

Windgate®

New
Construction
Vinyl Windows



More Than A Window.™

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Duralite®
InnovativE®
ENERGY MANAGEMENT SYSTEM

Look for the
ENERGY STAR label
on qualified products.



The Power of a National Network, the Service of a Regional Supplier, the Support of Local People!

Lifetime Window Warranty

The ASSURANCE Plus® Limited Lifetime Warranty applies to any manufacturing defects and/or component failures. As one customer stated, "It's as good as it gets."

ASSURANCE Plus®:

- Covers labor for five years and materials for a lifetime.
- Is transferable to a second owner up to 20 years.
- Features a standard commercial warranty of 20 years.
- Is the best warranty in the business.

Remember, the only reason our warranty can be this good is because of the quality windows it covers.

The American Window Alliance (AWA)

We are a national network of independent manufacturers responding to regional customer demands, using our strength as high-quality, regional window suppliers.

Using the unique talents of each member, the AWA has created the Alliance Window Systems brand. A line of window and door systems that presents customers with the opportunity to obtain the strongest, most attractive products available.

The AWA offers customers the strength of a large national supplier, and the flexibility of a local organization.

Specify Alliance Window Systems Today

Quality materials and exceptional design set Alliance Windows apart from the competition. The value, appearance, convenience, service, security, and peace of mind – combined with our incredible warranty – make Alliance Windows an exceptional investment. Specify Alliance Windows through your contractor or builder.

All Alliance Window products meet American Architectural Manufacturers Association (AAMA) standards and are Energy Star rated.



The American Window Alliance:

The power of a national network, the service of a regional supplier, and the support of local people.



New Construction Vinyl Window Systems

American Window Alliance—Saving Our Planet One Window at a Time

The American Window Alliance (AWA) wants to make the environment in homes as comfortable as possible, and we don't want to destroy the planet's environment doing it.

We are efficiency experts and our efficiency has many benefits. The most important benefit is the energy that will be saved. The technology of our InnovativE® glass – combined with our Duralite® composite warm edge spacer – more effectively seals a home and uses less energy for heating and cooling. The less energy used, the less impact there is on the environment.

Our windows require no maintenance or surface refinishing which eliminates the use of potentially harmful chemicals and sanding for a homeowner – further lessening any impact on the environment.

Imagine every home being wrapped in a nice, warm blanket of Alliance windows!

If we all do our part, you and your clients will have something beautiful to look at through windows manufactured by the AWA.

Lessening Our Carbon Footprint

Alliance windows will have an impact far beyond the rooms where they are installed. Energy-efficient windows guarantee lower energy bills, a lower environmental impact, and most importantly, a greener future.

Homeowners lose a good part of their heating and cooling dollars due to window inefficiencies. Our green windows efficiently insulate their homes, greatly reducing energy consumption, saving money in annual energy costs.

And as important as saving money, more efficient windows also lessen the production of harmful gases such as CO₂. This means savings will be seen well beyond the energy costs. In fact, if every home in America had the technology in the glass systems of our windows, we could save the environment over 56 million tons of CO₂ a year.

Alliance New Construction

Vinyl Windows are specifically designed to meet the discerning needs of architects, builders, homeowners, and the changing needs of the residential building industry. The result is a high-performance series of vinyl windows that feature aesthetically integrated window styles, strength and durability.

Alliance Windows' InnovativE® Energy Management

System is a high performance insulating glass system manufactured to conserve energy and increase comfort in homes, year-round. Our insulated glass system is tailored by each of our seven regional manufacturers for maximum energy efficiency in the climate each serves. Our insulating glass units are specifically engineered to lower energy bills with an added bonus of reducing noise transmission!

Green Is More Than a Color, It's an Obligation.

The AWA is a national network of independent manufacturers responding to regional customer demands, combining our strengths as high-quality, regional window suppliers.

Using the unique talents of each member, the American Window Alliance has created the Alliance Window Systems brand – a line of window and door systems that presents you with the strongest, most attractive products available.

Our goal is to provide you with a quality product while incorporating proven environmentally-friendly materials and practices. The American Window Alliance products provide superior quality, state-of-the-art vinyl window products that are beautifully styled. Dedicated to excellence, our national network of manufacturers combines experience, technology and superior craftsmanship to produce our exceptional product lines. We understand that homeowners demand premier quality vinyl windows that conform to the industry's highest performance standards. Alliance Window Systems' replacement windows series and Windgate® series for new construction represent both

the highest industry standards and our own exacting code of excellence. And, our products are backed with one of the strongest warranties available in the industry today.

Alliance is not just our name. It also accurately describes our approach to doing business, and it's why we can provide such an exceptional warranty on every window we offer.

Proud, independent regional fabricators meticulously craft each of our windows. By linking thoughtfully selected and exceptional fabricators into a national network, or alliance, we are confident of the quality that is designed and built into our windows. So confident, we back our entire product line with an unsurpassed lifetime warranty.

The Power of a National Network, the Service of a Regional Supplier, the Support of Local People!

Innovative®

Your Invisible Barrier

When you consider energy efficiency, perhaps the most critical part of any window is the insulating glass system. It only makes sense: the glass has the largest surface area.

Windows Can Help

To understand how windows can help, you must first understand that energy is lost through windows in three major ways: conduction, convection and radiation.

Conduction

The framing of all Windgate windows is made from vinyl, a natural insulator. To prevent energy loss through conduction, all insulated glass units utilize Duralite® "warm edge" technology. Using a low-conductance spacer, this method assures maximum resistance to energy flow.

Convection

Energy can also be lost through natural convection currents that can form within the insulating glass. That's why Windgate® glass is 3/4" thick, shown by government testing to be the optimum dimension to prevent these convection currents.

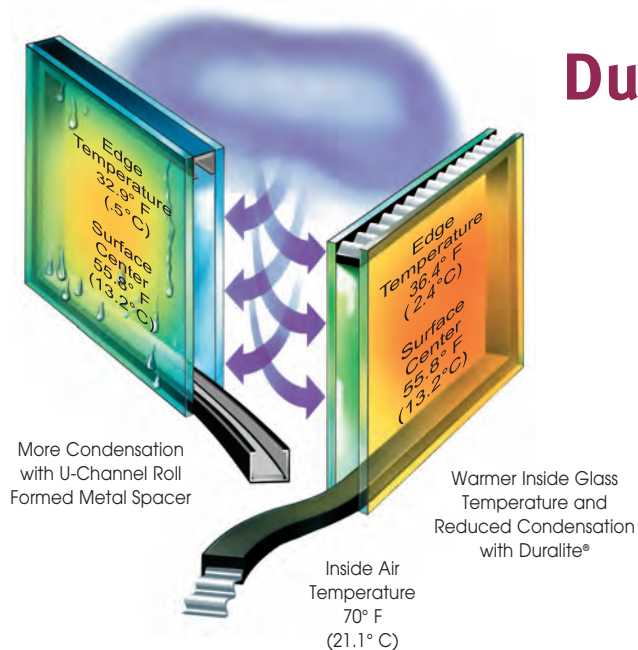
Radiation

Radiation occurs when long wave heat energy moves toward cold areas.

The most effective barrier to radiation is an optimal special Low "E" coating, a standard part of our Innovative® glass.

This special coating actually reflects the long wave radiation back to its source.

This is important to understand, as radiation affects energy consumption, no matter what part of the country you call home.



Duralite®

Solar Gain vs. Heat Loss

The concerns of home owners in the North are quite different than those in the South.

In the North, where heating is a concern, glass must allow maximum solar gain, while preventing heat loss.

Conversely, Southern home owners are concerned with unwanted solar heat gain, when long wave radiation raises cooling costs.

When you understand these regional differences, it makes sense that the insulating glass system should be manufactured to address those concerns.

That's why Windgate® Innovative® glass systems are tailored by each regional manufacturer for maximum energy efficiency in the climates each serves.

We produce each of our insulating glass units to be specifically engineered to lower your energy bills, and reduce noise transmission.

What's Your Style?

