

SERIES 700

Vinyl Windows



**DOUBLE HUNG,
SLIDER &
PICTURE WINDOWS**



Columbia

Windows & Doors

FULLY WELDED VINYL WINDOW SYSTEM

This traditional window configuration provides two operating sashes with weight-regulated balances. This assures smooth operation and enhanced ventilation. It also allows for easy and safe outside-glass cleaning from inside the home. Available in Standard and Oriel formats. Muntins, where chosen, are mounted within the nominal 7/8" insulated glass to facilitate glass cleaning.

APPLICABLE STANDARDS:

(3'0" x 5'0" window tested)

- **GRADE:** Grade 40 (ASTM D4099)
- **FORCED ENTRY RESISTANCE:** passed
- **AIR INFILTRATION:** .13 cu.ft./min./ft.C @ 25 mph
- **WATER ENTRY:** no water @ 6.0 psf
- **STRUCTURAL:** passed 90.0 psf - 190 mph (no reinforcing)



Series 770
Tilt Double Hung



Series 780
Horizontal Sliders

Featuring two operational sashes that easily lift out for quick glass cleaning, these windows are available in two- or three-lite configurations. Corrosion-resistant brass wheels and stainless steel axles ensure years of smooth, quiet operation.

APPLICABLE STANDARDS:

(6'0" x 4'0" window tested)

- **GRADE:** Grade 30 (ASTM D4099)
- **FORCED ENTRY RESISTANCE:** passed
- **AIR INFILTRATION:** .07 cu.ft./min./ft.C @ 25 mph
- **WATER ENTRY:** no water @ 7.5 psf
- **STRUCTURAL:** passed 45.0 psf - 134 mph (no reinforcing)

D - 770 STANDARD SIZES

Standard Window Size	Rough Opening		Actual Size		Full Screen		Half Screen	
	Width	Height	Width	Height	Width	Height	Width	Height
2026	24	30	23-1/2	29-1/2	18-3/8	25	18-15/16	12-3/4
2030		36		35-1/2		31		15-3/4
2038		44		43-1/2		39		19-3/4
2040		48		47-1/2		43		21-3/4
2044		52		51-1/2		47		23-3/4
2050		60		59-1/2		55		27-3/4
2056		66		65-1/2		61		30-3/4
2060		72		71-1/2		67		33-3/4
2426	28	30	27-1/2	29-1/2	22-3/8	25	22-15/16	12-3/4
2430		36		35-1/2		31		15-3/4
2438		44		43-1/2		39		19-3/4
2440		48		47-1/2		43		21-3/4
2444		52		51-1/2		47		23-3/4
2450		60		59-1/2		55		27-3/4
2456		66		65-1/2		61		30-3/4
2460		72		71-1/2		67		33-3/4
2826	32	30	31-1/2	29-1/2	26-3/8	25	26-15/16	12-3/4
2830		36		35-1/2		31		15-3/4
2838		44		43-1/2		39		19-3/4
2840		48		47-1/2		43		21-3/4
2844		52		51-1/2		47		23-3/4
2850		60		59-1/2		55		27-3/4
2856		66		65-1/2		61		30-3/4
2860		72		71-1/2		67		33-3/4
3026	36	30	35-1/2	29-1/2	30-3/8	25	30-15/16	12-3/4
3030		36		35-1/2		31		15-3/4
3038		44		43-1/2		39		19-3/4
3040		48		47-1/2		43		21-3/4
3044		52		51-1/2		47		23-3/4
3050		60		59-1/2		55		27-3/4
3056		66		65-1/2		61		30-3/4
3060		72		71-1/2		67		33-3/4
3426	40	30	39-1/2	29-1/2	34-3/8	25	34-15/16	12-3/4
3430		36		35-1/2		31		15-3/4
3438		44		43-1/2		39		19-3/4
3440		48		47-1/2		43		21-3/4
3444		52		51-1/2		47		23-3/4
3450		60		59-1/2		55		27-3/4
3456		66		65-1/2		61		30-3/4
3460		72		71-1/2		67		33-3/4
3826	44	30	43-1/2	29-1/2	38-3/8	25	38-15/16	12-3/4
3830		36		35-1/2		31		15-3/4
3838		44		43-1/2		39		19-3/4
3840		48		47-1/2		43		21-3/4
3844		52		51-1/2		47		23-3/4
3850		60		59-1/2		55		27-3/4
3856		66		65-1/2		61		30-3/4
3860		72		71-1/2		67		33-3/4

