



Effingham County Board  
101 N. 4<sup>th</sup> Street, Suite 301, Effingham, IL  
217.342.4990

## ACTIONS OF THE EFFINGHAM COUNTY BOARD

24-96

At the Effingham County Board regular board meeting of May 20, 2024, the following action was taken:

Approve Board Recommended Bid Award to Superior Window Company  
For County Building Replacement Windows  
Without Committee Recommendation

Motion made by Tim Ellis, seconded by Norbert Soltwedel

Roll call vote taken with voting as follows: 7 Aye, 0 Nay, 0 Abstain.  
Motion carried/not carried.

ATTEST:

Michelle Kollmann  
Effingham County Clerk

Joshua Douthit  
Chairman Effingham County Board

## LETTER OF TRANSMITTAL

TO:

Angie Thompson, Board Administrator

Effingham County Board Office

Window Project

101 North Fourth Street, Suite 301

Effingham, IL, 62401

George Proksha Jr dba Superior Window Company

P: 618-533-6349 F: 618-533-5719

Email: georgejr@superiorwindowsandsiding.com

REFERENCE: Window Project


DATE: May 1, 2024

The following proposal is being Submitted by Superior Window Company located in Centralia Illinois. Superior is a full service home improvement company with 36 years of experience replacing residential and commercial windows, doors and exterior siding.

Sincerely,



Signature



Date

Enclosures: Proposal, Specifications, Insurance, References, Terms and Conditions

## PROPOSAL

Superior Window Company to provide and install (96) Columbia 3000 series replacement windows in the Effingham County Building. The windows are bronze aluminum inside and out, are double hung in style, have 7/8" double insulated glass with Low E tint/Argon gas filling, full aluminum screens, no internal grids or obscure glass. Superior to remove all of the existing aluminum capping and windows from the (96) openings to prep the area for the new windows. The existing openings will require 1/2" x 3 1/4" x 70" strips of wood to be placed on both sides of the new windows inside of the current wood frames. All existing openings currently have a 3' wide by 1' deep by 6" tall void that will require R-13 fiberglass insulation to fill said void to eliminate air infiltration from under/around the new window units. Once the openings are prepped according to the previous steps mentioned above, the windows are to be installed in the openings, fastened with screws, and insulated around the perimeter with fiberglass insulation. Superior to then custom bend matching bronze aluminum to cap all (96) exterior frames. All exterior capping will be sealed to the brick and to the window using Solar Seal #900 Terpolymer Elastomer sealant.

All exterior capping and window work will be done using a motorized lift on the east and south side of the building and scaffolding on the north side from the first story rooftop. Superior will follow OSHA guidelines having a harness and lanyard attached to all workers on the lift and scaffolding. Hard hats, safety vests and steel-toed boots to be worn by all workers doing window work. All walkways will be cordoned off to protect the public from being able to walk into the work areas.

Superior to use the existing bronze aluminum trim currently in place on the new replacement window ensuring no damage to the interior of the building.

Superior to clean up the work areas daily and haul away all work-related debris from the jobsite.

Price of **\$196,421.00** includes all material, labor, equipment, disposal.

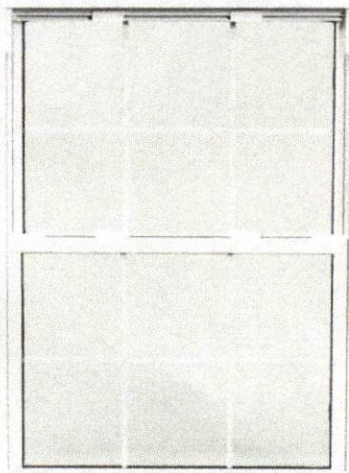
12-16 weeks to manufacture the windows.

3-5 weeks for installation depending on the availability to work in each area during work hours. Superior is available to work on the weekends to help not disrupt everyday work in the building.