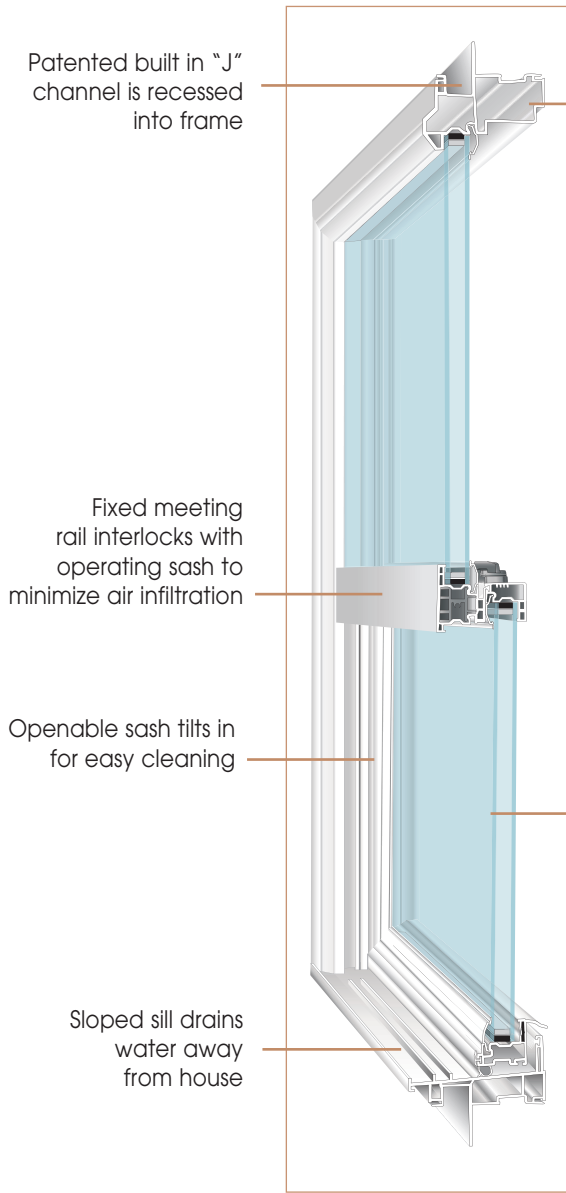
No matter what style home you have, or what style window you want, Windgate® can fill your request.

And, since all Windgate® windows are made to your specific dimensions, you know you'll get a window that not only fits your style, but fits your home as well.

Anatomy of Efficiency

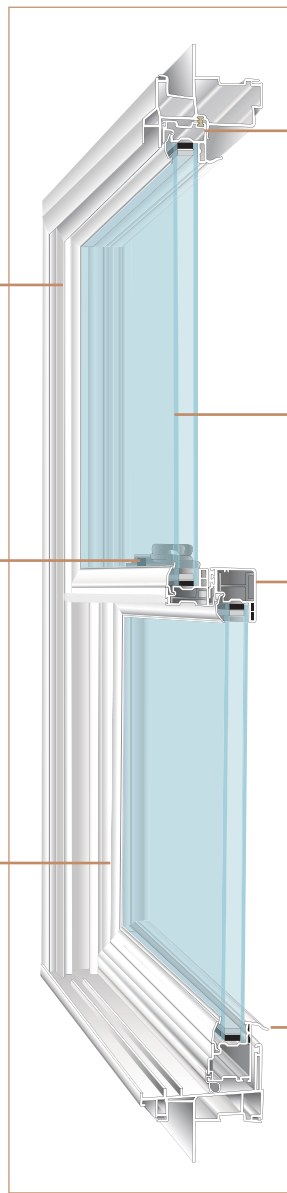
Energy efficient Windgate® windows provide an effective barrier to any weather condition.

New Construction Vinyl Window Systems



Heavy gauge vinyl frame extrusion for strength & durability

Single-Hung



Deep pocketed head with compression seal weather strip

Dual layers of wool pile weather stripping.

3/4" Insulating glass, choose our InnovativeE® for the most energy efficient glazing option.

Die-cast cam lock and keeper

3/4" insulated glass with Duralite® warm edge technology

Top & bottom sash interlock at meeting rails for added security and to minimize air infiltration

Top and bottom sash tilt in for easy cleaning

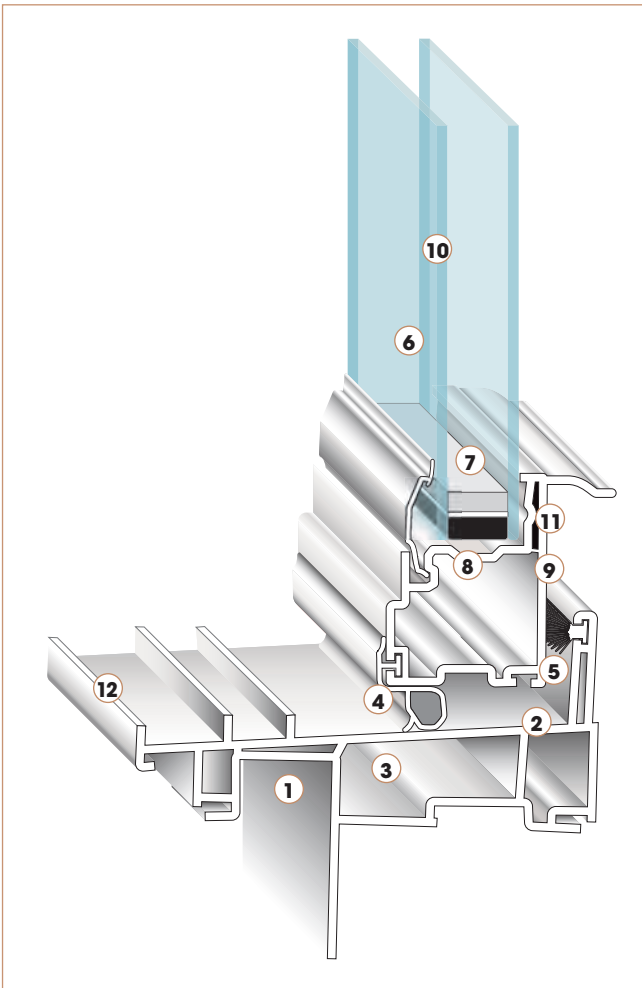
Integral finger lift on top and bottom sash for ease of operation

Double-Hung



Look for the ENERGY STAR label on qualified products.

The Power of a National Network, the Service of a Regional Supplier, the Support of Local People!



- ❶ Double-wall, integral “J” channel: Designed into the frame, eliminating the cost of an add-on “J” channel while providing a pleasing “beveled” exterior look.
- ❷ Heavy walled PVC framing acts as a natural insulator.
- ❸ Dead air spaces within the frame and sash profiles further resist energy flow.
- ❹ Closed cell compression seal at sloped sill resists air and water penetration.
- ❺ Triple-fin seal weather stripping at sill further reduces air infiltration.
- ❻ 3/4” Insulating glass provides optimum energy efficiency.
- ❼ “Warm edge” low conductance spacer resists energy flow through the edge of glass.
- ❽ Water management grooves channel moisture away from insulated glass sealant.
- ❾ Dual hollows at lift rail add strength and insulation.
- ❿ Optional Innovative® High Performance Glass utilizes Low E coating specifically engineered for local requirements.
- ⓫ Direct set back bedding bonds glass to sash, reducing air and water infiltration potential.
- ⓬ Rigid screen pocket on sill reduces “screen rattle,” even on windy days.

Casements/Awnings

- Sash opens completely, so windows can be cleaned easily from inside your home*
- All components are corrosion resistant, providing years of trouble-free performance
- Multi-Point locking system locks sash at multiple points for utmost security
- Three layers of weather stripping assure effective barrier to air and water penetration
- Optional in some regions, multiple units made with single frame construction

Fixed Units

- Mulling system allows fixed units to be mullied to any other window
- Equal sight lines assure uniform exterior appearance of all units

* Does not apply to egress hardware.

Sliders

- Heavy duty brass rollers assure effortless sash travel
- Roller housing transfers weight of glass directly to frame, reducing stress on sash members
- Independent weep chambers on frame assure effective water runoff
- Stylish beveled exterior matches look of double-hung and casement, to provide a uniform exterior appearance

Innovative[®]
ENERGY MANAGEMENT SYSTEM

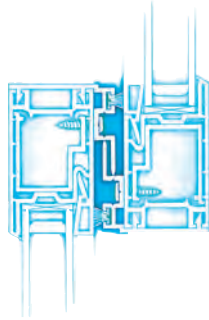
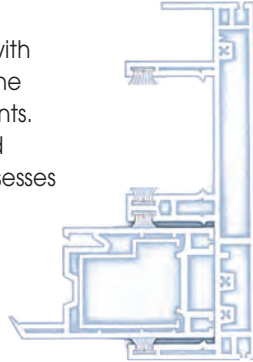
New Construction Vinyl Window Systems

Beauty Becomes The Home

Home owners all agree that natural light "lights up one's life." The Alliance vinyl sliding patio door does just that, with a statement of beauty and the confidence of security.

The Alliance door was designed with maximum glass area to capture the light, while conquering the elements. Through modern, computer-aided design engineering, the door possesses exceptional strength while minimizing frame area. Fusion welded corners keep the sash panels straight and true.

Doors see much more operational use over their lifetime than windows. The Alliance patio door's "easy touch" operation allows movable panels to glide smoothly with minimum effort. The panels lock simply and securely with the highest quality hardware.



Standard Door Features:

- 3/4-inch Insulating glass with an overall frame depth of 4-3/16".
- U Value of 0.27, SHGC of 0.30 with InnovativE® (Low E) coating.
- Single point locking hardware.
- Color matched baked enamel designer handle in white or tan.
- Low-rise sill designed to minimize tripping while keeping water out.
- Heavy-duty extruded screen with easy rolling, no-jump action and adjustable steel rollers for smooth operation.
- Four maintenance free heavy-duty steel rollers.



