed the term of the applicable express limited warranty; the requirements for presenting any claim so affected will be as provided in this Limited Warranty. Any product or component not specifically subject to this Limited Warranty or another written Integrity product warranty is provided AS IS and without warranty. This Limited Warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. THIS WARRANTY IS NOT A WARRANTY OF FUTURE PERFORMANCE OR A STATEMENT OF THE USEFUL LIFE OF ANY INTEGRITY PRODUCT, BUT ONLY A WARRANTY TO REPAIR, REPLACE, OR REFUND.

Limitations IN NO EVENT WILL INTEGRITY BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. IN NO EVENT WILL INTEGRITY'S LIABILITY EXCEED THE PRICE PAID FOR THE AFFECTED PRODUCT OR COMPONENT. The limitations of warranty and liability set forth herein shall survive and apply, even if the exclusive remedy set forth in this Limited Warranty is found to have failed of its essential purpose.

Certifications and Ratings Many standard Integrity products are labeled with the Window & Door Manufacturers Association (WDMA) Hallmark Certification. WDMA Certification is based on the performance of a single sample of the product at the time of manufacture. Many standard Integrity products are labeled with National Fenestration Rating Council (NFRC) ratings. NFRC ratings are based on a combination of computer simulations and physical testing of product samples. Certifications and ratings typically apply to single products only; however certain factory-mulled or combined product configurations may also be certified. Performance of individual products may vary and will change over time, depending upon the conditions of use. WDMA certifications and NFRC ratings are not performance warranties. For details on Hallmark Certification, go to www.WDMA.com. For details on NFRC Energy Performance ratings, go to www.NFRC.org.

Suitability Determining the suitability and compliance with local or other applicable building codes or standards, of all building components, including the use of any Integrity product, and the design and installation of any flashing or sealing system, is the responsibility of the buyer, user, architect, contractor, installer, and/or other construction professional. Integrity will not be liable for any problem or damage relating to inappropriate or faulty building design or construction, maintenance, installation, or selection of products. Windows and doors are only one element of a structure; Integrity does not warrant that third party certification of a building or project to any specific standard will be achieved through the use of any Integrity product.

No Waiver Integrity may, in its discretion, extend benefits beyond what is covered under this Limited Warranty. Any such extension shall apply only to the specific instance in which it is granted, and shall not constitute a waiver of Integrity's right to strictly enforce the exclusions, disclaimers, and limitations set forth in this Limited Warranty in any or all other circumstances.

Warranty Claims All warranty claims must be made within sixty (60) days of the appearance of the defect. To make a warranty claim, contact your local Integrity dealer or distributor. If you do not know the name of your local dealer or distributor, use the "Where to Buy" feature at www.integritywindows.com, or call 800-533-6898 to locate the one nearest you. If, after five days, your dealer or distributor has not responded, send a written request to Integrity Windows & Doors, PO Box 100, Warroad, MN 56763, Attn: Warranty Department. Include the following information: your name, address, and telephone number, the date you purchased your product, the name of the dealer or distributor from whom you purchased your product, a description of product, order number, specific definition of problem or defect, actions you have taken and contacts you have made with your local dealer or distributor. Once we've received your letter, we will respond to your claim promptly.



Call 1-888-419-0076 for the Integrity dealer
nearest you, or visit integritywindows.com