- **Durable**
- **Easy to Maintain**
- **Energy Efficient**

Series 700 Vinyl Windows

C - 1400 END VENTS STANDARD SIZES

Standard Window Size	Rough Opening Single Unit		Actual Size Single Unit		Screen Size	
	Width	Height	Width	Height	Width	Height
6020	72	24	71-1/2	23-1/2	16-1/6	19-1/2
6030		36		35-1/2		31-1/2
6040		48		47-1/2		43-1/2
6050		60		59-1/2		55-1/2
7020	84	24	83-1/2	23-1/2	19-1/6	19-1/2
7030		36		35-1/2		31-1/2
7040		48		47-1/2		43-1/2
7050		60		59-1/2		55-1/2
8020	96	24	95-1/2	23-1/2	22-1/6	19-1/2
8030		36		35-1/2		31-1/2
8040		48		47-1/2		43-1/2
8050		60		59-1/2		55-1/2
9020	108	24	107-1/2	23-1/2	25-1/6	19-1/2
9030		36		35-1/2		31-1/2
9040		48		47-1/2		43-1/2
9050		60		59-1/2		55-1/2

D - 780 2-LITE STANDARD SIZES

Standard Window Size	Rough Opening		Actual Size		Full Screen		Half Screen	
	Width	Height	Width	Height	Width	Height	Width	Height
2020	24	24	23-1/2	23-1/2	18-1/2	19-3/16	9-5/8	19-3/16
2030		36		35-1/2		31-3/16		31-3/16
2040		48		47-1/2		43-3/16		43-3/16
2050		60		59-1/2		55-3/16		55-3/16
3020	36	24	35-1/2	23-1/2	30-1/2	19-3/16	15-5/8	19-3/16
3030		36		35-1/2		31-3/16		31-3/16
3040		48		47-1/2		43-3/16		43-3/16
3050		60		59-1/2		55-3/16		55-3/16
4020	48	24	47-1/2	23-1/2	42-1/2	19-3/16	21-5/8	19-3/16
4030		36		35-1/2		31-3/16		31-3/16
4040		48		47-1/2		43-3/16		43-3/16
4050		60		59-1/2		55-3/16		55-3/16
5020	60	24	59-1/2	23-1/2	54-1/2	19-3/16	27-5/8	19-3/16
5030		36		35-1/2		31-3/16		31-3/16
5040		48		47-1/2		43-3/16		43-3/16
5050		60		59-1/2		55-3/16		55-3/16
6020	72	24	71-1/2	23-1/2	66-1/2	19-3/16	33-5/8	19-3/16
6030		36		35-1/2		31-3/16		31-3/16
6040		48		47-1/2		43-3/16		43-3/16
6050		60		59-1/2		55-3/16		55-3/16

C-1510 Picture Windows & Shapes



Series 1510 Picture Windows and decorative shapes offer great design flexibility along with the benefits of fusion welded frames. These units work equally well when matched and mulled with other Series 700 products, or as stand-alone units. Custom configurations are readily available.

APPLICABLE STANDARDS:

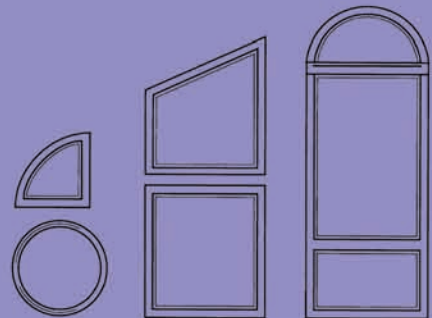
- **STRUCTURAL:** Grade 45

C - 1510 STANDARD SIZES

Standard Window Size	Rough Opening Single Unit		Actual Size Single Unit	
	Width	Height	Width	Height
2020	24	24	23-1/2	23-1/2
2030		36		35-1/2
2040		48		47-1/2
2050		60		59-1/2
3020	36	24	35-1/2	23-1/2
3030		36		35-1/2
3040		48		47-1/2
3050		60		59-1/2
4020	48	24	47-1/2	23-1/2
4030		36		35-1/2
4040		48		47-1/2
4050		60		59-1/2
5020	60	24	59-1/2	23-1/2
5030		36		35-1/2
5040		48		47-1/2
5050		60		59-1/2
6020	72	24	71-1/2	23-1/2
6030		36		35-1/2
2668*	32-3/4	80-3/4	32-1/4	80-1/4
3068*	38-3/4	80-3/4	38-1/4	80-1/4
4068*	50-3/4	80-3/4	50-1/4	80-1/4