Standard Colors:

Exterior: White, Tan, Clay, Ivory Cream, Dark Bronze, Terra Bronze, Royal Brown, Forest Green and Black.

Interior: White, Tan, Light Oak, Dark Oak, Cherry, and Black Laminate.

Ask your dealer to view actual samples.



Optional Features:

- Beautiful Brass, Brushed Nickel or Faux Oil Rubbed Bronze keyed or non-keyed handle.
- Two point keyed or non-keyed locking system for greater security (highest security rating based on forced entry test-1000 lbs.).
- Foot lock for added security.
- Foam in the frame.



Standard Sizes Available:

(Illustrations show doors as viewed from outside.)



Standard 2-Lite
Rough Opening

60" x 80"
72" x 80"
72" x 83"
72" x 96"
78" x 80"
78" x 83"
96" x 80"



Standard 3-Lite
Rough Opening

108" x 80"
108" x 83"

Custom sizes are available.

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High-Performance Windows

Windgate New Construction windows are specifically designed to meet the discerning needs of architects, builders, homeowners, and the changing needs of the residential building industry. The result is a high-performance series of vinyl windows that feature aesthetically integrated window styles, strength and durability.

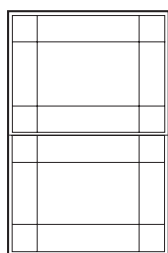
All Windgate New Construction Windows Feature:

- Highest quality vinyl for a lifetime of trouble-free performance.
- Full 3-1/4" jamb depth chambered frame for maximum structural integrity.
- Fusion-welded frames and sashes for extra strength and durability.
- 3/4" Insulated glass for superior thermal performance.
- Optional InnovativE® (Low E) coating system with Warm Edge spacer technology, reduces energy costs.

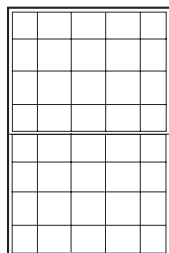
Windgate New Construction Window Systems

- Single-hung, double-hung, slider, and fixed windows come with a double-wall, integral "J" channel designed into the frame, *eliminating the cost of an add-on "J" channel while providing a pleasing "beveled" exterior look.*
- Slider models feature a lift-out sash with heavy-duty brass rollers, *allowing for even large sashes to glide easily without tipping or sticking.*
- Casements feature sashes that open completely, windows can be cleaned easily from inside your home. Multi-point locking system locks sash at multiple points, for the utmost security.
- Companion awning models available.
- Full range of geometric shapes and transoms provide a wide range of architectural choices.
- Available in Colonial, prairie and custom grid patterns with flat or contour shaped muntin bars.

Window Features	Poor Solution	Minimum Solution	Optimum Solution
Interlocking Sash	No weather stripping or interlock at meeting rail	Weather stripping at meeting rail, no interlock	Weather stripped interlocking sashes
Glass Package	Single glazed, possibly with storm windows	1/2" Clear insulating glass, inefficient metal spacer	3/4" InnovativE®, warm edge non-conductive spacer
Glass Spacer	None	Heat conductive metal	Duralife® composite
Locks/Keepers	Single "sweep arm" lock,	Pop-riveted "sweep arm" keeper is part of frame to rail	Screwed in "Cam-Action" lock, keeper attached to rail
Double-Hung Vent Stop	None	Single "pry out"	Spring Loaded
Frame/Sash Material	Screwed together wood or aluminum	Screwed together vinyl or clad wood	Fusion-welded vinyl for maximum strength and integrity
Warranty	None or limited	20 years, but for parts only	Lifetime, with initial coverage for labor



Prairie Style Grid Pattern



Colonial Style Grid Pattern



A full array of custom grid patterns are available. Please consult with your local Alliance representative.

Standard Colors:

Exterior: White, Tan, Clay, Ivory Cream, Dark Bronze, Terra Bronze, Royal Brown, Forest Green and Black.

Interior: White, Tan and Black Laminate

Ask your dealer to view actual samples.

Single-Hung (widths 20" to 48")

Rough Opening	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"
Unit Size	19 1/2"	21 1/2"	23 1/2"	25 1/2"	27 1/2"	29 1/2"	31 1/2"	33 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	43 1/2"	45 1/2"	47 1/2"
Exp. Glass Fixed Light	14 1/2"	16 1/2"	18 1/2"	20 1/2"	22 1/2"	24 1/2"	26 1/2"	28 1/2"	30 1/2"	32 1/2"	34 1/2"	36 1/2"	38 1/2"	40 1/2"	42 1/2"
Exposed Glass Sash	14 13/16"	16 13/16"	18 13/16"	20 13/16"	22 13/16"	24 13/16"	26 13/16"	28 13/16"	30 13/16"	32 13/16"	34 13/16"	36 13/16"	38 13/16"	40 13/16"	42 13/16"
Clear Opening	14 1/2"	16 1/2"	18 1/2"	20 1/2"	22 1/2"	24 1/2"	26 1/2"	28 1/2"	30 1/2"	32 1/2"	34 1/2"	36 1/2"	38 1/2"	40 1/2"	42 1/2"

															36" 36 1/2" 14 3/4" 14"
2036	2236	2436	2636	2836	3036	3236	3436	3636	3836	4036	4236	4436	4636	4836	12 5/8"
															42" 41 1/2" 17 3/4" 17"
2042	2242	2442	2642	2842	3042	3242	3442	3642	3842	4042	4242	4442	4642	4842	15 5/8"
															48" 47 1/2" 20 3/4" 20"
2048	2248	2448	2648	2848	3048	3248	3448	3648	3848	4048	4248	4448	4648	4848	18 5/8"
															54" 53 1/2" 23 3/4" 23"
2054	2254	2454	2654	2854	3054	3254	3454	3654	3854	4054	4254	4454	4654	4854	21 5/8"
															57" 56 1/2" 24 3/4" 24"
2057	2257	2457	2657	2857	3057	3257	3457	3657	3857	4057	4257	4457	4657	4857	22 5/8"
															60" 59 1/2" 26 3/4" 26"
2060	2260	2460	2660	2860	3060	3260	3460	3660	3860	4060	4260	4460	4660	4860	24 5/8"
															66" 65 1/2" 29 3/4" 29"
2066	2266	2466	2666	2866	3066	3266	3466	3666	3866	4066	4266	4466	4666	4866	27 5/8"
															72" 71 1/2" 32 3/4" 32"
2072	2272	2472	2672	2872	3072	3272	3472	3672	3872	4072	4272	4472	4672	4872	30 5/8"

Windgate Windows Minimum Egress Sizes (with Egress Sill and Springs)

Single-Hung	RO	TTT	Clear Opening	Sq. Ft.
	36" x 60"	35.5" x 59.5"	27" Height	5.73
	36" x 66"	35.5" x 65.5"	30" Height	6.36
	40" x 54"	39.5" x 53.5"	24" Height	5.76
	40" x 60"	39.5" x 59.5"	27" Height	6.48

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Double-Hung (widths 20" to 48")









































































































Rough Opening	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"
Unit Size	19 1/2"	21 1/2"	23 1/2"	25 1/2"	27 1/2"	29 1/2"	31 1/2"	33 1/2"	35 1/2"	37 1/2"	39 1/2"	41 1/2"	43 1/2"	45 1/2"	47 1/2"
Exposed Glass	12 1/2"	14 1/2"	16 1/2"	18 1/2"	20 1/2"	22 1/2"	24 1/2"	26 1/2"	28 1/2"	30 1/2"	32 1/2"	34 1/2"	36 1/2"	38 1/2"	40 1/2"
Clear Opening	14 5/8"	16 5/8"	18 5/8"	20 5/8"	22 5/8"	24 5/8"	26 5/8"	28 5/8"	30 5/8"	32 5/8"	34 5/8"	36 5/8"	38 5/8"	40 5/8"	42 5/8"

2036	2236	2436	2636	2836	3036	3236	3436	3636	3836	4036	4236	4436	4636	4836	38"	35 1/2"
2042	2242	2442	2642	2842	3042	3242	3442	3642	3842	4042	4242	4442	4642	4842	42"	41 1/2"
2048	2248	2448	2648	2848	3048	3248	3448	3648	3848	4048	4248	4448	4648	4848	48"	47 1/2"
2054	2254	2454	2654	2854	3054	3254	3454	3654	3854	4054	4254	4454	4654	4854	54"	53 1/2"
2057	2257	2457	2657	2857	3057	3257	3457	3657	3857	4057	4257	4457	4657	4857	57"	56 1/2"
2060	2260	2460	2660	2860	3060	3260	3460	3660	3860	4060	4260	4460	4660	4860	60"	59 1/2"
2066	2266	2466	2666	2866	3066	3266	3466	3666	3866	4066	4266	4466	4666	4866	66"	65 1/2"
2072	2272	2472	2672	2872	3072	3272	3472	3672	3872	4072	4272	4472	4672	4872	72"	71 1/2"