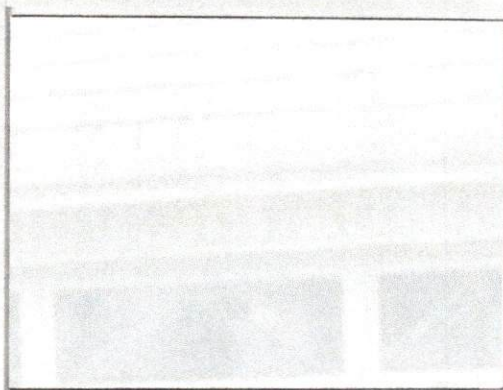
# Columbia

## ARCTIC MASTER

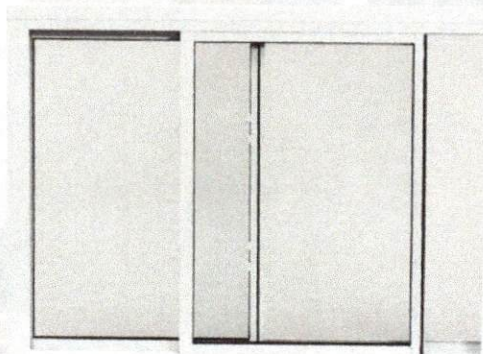
*for Rehab & New Construction*



C-3000 Double Hung



C-3200 Picture Window



C-3100 Horizontal Slider (Rolling)

*The Columbia Arctic Master Series Thermal Break is the all-purpose window for new construction and rehab for both commercial and residential. Columbia has the industry's finest constructed, most attractive and versatile window in the market place.*

### SPECIAL FEATURES:

*Thermal break minimizes heat flow and condensation on frame.*

*Thermal barrier yields big savings in fuel and air conditioning costs.*

*Glazed with 7/8" insulated glass dual or triple glazed.*

*Optional divided lites provided by dust-free muntin bars sealed between insulated glass.*

*Greatly reduces noise transfer.*

*Meets AAMA 1504-83 thermal performance standards.*

*Heavy duty cam lock tightens the sash meeting rail, sealing out air as it locks the window.*

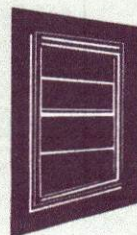
*Full 3-1/4" thick frame depth.*

*Horizontal & vertical mullion system.*

*Heavy-duty tubular extruded screen frame.*

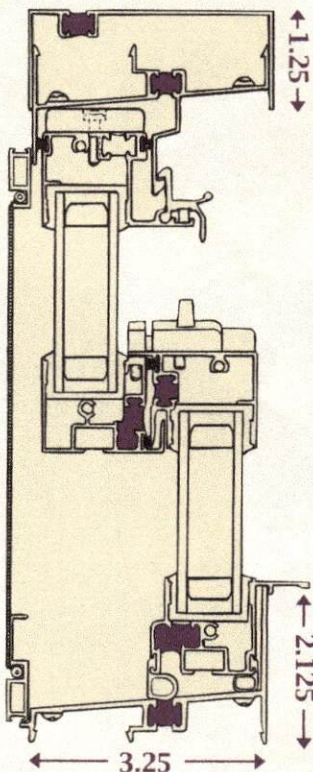
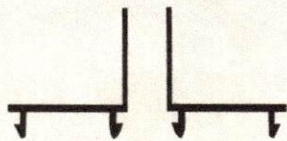
*Continuous nailing fin for new construction windows.*

*High-performance poly bond fin seal weatherstripping.*



**Columbia**  
Windows & Doors

Nail fin for new construction.  
Reverses for retro fit.

