



FALCON

DOOR & WINDOW

Falcon Series



Vinyl Windows & Doors
For New Construction

The Falcon Series... Setting The Standard

Product Feature Guide

3/4" Insulated Glass	6100	XJC/A	2100	1100	C/A	Sash Frame	6100	XJC/A	2100	1100
Clear	S	S	S	S	S	Fusion welded corners	S	S	S	S
Emax Plus	0	0	0	0	0	Metal Reinforcement (38"+)	S	NA	S	S
Emax Ultra	0	0	0	0	0	Full Interlock	S	NA	S	S
Bronze Tint	0	0	0	0	0	Molded-in sash lift rail	S	NA	S	S
Grey Tint	0	0	0	0	0	Weatherstripping				
Obscure Glass	0	0	0	0	0	Double Weatherstripping	NA	NA	S	S
Tempered Glass	0	0	0	0	0	Triple Weatherstripping	S	S	NA	NA
Spacer System						Grilles				
Intercept	NA	NA	S	S	NA	Vintage Grilles (SDL)	0	0	0	0
SuperSpacer	S	S	S*	NA	S	Internal Flat 5/8"	0	0	0	0
Vinyl Colors						Internal Contour 5/8"	0	0	0	0
White	S	S	S	S	S	Hardware				
Tan	0	0	0	0	0	Cam lock and keeper (2 locks & keepers at 32" +)	S	NA	S	NA
Clay/White Exterior	NA	NA	0	NA	NA	Sweep lock	NA	NA	NA	S
Optional Exterior colors	0	0	0	0	0	Constant Force Balance	S	NA	S	NA
Main Frame						Block & Tackle Balance	NA	NA	NA	S
2 7/8" overall frame depth	NA	NA	NA	S	NA	Vent Stop	S	NA	S	NA
3" overall frame depth	NA	NA	S	NA	NA	Multi-Point Hardware	NA	S	NA	NA
3 1/4" overall frame depth	NA	NA	0	NA	S	* 2100 Double Hung / Single Glider only.				
4 9/16" wall thickness	S	S	NA	NA	NA					
Fusion welded corners	S	S	S	S	S					
Patented Integral J-Channel	S	S	S	S	S					
Pre-punched nailing fin	S	S	S	S	S					
Brickmould Exterior	S	NA	NA	S	NA					
Beveled Exterior	NA	NA	S	NA	S					



Falcon 1100 SH Series



Falcon 2100 SH Series



Falcon 2100 DH Series

for Vinyl New Construction Windows!

Other Window Style Features

Picture Window

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

Glider

- 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

Casement and Awning

- Heavy duty locks and operators provide long lasting security and ease of operation.
- Casement will open a full 90° for maximum ventilation and easy cleaning from inside your home. Egress units do not offer this feature.
- Heavy extrusion walls are thicker than most other windows providing better structural integrity.
- Heavy duty triple weatherstripping on frame and sash for protection against air and water infiltration
- Multi-point locking system locks casement at multiple points, for added security.
- Patented frame design assures water run-off.
- Optional egress hinge will allow for smaller windows to meet egress requirements.
- Corrosion resistant hardware assures years of trouble free performance.
- Available in a variety of window styles and geometric shapes.

C/A	Screen	6100	XJC/A	2100	1100	C/A
S	Extruded aluminum frame	O	O	O	O	O
NA	Aluminum screen mesh	O	O	O	O	O
NA	fiberglass screen mesh	S	S	S	S	S
NA	Half Screen (SH-SG only)	NA	NA	S	S	NA
NA	Full Screen (DH-DG only)	S	S	S	NA	S
Warranty †						
NA	Vinyl Lifetime	S	S	S	S	S
S	Glass 10 Years	S	S	S	S	S
O	Hardware 2 Years	S	S	S	S	S
O	Screen Frame Lifetime	S	S	S	S	S
O	Glass Breakage Warranty	O	O	O	O	O
O	Labor Agreement 1 Year	S	S	S	S	S
Window Styles						
NA	Double Hung (DH)	S	S	S	NA	NA
NA	Single Hung (SH)	NA	NA	S	S	NA
NA	Single Glider (SG)	NA	NA	S	S	NA
NA	Double Glider (DG)	S	NA	NA	NA	NA
NA	Picture Window (PW)	S	S	S	S	S
NA	Casement/Awning (C/A)	NA	S	NA	NA	S

S = Standard O = Optional NA = Not Available C/A = Casement/Awning
 † = Refer to actual warranty for details.