Windgate Windows Minimum Egress Sizes (with Egress Sill and Springs)

Double-Hung	RO	TTT	Clear Opening	Sq. Ft.
	36" x 66"	35.5" x 65.5"	51.625" Height	5.86
	38" x 62"	37.5" x 61.5"	25.625" Height	5.91
	40" x 60"	39.5" x 59.5"	24.625" Height	5.91




























Picture Windows

Rough Opening*	12"	18"	20"	24"	28"	30"	32"	36"	40"	42"	44"	48"	60"
Unit Size	11 1/2"	17 1/2"	19 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	39 1/2"	41 1/2"	43 1/2"	47 1/2"	59 1/2"
Exposed Glass	6 1/2"	12 1/2"	14 1/2"	18 1/2"	22 1/2"	24 1/2"	26 1/2"	30 1/2"	34 1/2"	36 1/2"	38 1/2"	42 1/2"	54 1/2"
													
	PW1224	PW1824	PW2024	PW2424	PW2824	PW3024	PW3224	PW3624	PW4024	PW4224	PW4424	PW4824	PW6024
													
	PW1236	PW1836	PW2036	PW2436	PW2836	PW3036	PW3236	PW3636	PW4036	PW4236	PW4436	PW4836	PW6036
													
	PW1242	PW1842	PW2042	PW2442	PW2842	PW3042	PW3242	PW3642	PW4042	PW4242	PW4442	PW4842	PW6042
													
	PW1248	PW1848	PW2048	PW2448	PW2848	PW3048	PW3248	PW3648	PW4048	PW4248	PW4448	PW4848	PW6048
													
	PW1254	PW1854	PW2054	PW2454	PW2854	PW3054	PW3254	PW3654	PW4054	PW4254	PW4454	PW4854	PW6054
													
	PW1260	PW1860	PW2060	PW2460	PW2860	PW3060	PW3260	PW3660	PW4060	PW4260	PW4460	PW4860	PW6060
													
	PW1266	PW1866	PW2066	PW2466	PW2866	PW3066	PW3266	PW3666	PW4066	PW4266	PW4466	PW4866	PW6066
													
	PW1272	PW1872	PW2072	PW2472	PW2872	PW3072	PW3272	PW3672	PW4072	PW4272	PW4472	PW4872	PW6072

Call out sizes are calculated in inches.

- Grid Patterns for 60" and 66" Picture Windows and Transoms will vary. Casement Picture Windows are 5 lites high. Single-Hung and Double-Hung picture windows are 4 lites high.
- Grid Patterns in picture units will match double- or single-hungs when ordered in that combination.

Transom

Rough Opening*	28"	32"	36"	40"	44"	48"	56"	64"	72"
Unit Size	27 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"	55 1/2"	63 1/2"	71 1/2"
Exposed Glass	22 1/2"	26 1/2"	30 1/2"	34 1/2"	38 1/2"	42 1/2"	50 1/2"	58 1/2"	66 1/2"
									
	TR2812	TR3212	TR3612	TR4012	TR4412	TR4812	TR5612	TR6412	TR7212
									
	TR2818	TR3218	TR3618	TR4018	TR4418	TR4818	TR5618	TR6418	TR7218
									
	TR2824	TR3224	TR3624	TR4024	TR4424	TR4824	TR5624	TR6424	TR7224




































Call out sizes are calculated in inches.

* Check with your fabricator for rough opening when mulling.

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Slider (Single and Double Available)

Rough Opening*	24"	36"	48"	60"	72"	84"	96"
Unit Size	23 1/2"	35 1/2"	47 1/2"	59 1/2"	71 1/2"	83 1/2"	95 1/2"
*Exp. Glass Fixed Light	8 3/4"	14 3/4"	20 3/4"	26 3/4"	32 3/4"	38 3/4"	44 3/4"
*Exposed Glass Sash	8 1/8"	14 1/8"	20 1/8"	26 1/8"	32 1/8"	38 1/8"	44 1/8"
*Clear Opening	8"	14"	20"	26"	32"	38"	44"
















							24" 23 1/2" 18 1/2" 18"
G2424	G3624	G4824	G6024	G7224	G8424	G9624	
							36" 35 1/2" 30 1/2" 30"
G2436	G3636	G4836	G6036	G7236†	G8436†	G9636†	
							42" 41 1/2" 36 1/2" 36"
G2442	G3642	G4842	G6042†	G7242†	G8442†	G9642†	
							48" 47 1/2" 42 1/2" 42"
G2448	G3648	G4848†	G6048†	G7248†	G8448†	G9648†	
							60" 59 1/2" 54 1/2" 54"
G2460	G3660	G4860†	G6060†	G7260†	G8460†	G9660†	

*Applicable only for single operating slider.
 Call out sizes are calculated in inches.
 † Meets Single Slider egress of:
 Clear openable area 5.7 sq. ft.
 Clear openable width 20" Clear openable height 24"
Minimum egress for a Twin Vent Slider is 51" x 47" (RO).








































3-Lite End-Vent Slider

Rough Opening*	72"	84"	96"	108"	120"
Unit Size	71 1/2"	83 1/2"	95 1/2"	107 1/2"	119 1/2"
Exp. Glass Fixed Light	33 3/8"	39 3/8"	45 3/8"	51 3/8"	57 3/8"
Exposed Glass Sash	14 3/8"	17 3/8"	20 3/8"	23 3/8"	26 3/8"
Clear Opening	15"	18"	21"	24"	27"

					36" 35 1/2" 30 1/2" 30"
TLG7236	TLG8436	TLG9636	TLG10836	TLG12036†	
					48" 47 1/2" 42 1/2" 42"
TLG7248	TLG8448	TLG9648†	TLG10848†	TLG12048†	
					60" 59 1/2" 54 1/2" 54"
TLG7260	TLG8460	TLG9660†	TLG10860†	TLG12060†	

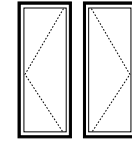
Call out sizes are calculated in inches. Fixed center window constitutes 50% of the unit with operable sashes at 25% each.
 † Meets egress of: Clear openable area 5.7 sq. ft. Clear openable width 20" Clear openable height 24"

Casement

Rough Opening*	18"	20"	24"	28"	30"	36"
Unit Size	17 1/2"	19 1/2"	23 1/2"	27 1/2"	29 1/2"	35 1/2"
Exposed Glass Sash	12 1/2"	14 1/2"	18 1/2"	22 1/2"	24 1/2"	30 1/2"
Clear Opening	9 7/8"	11 7/8"	15 7/8"	19 7/8"	21 7/8"	27 7/8"
						
	C1824	C2024				
						
	C1836	C2036	C2436	C2836	C3036	
						
	C1842	C2042	C2442	C2842	C3042††	
						
	C1848	C2048	C2448	C2848††	C3048††	
						
	C1854	C2054	C2454	C2854††	C3054††	
						
	C1860	C2060	C2460	C2860††	C3060††	
						
	C1866	C2066	C2466	C2866††	C3066††	
						
	C1872	C2072	C2472	C2872††	C3072††	

† Meets egress of:
 Clear openable area 5.7 sq. ft.
 Clear openable width 20"
 Clear openable height 24"
 †† Requires egress hardware

Casement Vent Layout













































Left Right

Specify left-hinge or right-hinge casement as viewed from outside.

Call out sizes are calculated in inches.

Twin Casement































Rough Opening*	36"	40"	48"	56"	60"	72"
Unit Size	35 1/2"	39 1/2"	47 1/2"	55 1/2"	59 1/2"	71 1/2"
Exposed Glass Sash	13 1/4"	15 1/4"	19 1/4"	23 1/4"	25 1/4"	31 1/4"
Clear Opening	10 1/2"	12 1/2"	16 1/2"	20 1/2"	22 1/2"	28 1/2"
						
	TC3624	TC4024	TC4824	TC5624	TC6024	TC7224
						
	TC3636	TC4036	TC4836	TC5636	TC6036	TC7236
						
	TC3642	TC4042	TC4842	TC5642	TC6042††	TC7242†
						
	TC3648	TC4048	TC4848	TC5648††	TC6048††	TC7248†
						
	TC3654	TC4054	TC4854	TC5654††	TC6054††	TC7254†
						
	TC3660	TC4060	TC4860	TC5660††	TC6060††	TC7260†
						
	TC3666	TC4066	TC4866	TC5666††	TC6066††	TC7266†

Call out sizes are calculated in inches.
 † Meets egress of:
 Clear openable area 5.7 sq. ft.
 Clear openable width 20"
 Clear openable height 24"
 †† Requires egress hardware

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Casement/Fixed/Casement

Rough Opening*	54"	60"	72"	84"	90"	108"
Unit Size	53 1/2"	59 1/2"	71 1/2"	83 1/2"	89 1/2"	107 1/2"
Exposed Glass	13 1/2"	15 1/2"	19 1/2"	23 1/2"	25 1/2"	31 1/2"
Clear Opening	10 1/2"	12 1/2"	16 1/2"	20 1/2"	22 1/2"	28 1/2"

						36" 30 1/2"
CFC5436	CFC6036	CFC7236	CFC8436	CFC9036	CFC10836	35 1/2"
						42" 36 1/2"
CFC5442	CFC6042	CFC7242	CFC8442	CFC9042	CFC10842	41 1/2"
						48" 42 1/2"
CFC5448	CFC6048	CFC7248	CFC8448	CFC9048†	CFC10848†	47 1/2"
						60" 54 1/2"
CFC5460	CFC6060	CFC7260	CFC8460	CFC9060††	CFC10860†	59 1/2"
						66" 60 1/2"
CFC5466	CFC6066	CFC7266	CFC8466	CFC9066††	CFC10866†	65 1/2"































Call out sizes are calculated in inches.