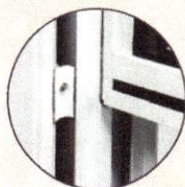


**SIDE VIEW**

Maintenance free  
painted finish

Upper sash lock

Easy access  
security latch  
at meeting rails

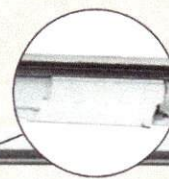


Constant force  
tape balance

Full interlock at  
meeting rails

7/8" insulated  
glass panels

Full-length lift  
rails on sash  
panels



Head expander

Tilting panels  
for easy cleaning

Finger latches  
to release sash  
panels

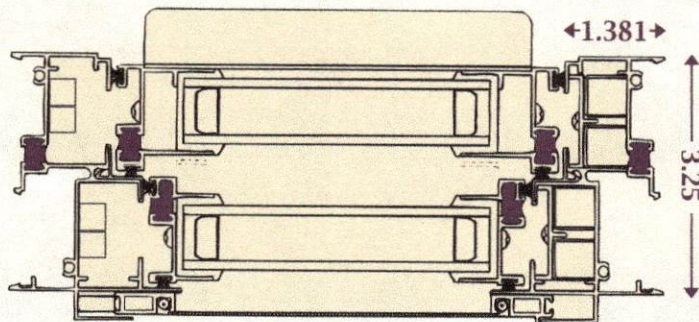
Jamb adjustment  
devices for  
accurate installation

Double Fin Seal  
weatherstripping  
around operating  
panel area

Rugged extruded  
aluminum framing

Sill angle  
expander

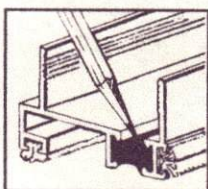
*C-3000.  
Double Hung*



**TOP VIEW**

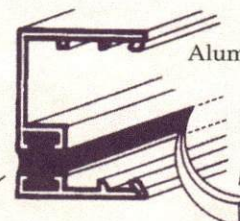
*How our thermal break works --*

There is NO direct metal connection inside and outside of window.



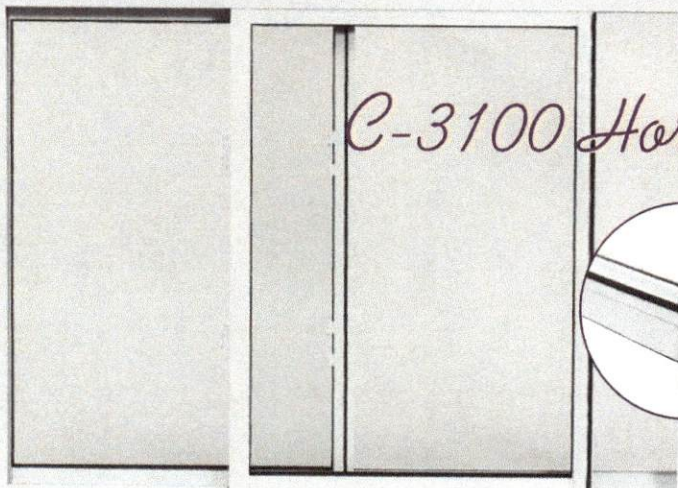
A polyurethane barrier, in the frame  
and sash, virtually eliminates heat  
loss and condensation buildup on  
the interior frame.

Channel is filled with strong  
high-density plastic (polyurethane)

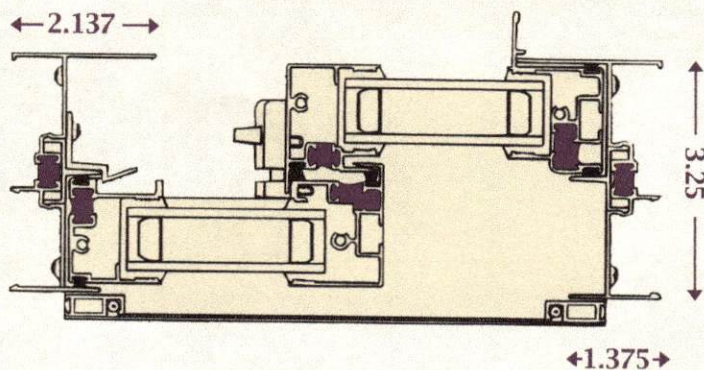


Aluminum wall is  
cut away.