*Tempered Glass

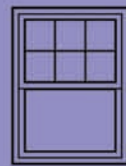
Architectural Shapes



Configurations



Prairie



Traditional



Colonial



Victorian

FEATURES of a Series 700 Window

2. 3-3/4" framing with 3-1/4" offset easily fits into most new construction applications.

3. Stepped jamb gives weather-stripped sash 3/4" overlap for optimum weather protection.

4. Beveled tubular screen pocket adds beauty, facilitates installation and caulking. (not shown)

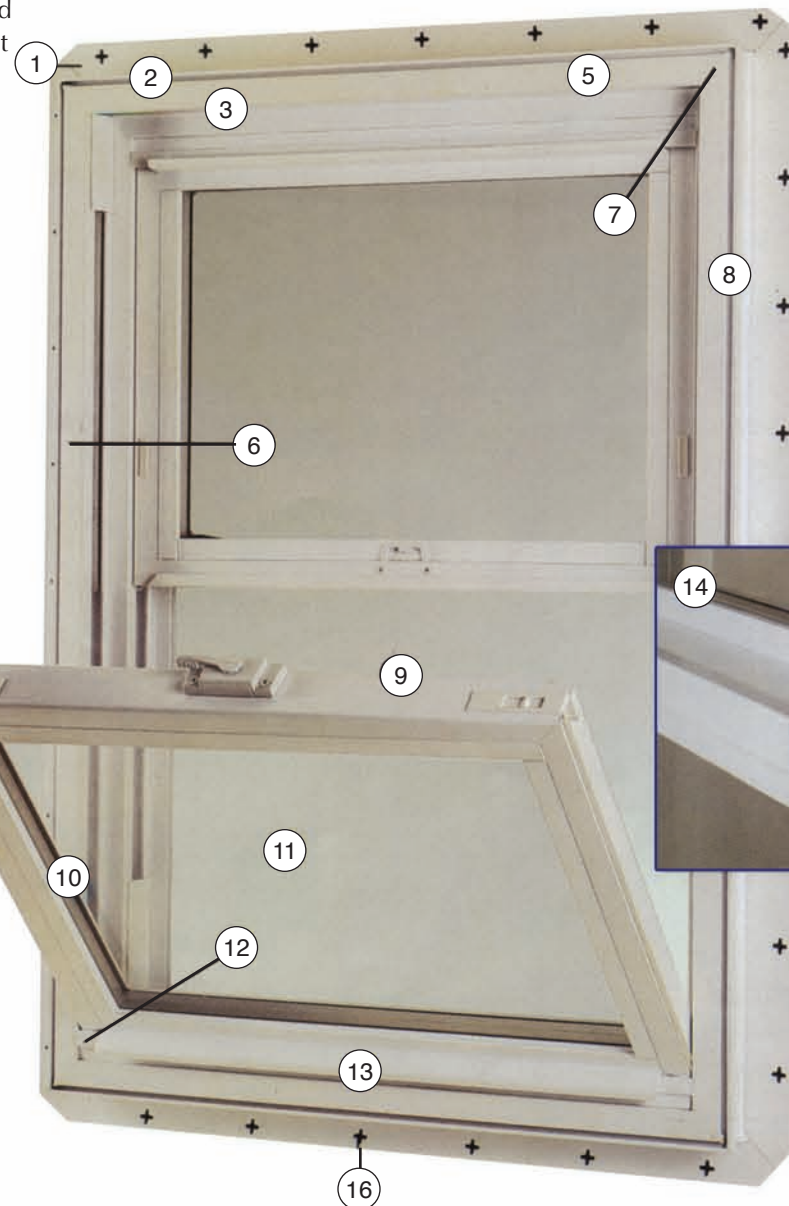
1. Integral pre-punched 1-1/4" nailer fins for fast installation also prevent air and water leakage; easy multiple-unit mulling and stacking.