† Meets egress of: Clear openable area ≥ 5.7 sq. ft. Clear openable width ≥ 20". Clear openable height ≥ 24".

†† Requires egress hardware

Awning

Rough Opening*	24"	36"	42"	48"	54"	60"
Unit Size	23 1/2"	35 1/2"	41 1/2"	47 1/2"	53 1/2"	59 1/2"
Exposed Glass	18 1/2"	30 1/2"	36 1/2"	42 1/2"	48 1/2"	54 1/2"

						18" 12 1/2"
A2418	A3618	A4218	A4818	A5418	A6018	17 1/2"
						20" 14 1/2"
A2420	A3620	A4220	A4820	A5420	A6020	19 1/2"
						24" 18 1/2"
A2424	A3624	A4224	A4824	A5424	A6024	23 1/2"
						28" 22 1/2"
A2428	A3628	A4228	A4828	A5428	A6028	27 1/2"
						36" 30 1/2"
A2436	A3636	A4236	A4836	A5436	A6036	35 1/2"

Call out sizes are calculated in inches.



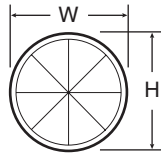
Casement Window Features



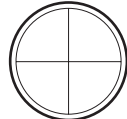
- **Specially Designed Airtight Seal:** Cuts off the maximum amount of air flow while increasing tightness.
- **Heavy Wall/ Reinforced Construction:** Allows for slim line look while insuring maximum strength and durability
- **Multi-Point Lock**
- **Low Profile Curved Lock:** Lies flat out of the way of window treatments
- **Low Torque Operator:** Crank requires 33% less operating force. Fold down handle with nesting cover available.
- **Airtight Operator Cover**

Available with optional add on J-Channel

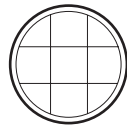
Circle



Starburst

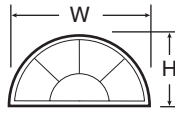


Colonial Four Lite

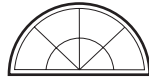


Colonial Nine Lite

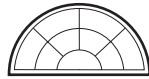
Half-Round



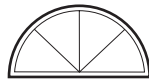
Sunburst



Sunstar

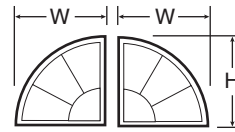


Double Sunburst*

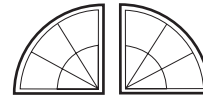


Starburst

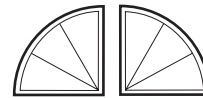
Quarter-Round



Sunburst

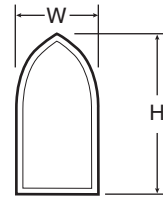


Sunstar



Starburst

Gothic



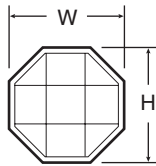
Size	Dimensions
GC1836	17 1/2" x 35 1/2"
GC2040	19 1/2" x 39 1/2"
GC2244	21 1/2" x 43 1/2"
GC2448	23 1/2" x 47 1/2"
GC2856	27 1/2" x 55 1/2"
GC3060	29 1/2" x 59 1/2"
GC3672	35 1/2" x 71 1/2"

Size	Dimensions
CI3030	29 1/2" x 29 1/2"
CI3636	35 1/2" x 35 1/2"

Size	Dimensions
HRD2412	23 1/2" x 11 3/4"
HRD2814	27 1/2" x 13 3/4"
HRD3216	31 1/2" x 15 3/4"
HRD3618	35 1/2" x 17 3/4"
HRD4020	39 1/2" x 19 3/4"
HRD4422	43 1/2" x 21 3/4"
HRD4824	47 1/2" x 23 3/4"
HRD5628	55 1/2" x 27 3/4"
HRD6030	59 1/2" x 29 3/4"
HRD6432	63 1/2" x 31 3/4"
HRD7236	71 1/2" x 35 3/4"

Size	Dimensions
Left	
QRDL2424	23 1/2" x 23 1/2"
QRDL2828	27 1/2" x 27 1/2"
QRDL3030	29 1/2" x 29 1/2"
QRDL3232	31 1/2" x 31 1/2"
QRDL3636	35 1/2" x 35 1/2"
Right	
QRDR2424	23 1/2" x 23 1/2"
QRDR2828	27 1/2" x 27 1/2"
QRDR3030	29 1/2" x 29 1/2"
QRDR3232	31 1/2" x 31 1/2"
QRDR3636	35 1/2" x 35 1/2"

Octagon



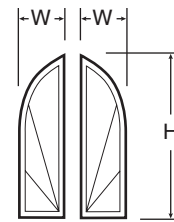
Colonial Nine Lite

Size	Dimensions
OTG2424	23 1/2" x 23 1/2"
OTG3232	31 1/2" x 31 1/2"
OTG3636	35 1/2" x 35 1/2"

* This pattern is available in widths larger than 56"

Choose left-hand or right-hand size as viewed from the outside looking in.

Half-Gothic

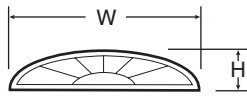


Starburst

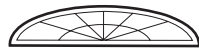
Size	Dimensions
Left	
HGCL1854	17 1/2" x 53 1/2"
HGCL2260	21 1/2" x 59 1/2"
HGCL2666	25 1/2" x 65 1/2"
HGCL2872	27 1/2" x 71 1/2"
Right	
HGCR1854	17 1/2" x 53 1/2"
HGCR2260	21 1/2" x 59 1/2"
HGCR2666	25 1/2" x 65 1/2"
HGCR2872	27 1/2" x 71 1/2"

Choose left-handed or right-handed size as viewed from the outside looking in.

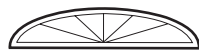
Elliptical



Sunburst



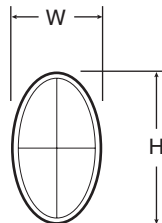
Sunstar



Starburst

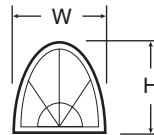
Size	Dimensions
EL6018	59 1/2" x 17 1/2"
EL7220	71 1/2" x 19 1/2"
EL8420	83 1/2" x 19 1/2"

Oval



Colonial Four Lite

Half-Oval



Sunburst



Starburst

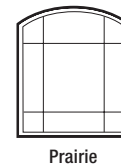
Size	Dimensions
HOV2418	23 1/2" x 17 1/2"
HOV3628	35 1/2" x 27 1/2"

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Extended Arch (Fixed) and Eyebrow

Chord Height (Approx.)	4 3/8"	5 1/8"	5 7/8"	6 5/8"	7 7/16"	8 1/8"	9"	11 1/4"	13 1/2"	17 13/16"
Radius	18"	21"	24"	27"	30"	32"	36"	45"	54"	73"
Rough Opening	24"	28"	32"	36"	40"	44"	48"	60"	72"	96"
Unit Width	23 1/2"	27 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"	59 1/2"	71 1/2"	95 1/2"
Series A Shoulder Height – 7 1/8" (Eyebrow) (Fixed Ext. Arch)	EA24A	EA28A	EA32A	EA36A	EA40A	EA44A	EA48A	EA60A	EA72A	EA96A
Series B Shoulder Height – 19 1/8" (Fixed Ext. Arch)	EA24B	EA28B	EA32B	EA36B	EA40B	EA44B	EA48B	EA60B	EA72B	EA96B
Series C Shoulder Height – 31 1/8" (Fixed Ext. Arch)	EA24C	EA28C	EA32C	EA36C	EA40C	EA44C	EA48C	EA60C	EA72C	
Series D Shoulder Height – 39 1/8" (Fixed Ext. Arch)	EA24D	EA28D	EA32D	EA36D	EA40D	EA44D	EA48D	EA60D	EA72D	
Series E Shoulder Height – 43 1/8" (Fixed Ext. Arch)	EA24E	EA28E	EA32E	EA36E	EA40E	EA44E	EA48E	EA60E	EA72E	
Series F Shoulder Height – 47 1/8" (Fixed Ext. Arch)	EA24F	EA28F	EA32F	EA36F	EA40F	EA44F	EA48F	EA60F	EA72F	
Series G Shoulder Height – 55 1/8" (Fixed Ext. Arch)	EA24G	EA28G	EA32G	EA36G	EA40G	EA44G	EA48G	EA60G		
Series H Shoulder Height – 61 1/8" (Fixed Ext. Arch)	EA24H	EA28H	EA32H	EA36H	EA40H	EA44H	EA48H	EA60H		
Series J Shoulder Height – 67 1/8" (Fixed Ext. Arch)	EA24J	EA28J	EA32J	EA36J	EA40J	EA44J	EA48J			
Series K Shoulder Height – 79 1/8" (Fixed Ext. Arch)	EA24K	EA28K	EA32K	EA36K	EA40K	EA44K	EA48K	Colonial	Cathedral	