Falcon 6100 DH Series



Falcon CA/AW Series



Falcon XJ CA/AW Series

Falcon Series Standard Window Sizes

Single Hung: Series 1100 and 2100

Rough Opening *	20"	24"	28"	30"	32"	36"	40"	44"	48"
Unit Size	19 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"
36" 35 1/2"	SH2036	SH2436	SH2836	SH3036	SH3236	SH3636	SH4036	SH4436	SH4836
44" 43 1/2"	SH2044	SH2444	SH2844	SH3044	SH3244	SH3644	SH4044	SH4444	SH4844
48" 47 1/2"	SH2048	SH2448	SH2848	SH3048	SH3248	SH3648	SH4048	SH4448	SH4848
52" 51 1/2"	SH2052	SH2452	SH2852	SH3052	SH3252	SH3652	SH4052	SH4452	SH4852
60" 59 1/2"	SH2060	SH2460	SH2860	SH3060	SH3260	SH3660	SH4060	SH4460	SH4860
63" 62 1/2"	SH2063	SH2463	SH2863	SH3063	SH3263	SH3663	SH4063	SH4463	SH4863
66" 65 1/2"	SH2066	SH2466	SH2866	SH3066	SH3266	SH3666	SH4066	SH4466	SH4866
72"*** 71 1/2"	SH2072	SH2472	SH2872	SH3072	SH3272	SH3672	SH4072	SH4472	SH4872

■ Meets egress for SH 1100 only

Single Glider: Series 1100 and 2100

Rough Opening *	24"	36"	48"	52"	60"	72"	84"	96"
Unit Size	23 1/2"	35 1/2"	47 1/2"	51 1/2"	59 1/2"	71 1/2"	83 1/2"	95 1/2"
24" 23 1/2"	SG2424	SG3624	SG4824	SG5224	SG6024	SG7224	SG8424	SG9624
36" 35 1/2"	SG2436	SG3636	SG4836	SG5236	SG6036	SG7236	SG8436	SG9636
42" 41 1/2"	SG2442	SG3642	SG4842	SG5242	SG6042	SG7242	SG8442	SG9642
48" 47 1/2"	SG2448	SG3648	SG4848	SG5248	SG6048	SG7248	SG8448	SG9648
60" 59 1/2"	SG2460	SG3660	SG4860	SG5260	SG6060	SG7260	SG8460	SG9660

Glider Units 1100 or 2100:

XO is standard as viewed from outside.

OX is available as a special order.

X = Operable

O = Stationary

Falcon Series Options

Grilles:

Flat and Contour between the glass as well as Simulated Divided Lite (SDL) Vintage Grilles are available in all Falcon Series windows, both standard and custom sizes.

Glazing:

Glazing options include Emax®, Emax plus® and Emax ultra® high performance glass, including tinted, obscure glass and tempered glass.

Colors:

Falcon Series windows are available in White and Tan PVC with as well as optional exterior colors.

Screens:

Half screens (SH, SG) Full (DH, DG) with fiberglass mesh and color coordinated aluminum frames are standard. Aluminum mesh is an available option.

Mullions:

Falcon Series windows can be mullied in the factory or on-site using the appropriate fasteners. Call your distributor for details.

Callout Sizes:

Callout sizes are expressed in inches and equal rough opening.

* For multiple units, add the rough opening sizes together, do not allow for mullion.
(Example: twin 24x36 = 48x36 R.O.)

** Visible glass width of the upper fixed lite is equal to the visible glass width of the lower sash. Series SH 1100 and SH 2100 only.

The single hung and double hung is also available as oriel or cottage style.