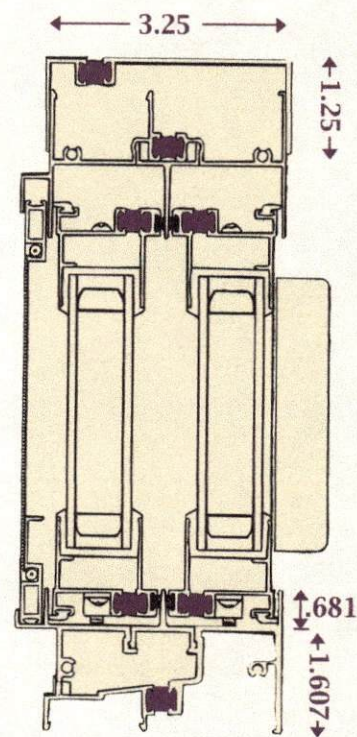
## C-3100 Horizontal Slider (Rolling)



Four adjustable rollers on each sash provide ease of operation. Rollers are rust-free bronze to assure years of service.



TOP VIEW



SIDE VIEW

### Mullion

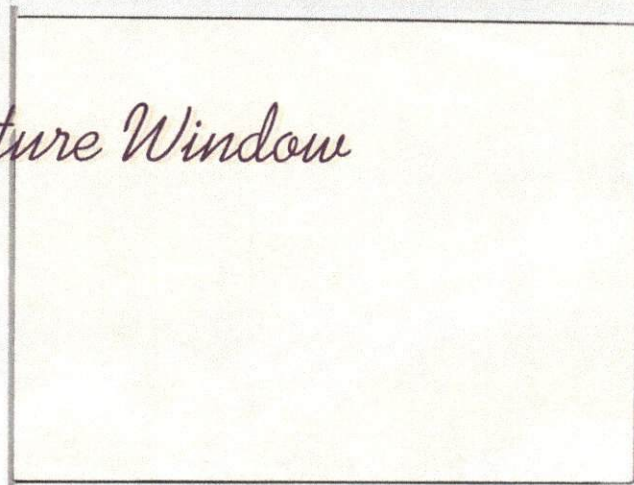
Thermal Break



The Artic Master series is complimented with a mullion system that allows side-by-side mulling & vertical mulling (stacking).

## C-3200 Picture Window

(Fixed Lite)  
May also be used as a transom over an operating window.



ALL ARE AVAILABLE IN WHITE OR BRONZE PAINTED FINISH.



**Columbia**  
Windows & Doors

## Specifications

**GENERAL:** The Columbia Arctic Master C-3000 Double Hung-Tilt (DH-C40), C-3100 Horizontal Slider (Rolling) (HS-C40) and C-3200 Picture Window (F-HC40) shall comply and bear the quality certification label in accordance with ANSI/AAMA Certification Program (101-85).

**MATERIAL:** Frame and sash shall be integral thermal-break insulated aluminum of 6063-T5 alloy. Sill wall thickness shall be .078" thick.

**FINISH:** Windows to be finished in bronze or white electrostatically applied enamel finish.

**CONSTRUCTION:** All joints of frame and sash members shall be neatly fitted, securely connected and permanently watertight. Thermal break shall separate the interior from the exterior. The operating sash shall interlock at meeting rail and sash shall not be removable in closed and locked position.

### WEATHERSTRIPPING:

Weatherstripping shall be silicon treated, fungus, mildew and moth resistant high-performance poly bond fin seal with a permanent poly fin in the middle of the poly pile to minimize air infiltration. The poly pile weatherstripping shall use a poly bond backing to insure against shrinkage.

**HARDWARE:** Window shall be factory equipped with a sweep-type, cam-action lock that tightens the meeting rail as it locks the window.

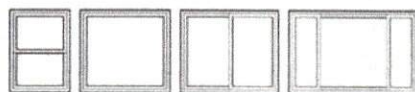
**SCREENS:** Half screens or full screens may be furnished with Arctic Master series. Screen frames are of hollow type extruded aluminum and shall be securely fastened at corners. Screen cloth shall be 18 x 16 mesh fiberglass. Aluminum wire available at an extra cost.

**INSTALLATION:** All window frames shall be set in accordance with the manufacturer's recommendations without springing, forcing or distorting. Head and sill shall be aligned parallel and square with jambs. A non-hardening sealant compatible with aluminum shall be provided by the window erector, and applied in sufficient quantity to provide a watertight seal between window and surrounding construction. Manufacturer assumes no liability for damage by the trades or final cleaning of aluminum.