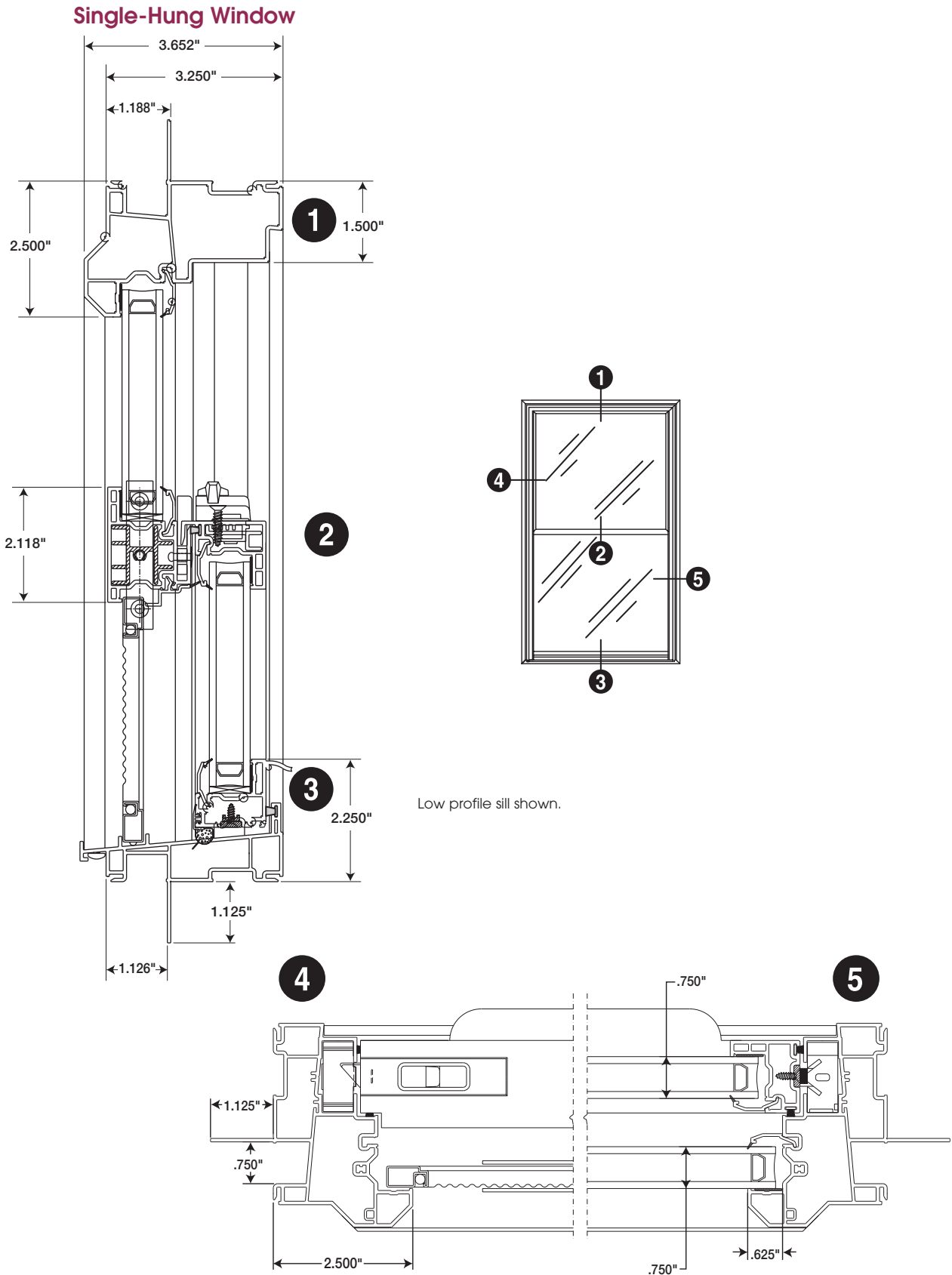
Innovative[®]
ENERGY MANAGEMENT SYSTEM



Call out indicates width expressed in inches and shoulder height (series code).
Custom sizes available.

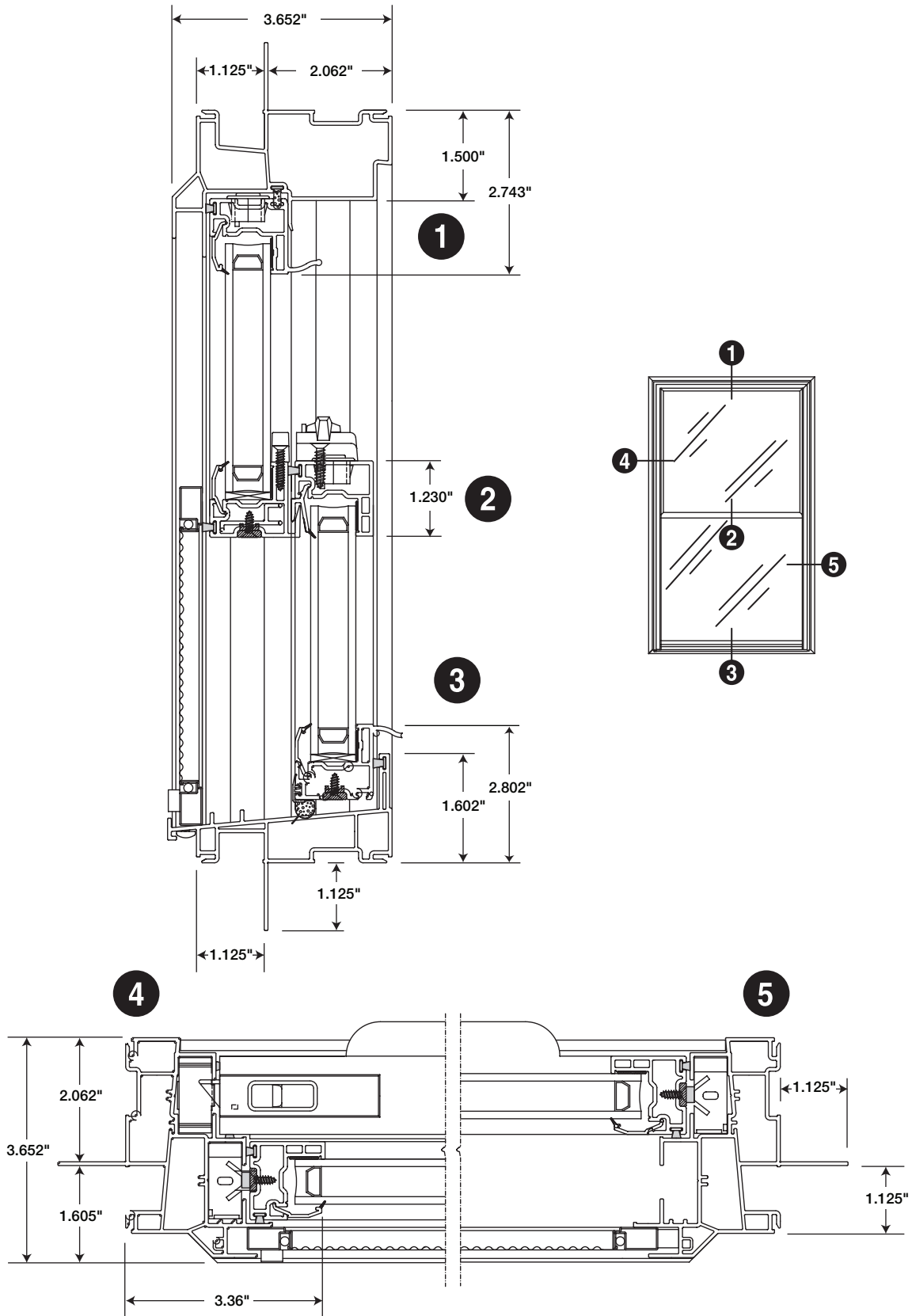
Prairie grids are not available in A series.