6. Decorator-preferred colors are integral throughout the vinyl; never needs painting, hides scratches and comes clean with a damp cloth.

10. Snap-in inside bead glazing for easy glass installation or replacement.

11. Nominal 7/8" insulating energy-efficient glass. Low-E Glass option is available.

12. Unique pocket sill for strength, reduced sight lines and added security.



5. Impact-, corrosion- and weather-resistant vinyl construction.

7. Fusion welded frame and sash corners for added strength and clean looks.

8. Multi-chambered construction provides strength and insulation.

9. Double hung windows tilt in for easy cleaning from inside the home. Horizontal sliders feature an easily removable sash.

14. Weatherstripped interlock to assure a tight seal.

13. Continuous sash handle for ease of operation.

16. Cross-notch nailer holes assure easy, square installation.

15. Covered weep holes in sill control rain-water drainage. (not shown)

Specifications

Scope: Furnish and install all windows of the type and size shown on the drawings and called for in the specification including all necessary hardware, anchors, and trim where noted.

General: Windows shall be Fiberlux Series 700. Double hung windows shall meet or exceed ASTM D4099 grade 40. Horizontal sliding windows shall meet or exceed ASTM D4099 grade 30.

Material: All frame and sash members shall be manufactured of extruded, high-impact-resistant, UV-stabilized, rigid virgin polyvinyl chloride (PVC), with nominal .070" masterframe and .065" sash members. Frame members shall be of multi-chambered design. Sill shall contain an internal weepage system for efficient water drainage to the exterior. All exposed weatherstripping, hardware and fasteners shall be stainless steel, aluminum, nylon or other suitable material compatible with rigid PVC. Horizontal sliding windows will contain a drop-in PVC track for convenient cleaning and maintenance. Frame members shall have pre-punched integral 1-1/4" nailer fins.

Construction: All masterframe and sash members shall be miter-cut and fusion-welded. Double-hung sash units shall be the tilt-type and the horizontal sliding windows shall be the removable-type. Both shall incorporate fin-type weatherstripping inserted into designed grooves and have continuous contact with frame members when in a closed position.

Glazing: Nominal 7/8" insulating glass shall be double-pane and hermetically sealed meeting ASTM C1036 and ASTM E774 level C or higher standards. The sash shall be inside-bead glazed with foam tape on the exterior glazing leg.

Hardware: Operating sashes shall have an interlocking rail to provide engagement with each other when fully closed. A meeting rail cam lock and keeper will be provided to lock the window in a closed position. Double hung operating sash shall be equipped with counterbalancing mechanisms to hold the sash stationary in any open position meeting AAMA 902.2.

Balances shall be easily replaceable in the field with the use of hand tools. Horizontal sliding operating sash shall be equipped with brass wheels and stainless steel axles contained in a nylon housing. They shall be field-adjusted and easily replaced with use of normal hand tools. The horizontal sliding frame shall be equipped with removable weather barriers at the top and bottom of the sash interlocks.

Finish: All window members shall have an integral white color throughout the profile. (Optional almond color is available.)

Insect Screens: All operating vents shall be designed to receive screens. Screen frames to be extruded aluminum with baked enamel color to be compatible with PVC frames. 18 x 16 fiberglass cloth meeting ASTM D3656 shall be secured to the frame using a vinyl spline. Screens shall be retained by the integral beveled tubular PVC track. Insect screens are not for the purpose of providing security or providing for retention of objects or persons from the interior.

Erection and Caulking: (by others) All units shall be adequately and securely fastened plumb, level and square without distortion, twisting, bowing or springing of frame members. All frame members shall be properly caulked using a good grade of non-hardening caulking that is compatible with PVC and the surface to which it is mounted to provide a thoroughly water-tight seal meeting AAMA 808.3. The masterframe is to be installed square with the operating sash. The sash should be operated and the masterframe should be given any necessary final adjustment to insure proper operation and weather tightness.

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