**GLAZING:** All windows shall be glazed with clear 7/8" dual insulated glass, set in wrap-around vinyl (marine glazing). Also available with bronze-tinted glass, low E, triple glazing and muntin bars between the glass at an extra cost. The insulated glass shall be manufactured under the trade name "thermo cell" and shall meet or exceed ASTM E 773-83 and ASTM E 774-84A Class A.

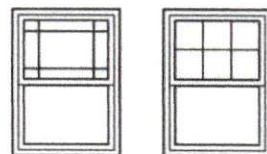
**GUARANTEE:** The windows and components as represented on these pages are unconditionally guaranteed against defective material or workmanship for one year provided that the installation is in accordance with the manufacturer's specifications and instructions.

## Configurations



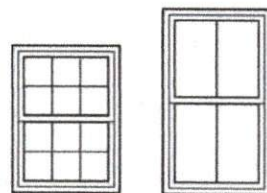
Double Hung, Picture Window, Slider (Rolling) Window, Slider (Rolling) Picture Window -- End Vents

## Grid Patterns



Prairie

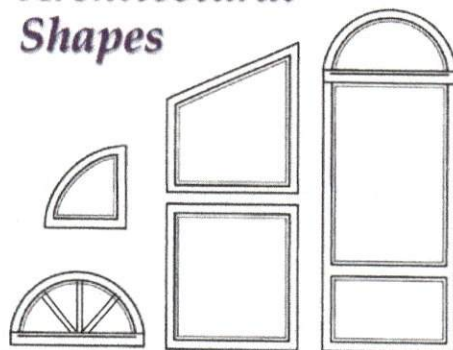
Traditional



Colonial

Victorian

## Architectural Shapes



Your imagination isn't limited by the four corners of the window frame -- not with all the available options and accessories such as circle tops, trapezoids & 1/4 circles.

Lindsborg, KS  
(785) 227-3087 • 1-800-255-0174

Iola, KS  
(620) 365-3166 • 1-800-362-0503

Pawnee, OK  
(918) 762-3001 • 1-800-722-4144



# Columbia

Windows & Doors

1600 North Jackson  
Kansas City, Missouri 64120

816-241-5800

Toll Free 1-800-892-8703

**Distributed By:**

**COLUMBIA GLASS AND WINDOW COMPANY**

**Limited Warranty - Aluminum Windows**

This is to certify that Columbia Aluminum Windows are warranted to be free from defects in workmanship and material for a period of ten years from date of installation.

For a period of ten years from date of manufacture: Columbia Glass warrants peeling or chipping of painted finish on frame not to occur.

For a period of ten years from date of manufacture: Columbia Glass warrants material obstruction of vision resulting from film formation between the interior glass of the insulated unit not to occur.

Columbia Glass warranty is valid provided that: (1) windows have received reasonable and necessary maintenance; (2) the windows have not been abused or tampered with; (3) the insulated glass unit must not have been subjected to stress resulting from localized application of heat leading to excessive temperature differentials over the glass surface or edges; (4) the glass has not been cracked or broken.