New Construction Vinyl Window Systems

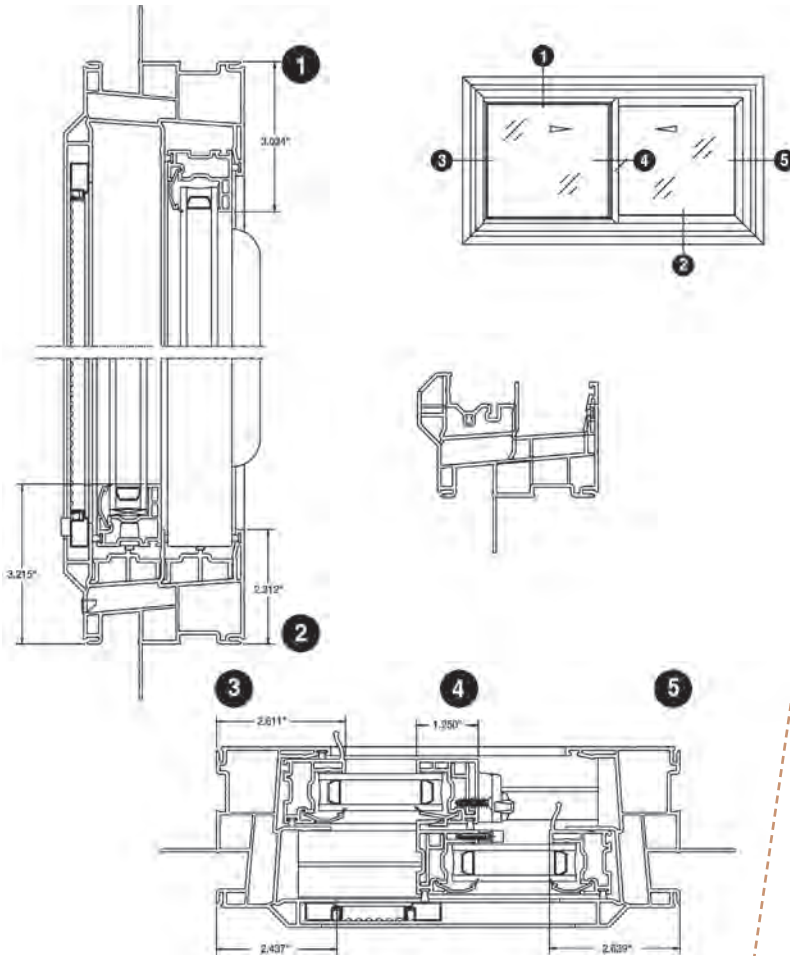


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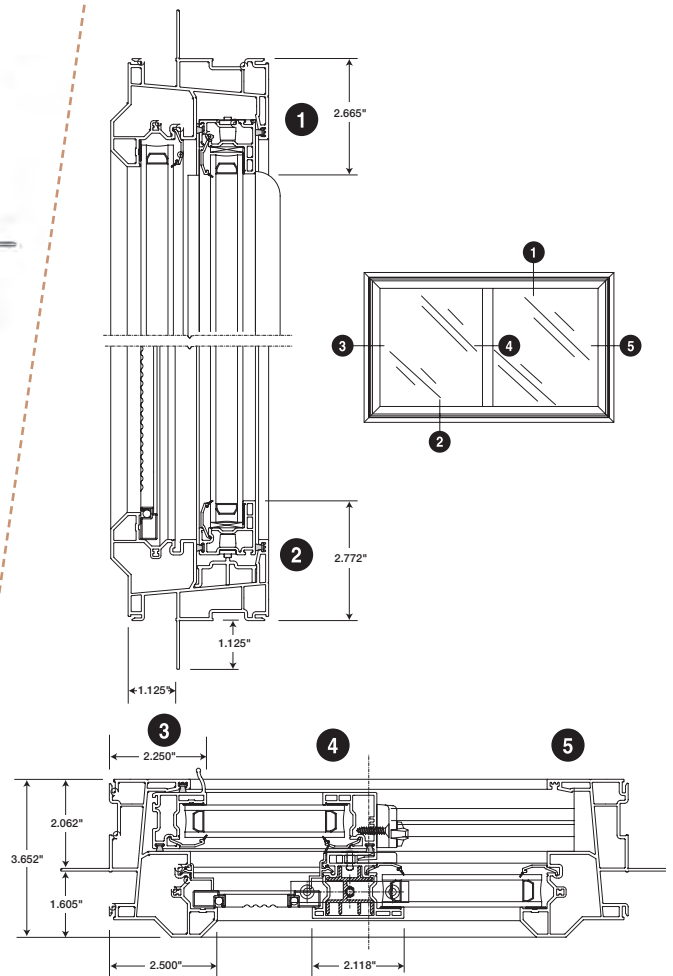
Double-Hung Window