Oriel style: 60% top sash, 40% bottom sash.

Cottage style: 40% top sash, 60% bottom sash.

Call for availability.

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



Falcon Series Standard Window Sizes

Double Hung: Series 2100 and 6100

Rough Opening *	20"	24"	28"	30"	32"	36"	40"	44"	48"
Unit Size	19 1/2"	23 1/2"	27 1/2"	29 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"
36" 35 1/2"									
	DH2436	DH2436	DH2836	DH3036	DH3236	DH3636	DH4036	DH4436	DH4836
44" 43 1/2"									
	DH2444	DH2444	DH2844	DH3044	DH3244	DH3644	DH4044	DH4444	DH4844
48" 47 1/2"									
	DH2448	DH2448	DH2848	DH3048	DH3248	DH3648	DH4048	DH4448	DH4848
52" 51 1/2"									
	DH2452	DH2452	DH2852	DH3052	DH3252	DH3652	DH4052	DH4452	DH4852
60" 59 1/2"									
	DH2460	DH2460	DH2860	DH3060	DH3260	DH3660	DH4060E	DH4460	DH4860
66" 65 1/2"									
	DH2466	DH2466	DH2866	DH3066	DH3266	DH3666E	DH4066	DH4466	DH4866
72" 71 1/2"									
	DH2472	DH2472	DH2872	DH3072	DH3272	DH3672	DH4072	DH4472	DH4872

The 3666 and 4060 window will not meet egress unless specified when ordering.
(Use egress designation 3666E or 4060E)

Falcon Series Options

Grilles:

Flat and Contour between the glass as well as Simulated Divided Lite (SDL) Vintage Grilles are available in all Falcon Series windows, both standard and custom sizes.

Glazing:

Glazing options include Emax®, Emax plus® and Emax ultra® high performance glass, including tinted, obscure glass and tempered glass.

Colors:

Falcon Series windows are available in White and Tan PVC with as well as optional exterior colors.

Screens:

Half screens (SH, SG) Full (DH, DG) with fiberglass mesh and color coordinated aluminum frames are standard. Aluminum mesh is an available option.

Mullions:

Falcon Series windows can be mullied in the factory or on-site using the appropriate fasteners. Call your distributor for details.

Callout Sizes:

Callout sizes are expressed in inches and equal rough opening.

* For multiple units, add the rough opening sizes together, do not allow for mullion.
(Example: twin 24x36 = 48x36 R.O.)

** Visible glass width of the upper fixed lite is equal to the visible glass width of the lower sash. Series SH 1100 and SH 2100 only.

The single hung and double hung is also available as oriel or cottage style.

Oriel style: 60% top sash, 40% bottom sash.
Cottage style: 40% top sash, 60% bottom sash.

Call for availability.

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

Double Glider: Series 6100

Rough Opening *	24"	36"	48"	52"	60"	72"	84"	96"
Unit Size	23 1/2"	35 1/2"	47 1/2"	51 1/2"	59 1/2"	71 1/2"	83 1/2"	95 1/2"
24" 23 1/2"								
	DG2424	DG3624	DG4824	DG5224	DG6024	DG7224	DG8424	DG9624
36" 35 1/2"								
	DG2436	DG3636	DG4836	DG5236	DG6036	DG7236	DG8436	DG9636
42" 41 1/2"								
	DG2442	DG3642	DG4842	DG5242	DG6042	DG7242	DG8442	DG9642
48" 47 1/2"								
	DG2448	DG3648	DG4848	DG5248	DG6048	DG7248	DG8448	DG9648
60" 59 1/2"								
	DG2460	DG3660	DG4860	DG5260	DG6060	DG7260	DG8460	DG9660

Glider Units 1100 or 2100:

XO is standard as viewed from outside.

OX is available as a special order.