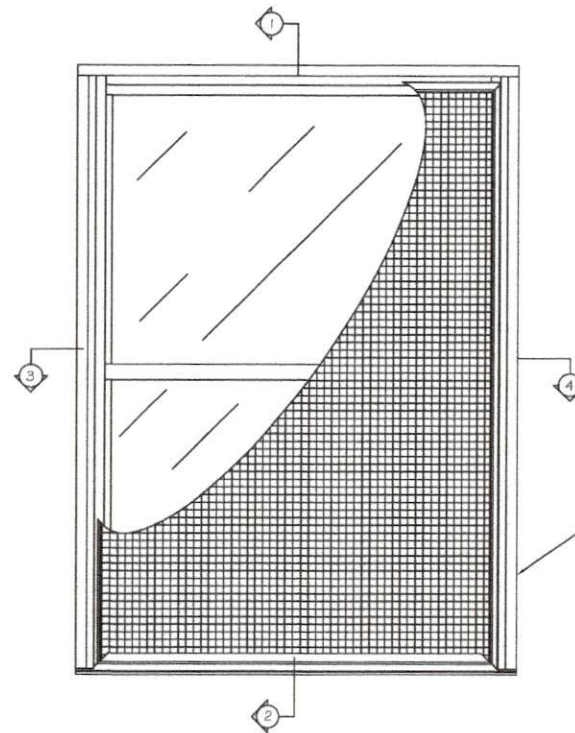
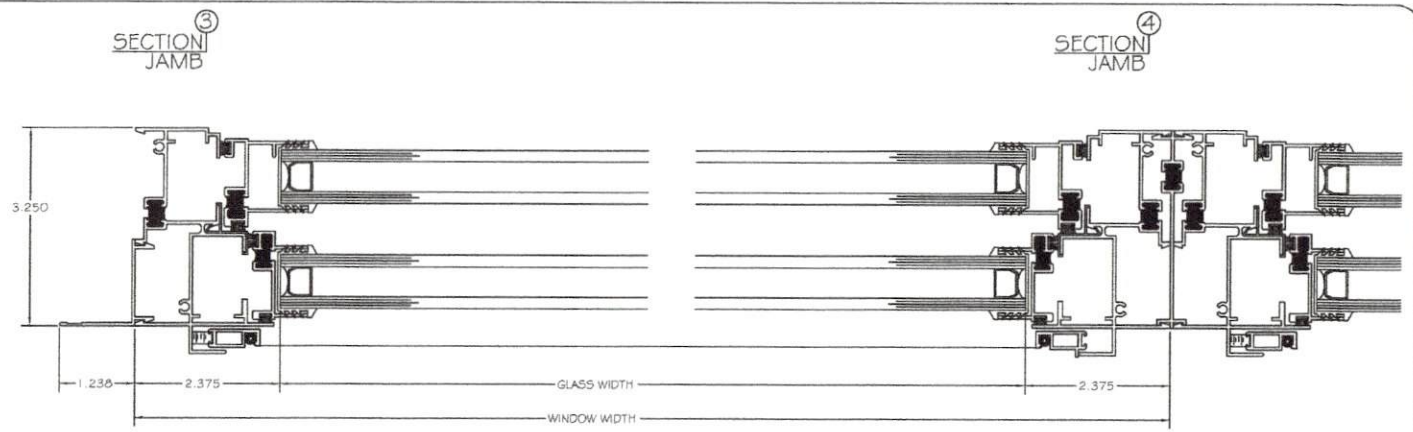
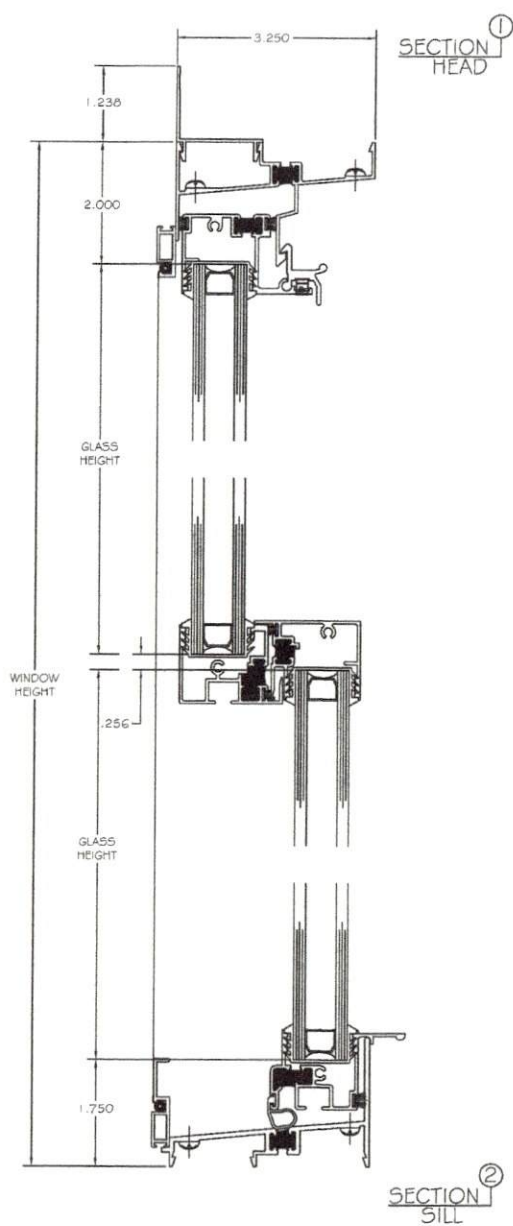
Columbia Glass warranty covers materials and labor. Columbia Glass is not liable for natural weathering of exterior finishes or for corrosion in highly corrosive environments. Columbia Glass is not liable for incidental or consequential damage. Factory warranty does not cover the breakage of glass or screen for any reason.