Double Slider

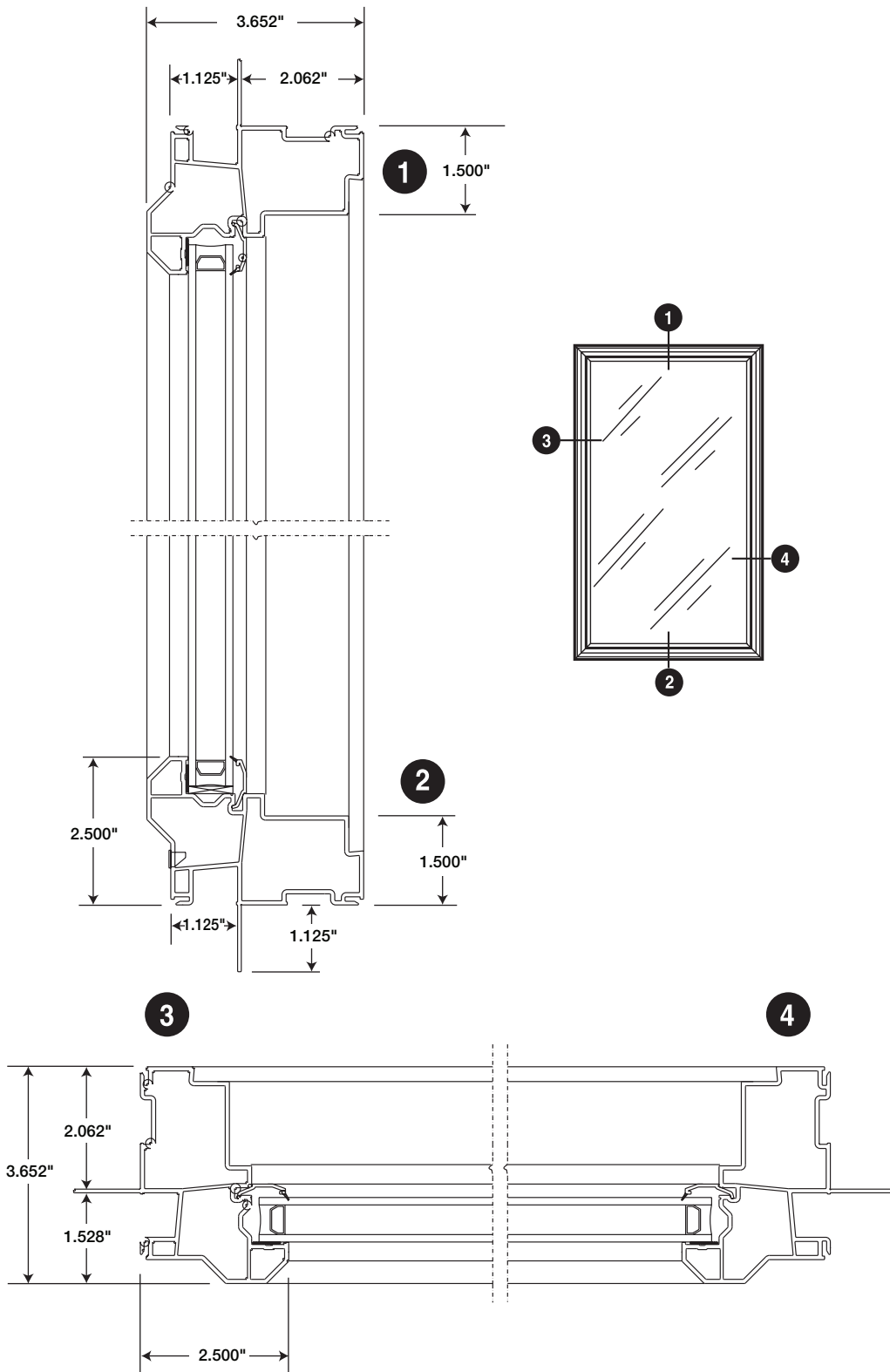


Single Slider

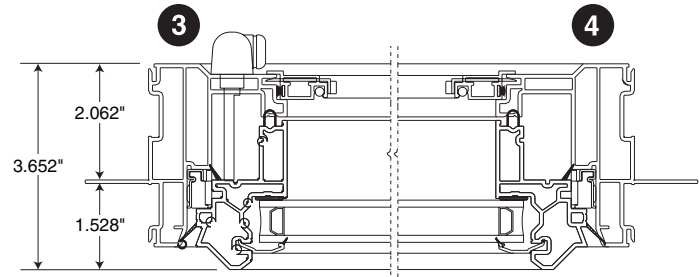
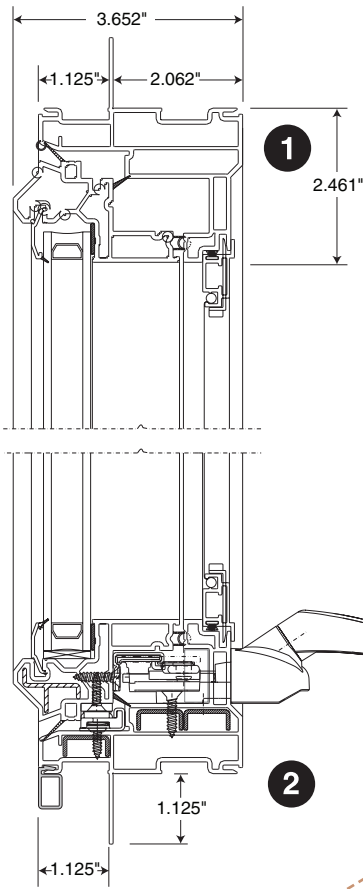


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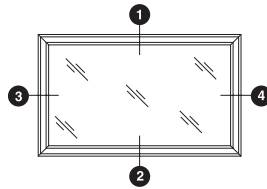
Picture Window/Transom



Casement

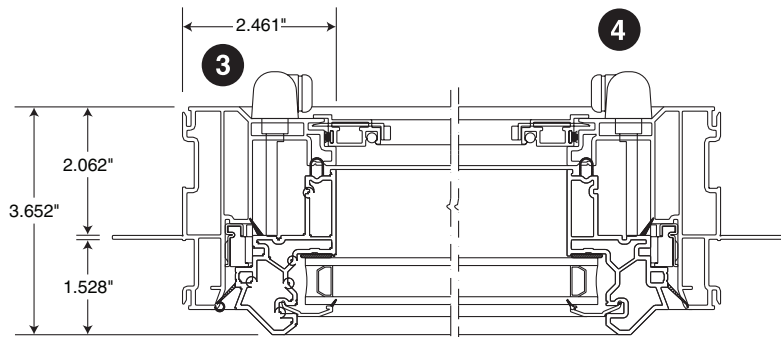
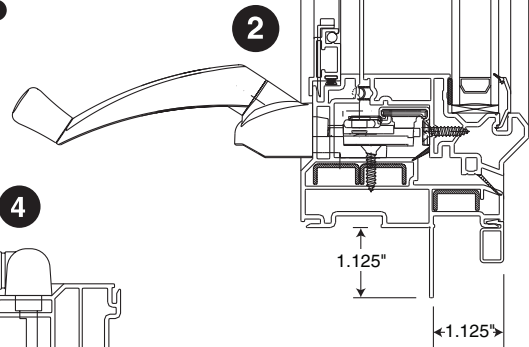
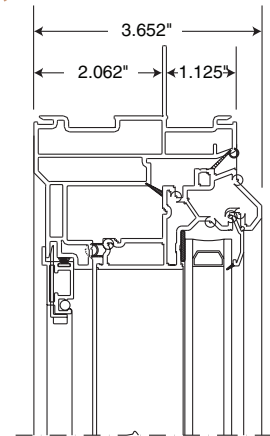
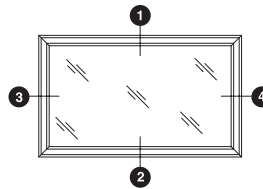


Multi-Point Lock



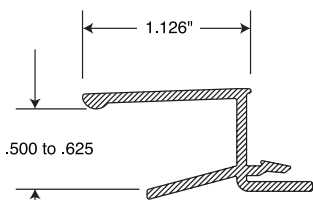
Add on J-Channel is shown (gray area).

Awning

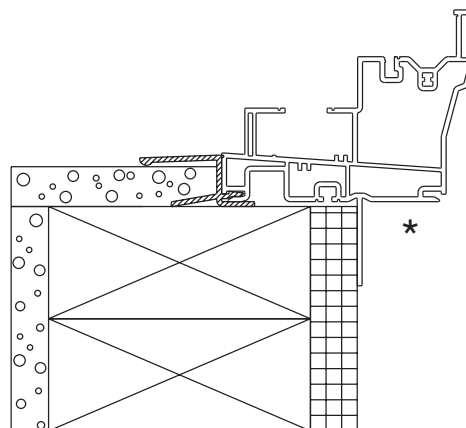


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Dry Wall Receptor

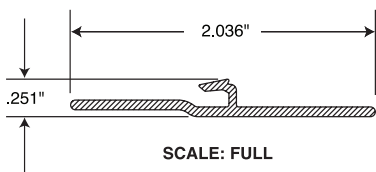


SCALE: FULL

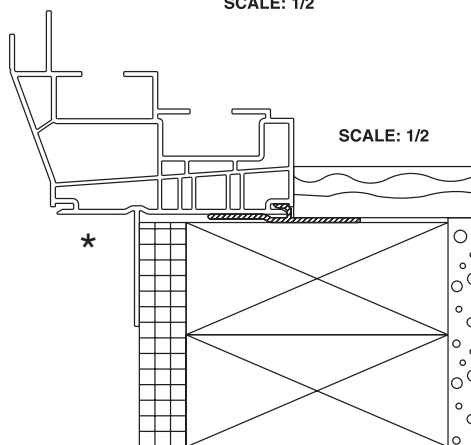


SCALE: 1/2

Dry Wall or Jamb Extension Guide

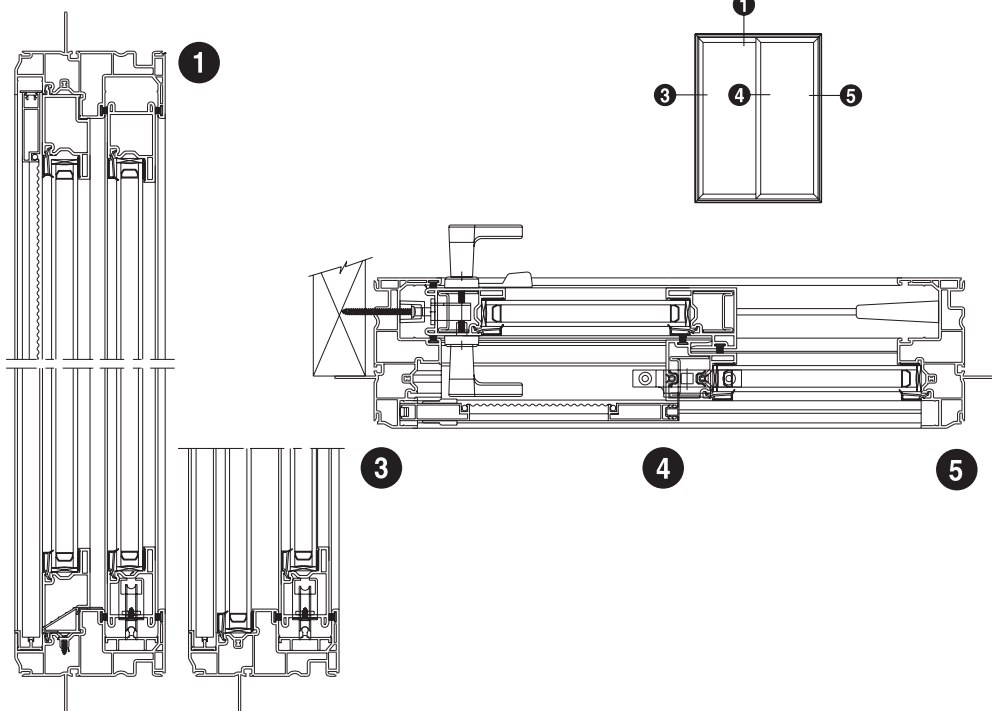


SCALE: FULL



SCALE: 1/2

Patio Door



* Generic profile for illustration purposes only.

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Alliance is not just our name. It also accurately describes our approach to doing business, and it's why we can provide such an exceptional warranty on every window we offer for your consideration. A proud, independent regional fabricator of excellent experience and reputation meticulously crafts each of our windows. By linking these carefully selected and exceptional fabricators into a national network, or alliance, we are able to be so confident of the quality that is designed and built into our windows that we can back our entire product line with an unsurpassed warranty.

Of course, other window companies may also say they offer a warranty, but we urge you to carefully read their fine print. They may, for example, guarantee the vinyl extrusion, but what about all the moving parts or the insulated glass? The Alliance Assurance Plus® Limited Lifetime Warranty covers it all – for life! Even more remarkable, if a factory defect needs repair within the first five years, we will even provide the labor required.

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