X = Operable

O = Stationary



Falcon Series Standard Window Sizes

Picture Window: Series 1100, 2100 and 6100

Rough Opening *	12	12 1/2"	20"	24"	28"	30"	32"	36"	40"	44"	48"	52"	60"	66"	72"
Unit Size	11 1/2"	12"	19 1/2"	23 1/2"	27 1/2"	31 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"	51 1/2"	59 1/2"	65 1/2"	71 1/2"
36"															
44"															
48"															
52"															
60"															
63"															
66"															
72"															

NOTE: 1100 & 6100 series have a minimum width of 12 1/2" R.O.

■ (T) Any Picture window 132 total U.I. and larger or exceeds 72" in any direction requires tempered glass.

Falcon Series Options

Grilles:

Flat and Contour between the glass as well as Simulated Divided Lite (SDL) Vintage Grilles are available in all Falcon Series windows, both standard and custom sizes.

Glazing:

Glazing options include Emax®, Emax plus® and Emax ultra® high performance glass, including tinted, obscure glass and tempered glass.

Colors:

Falcon Series windows are available in White and Tan PVC with as well as optional exterior colors.

Mullions:

Falcon Series windows can be mullied in the factory or on-site using the appropriate fasteners. Call your distributor for details.

Callout Sizes:

Callout sizes are expressed in inches and equal rough opening.

- * For multiple units, add the rough opening sizes together, do not allow for mullion.
(Example: twin 24x36 = 48x36 R.O.)
- ** Visible glass width of the upper fixed lite is equal to the visible glass width of the lower sash. Series SH 1100 and SH 2100 only.



Falcon Series Standard Window Sizes

Picture Window: Casement / Awning Standard and XJ Series

Rough Op.*	12 1/2"	18"	20"	24"	28"	28 1/2"	30"	32"	36"	40"	44"	48"	52"	60"	66"	72"
Unit Size	12"	17 1/2"	19 1/2"	23 1/2"	27 1/2"	28"	29 1/2"	31 1/2"	35 1/2"	39 1/2"	43 1/2"	47 1/2"	51 1/2"	59 1/2"	65 1/2"	71 1/2"
36"																
44"																
48"																
52"																
60"																
66"																
72"																

NOTE: XJ series have a minimum width of 12 1/2" R.O.

(T) Any Picture window 132 total U.I. and larger or exceeds 72" in any direction requires tempered glass.

Awning: Standard and XJ Series

R.O.*	24"	28"	28 1/2"	32"	30"	36"	40"	48"
Unit Size	23 1/2"	27 1/2"	28"	31 1/2"	29 1/2"	35 1/2"	39 1/2"	47 1/2"
18"								
20"								
24"								
28"								
36"								

Call out sizes are expressed in inches and equal rough opening.

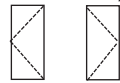
* For multiple units, add rough opening sizes together, do not allow for mullion.
(Example: twin 24x36 = 48x36 R.O.)

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

† Requires egress hardware (Standard on unit)

Egress sizes will differ between single and multiple units. Call to verify egress sizes on all operable twin, triple and other multiple casement sizes.

Casement Vent Layout



L.H. R.H.

Specify left hinge or right hinge casement as viewed from outside

Casement: Standard and XJ Series

R.O.*	18"	20"	24"	28"	28 1/2"	30"	32"	36"
Unit Size	17 1/2"	19 1/2"	23 1/2"	27 1/2"	27"	29 1/2"	31 1/2"	35 1/2"
24"								
36"								
42"								
48"								
52"								
60"								
66"								
72"								

Emax High Performance Glass System

A Better Choice...

Warm Edge Technology

Today more than ever, homeowners are replacing their old worn out windows with energy efficient replacement windows. Poorly insulated windows can attribute up to 25 percent of a building's heating and cooling loads. As a homeowner, it is just as important to know what type of glass package (or glazing) is going into the window. The type of spacer material in your windows can make or break your investment.