This warranty extends only to the person(s) identified as owner(s) and is in lieu of all other express warranties. Any implied warranties are limited in duration to the respective time period set forth above.

Consequential damage, loss or injury due to any defect in materials and workmanship is excluded from this warranty.

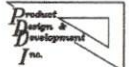
Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion may not apply to you.

Within 30 days of receipt of written notice Columbia Glass will contact owner(s) to arrange for inspection. Columbia Glass will repair or replace, for one year from date of installation of the window, any part determined to be defective. Provided defect is reported to Columbia Glass within 60 days of the time the defect was discovered by the warrantee.



EXTERIOR ELEVATION

MODIFY SCALE X 5 FOR  
ACTUAL SIZE OF WINDOW

COLUMBIA GLASS			
 Phone No: 717-741-4644 Fax No: 717-741-4625 E-mail: pdd@braznet.net	Designed:	KL	Date: 2-24-06
	Checked By:		Date:
	Scale:	FULL	Rev:
	Part Name:	ASSEMBLY	
	Project Title:	DOUBLE HUNG TILT	
	Project No:	3425-A-03	Series: C-3000

**NOTICE OF PRODUCT CERTIFICATION**

CERTIFICATION NO: NI006401-R7  
DATE: 01/31/2006  
CERTIFICATION PROGRAM: Structural  
COMPANY: Columbia  
CODE: 790-1  
REVISION DATE: 05/21/2019

To verify that the "Notice of Product Certification" is valid, please visit [www.NAMICertification.com](http://www.NAMICertification.com) to assure that the product is active and currently listed. This certification represents product conformity to the applicable specification and that certification criteria has been satisfied. A NAMI approved certification label must be applied to the product to claim certification status. Please review and advise NAMI if any corrections are required to this document.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Columbia Metal Products Company Riverside Park Iola, KS 66749	Series "C-3000" Aluminum Double Hung Window Configuration: XX Glazing: Insulating Glass (Annealed)  Frame: W - 1346mm(53") H - 965mm(38") Panel: W - 1270mm(50") H - 965mm(38")

SPECIFICATION	PRODUCT RATING
ANSI/AAMA/NWDA 101/I.S.2-97	H-C40

Product Tested By: Patzig Testing Laboratories  
Report No: 384-0184.3 Rev  
Expiration Date: May 31, 2021

Administrator's Signature: \_\_\_\_\_

A handwritten signature in dark ink, appearing to be "Shi" or similar, written over a horizontal line.