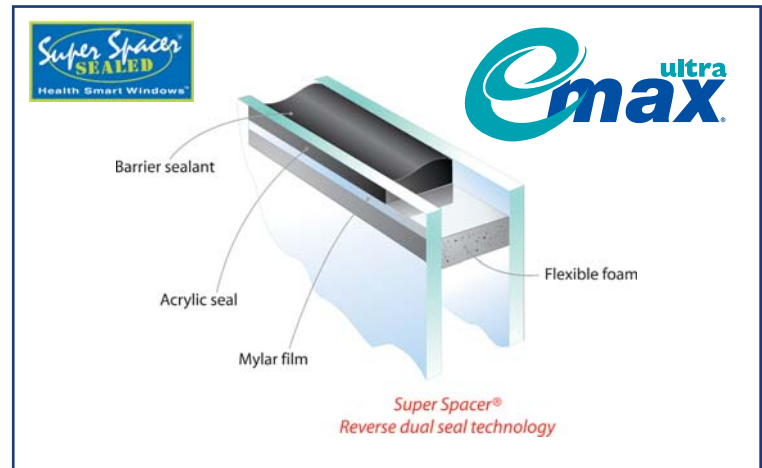
In order to overcome the thermal inefficiency of conventional aluminum spacers, a new type of spacer product called warm edge technology has evolved in the industry. Warm edge refers to the type of spacer material used to separate the panes of glass (or glazing) in an insulated window unit. If the material conducts less heat or cold than a conventional aluminum spacer at the edge of the glass, it is said to be "warm-edge." Most of these newer spacers are less conductive and outperform pure aluminum. But there's still one small problem - **they all contain some kind of metal. And metal is highly conductive.** With Super Spacer your windows will remain thermally-efficient and condensation-free for many years to come.

Condensation occurs first around the window's edge - where the glass insulates least effectively and where surface temperatures are the coldest. If a standard "cold edge" spacer exists and outside temperatures fall to 0°F condensation will form on the glass edge even in homes with as little as 15% relative humidity. The solution to condensation formation on glass is to increase the thermal efficiency of the edge of the glass: the window's weak link. Substitute Super Spacer a superior warm edge spacer and the inside humidity can go substantially higher before condensation forms on the glass. The problem is virtually eliminated.

Emax Ultra® High Performance Glass System

For maximum energy efficiency, savings and comfort, Falcon offers optional Emax Ultra glass on all Falcon series window lines. Emax Ultra® utilizes SuperSpacer® and a specially formulated invisible coating that is bonded to the interior surface of the insulating glass unit. This coating actually blocks long wave (heat) radiation by reflecting it back to its source. This specially formulated coating is coupled with an inert gas that provides additional insulating value to help slow down the transfer of heat from the outside in the summer or inside in the winter.

What does this mean to you? Energy savings. In the summer, the sun is high in the sky. Visible light from the sun strikes the earth and is converted to long wave heat radiation. Your home can actually absorb this heat radiation, even though the sun is not shining directly through the windows. Emax glass reflects this unwanted heat back outside, helping to reduce the load on your air conditioner, and also reduce your energy costs.



Conversely, in the winter, the sun is low in the sky. Visible sunlight passes easily through the Emax glass and is converted to long wave heat radiation inside your home. As these heat waves move toward the outside, they strike the Emax glass, and are reflected back inside your home, keeping your home warmer, reducing your heating costs.

The Emax coating blocks not only long wave radiation, but also effectively blocks ultraviolet radiation that can damage fabrics and carpets. Emax Ultra High Performance Glass System does all this, while still letting in plenty of natural unobscured daylight.

A Clear Choice

By combining warm edge technology (SuperSpacer®) with Emax Plus High Performance Glass, your windows are able to resist moisture from condensation. And less moisture means less potential for mold and mildew around your windows. These advances in glass technology and spacer systems offer you a clearer view to your world.

A better insulating value (R-value/U-value) is realized when using Emax®, Emax Plus® or Emax Ultra®.

* All Falcon doors and windows with Emax plus are ENERGY STAR compliant in all regions of the United States.



Grille Options



Flat 5/8"



Contour 5/8"



* Vintage Grille®

* Aluminum grille between Vintage grilles are not available in certain models

Color Options

SOLID PVC



Tan



White

A variety of optional exterior colors are available.

Glass

- Clear
- Emax®
- Emax Plus®
- Emax Ultra®
- Tinted
- Tempered
- Obscure

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