**NATIONAL ACCREDITATION AND  
MANAGEMENT INSTITUTE, INC.**

4794 George Washington Memorial Highway  
Hayes, VA 23072  
Tel: (804) 684-5124  
Fax: (804) 684-5122

# NFRC Product Certification Authorization Report


**Manufacturer:** Columbia Glass & Window

**Product Series:** C3000 Aluminum Double Hung

**Simulation Lab:** SNCT

**Initial Cert. Date:** 01/12/2008

**Street:** 1600 North Jackson

**Product Type:** VSDH

**Sim. Report #:** NCTL-110-19191-1

**Re-Certification Date:** 06/29/2017

**City/State/Zip:** Kansas City, MO 64120

**Air Leakage:** ≤ 0.3

**Sim. Report Date:** 10/20/2016

**Revised Date:** 01/01/1970

**Print Date:** 06/29/2017

**Test Date:** 04/25/2017

**Expiration Date:** 04/25/2022

CPD Number: CGW-M-10

IA: National Accreditation And Management Institute

Status	Product Num.	Manufacturer Code	Frame/ Glaze	Glaz Lys	Lo-E (Surface)	Gap Width(s)	Spacer	Gap Fill	Grids	Dividers	Unit	U-Factor	SHGC	VT	Cond. Res.
	00020-00001	3 mm Clear/AIR/3 mm Clear	AU/AU	2		0.639	P1-S	Fill 1: AIR(100)	N		CL	0.59	0.62	0.64	37
	00020-00002	3 mm Clear/AIR/3 mm Clear	AU/AU	2		0.639	P1-S	Fill 1: AIR(100)	G	0.75	CL	0.59	0.55	0.57	37
➔	00021-00001	3 mm Comfort Select 36?/ARG/3 mm Clear	AU/AU	2	0.027(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.42	0.29	0.52	39
	00021-00002	3 mm Comfort Select 36?/ARG/3 mm Clear	AU/AU	2	0.027(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.42	0.26	0.46	39
	00022-00001	3 mm Comfort Select 36?/ARG/3 mm Comfort Select 73	AU/AU	2	0.027(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.42	0.28	0.47	39
	00022-00002	3 mm Comfort Select 36?/ARG/3 mm Comfort Select 73	AU/AU	2	0.027(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.42	0.25	0.42	39
	00023-00001	3 mm ClimaGuard 70/36 LE/ARG/3 mm Clear	AU/AU	2	0.036(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.43	0.31	0.55	39
	00023-00002	3 mm ClimaGuard 70/36 LE/ARG/3 mm Clear	AU/AU	2	0.036(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.43	0.28	0.49	39
	00024-00001	3 mm ClimaGuard 70/36 LE/ARG/3 mm Comfort Select 73	AU/AU	2	0.036(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.42	0.30	0.50	39
	00024-00002	3 mm ClimaGuard 70/36 LE/ARG/3 mm Comfort Select 73	AU/AU	2	0.036(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.42	0.27	0.44	39
	00025-00001	3 mm Comfort Select 73/ARG/3 mm Comfort Select 73	AU/AU	2	0.148(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.44	0.49	0.53	39
	00025-00002	3 mm Comfort Select 73/ARG/3 mm Comfort Select 73	AU/AU	2	0.148(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.44	0.44	0.47	39
	00026-00001	3 mm LoE? 272 /ARG/3 mm Clear	AU/AU	2	0.042(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.43	0.33	0.56	39
	00026-00002	3 mm LoE? 272 /ARG/3 mm Clear	AU/AU	2	0.042(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.43	0.30	0.50	39
	00027-00001	3 mm LoE? 272 /ARG/3 mm Comfort Select 73	AU/AU	2	0.042(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.43	0.32	0.51	39
	00027-00002	3 mm LoE? 272 /ARG/3 mm Comfort Select 73	AU/AU	2	0.042(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.43	0.29	0.45	39
	00028-00001	3 mm LoE? 366/ARG/3 mm Clear	AU/AU	2	0.022(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.42	0.22	0.51	39
	00028-00002	3 mm LoE? 366/ARG/3 mm Clear	AU/AU	2	0.022(2)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	G	0.75	CL	0.42	0.20	0.45	39
	00029-00001	3 mm LoE? 366/ARG/3 mm Comfort Select 73	AU/AU	2	0.022(2), 0.148(3)	0.639	P1-S	Fill 1: ARG/AIR(90/10)	N		CL	0.42	0.21	0.46	39

# SOLAR SEAL® #900

## TERPOLYMER ELASTOMER / ADHESIVE SEALANT

High performance colored alternative to silicones & urethanes



### COMMERCIAL

### INDUSTRIAL

### HIGH END RESIDENTIAL

#### DESCRIPTION

SOLAR SEAL® #900 is based on terpolymer technology which offers a quality alternative to silicone and urethane sealants.

High performance terpolymer elastomers provides exceptional weather resistance, adhesion, elongation and color fade resistance to SOLAR SEAL® #900.

#### APPLICATIONS

Aluminum	Metal Buildings
Architectural Metals	Precast Panels
Asphalt Shingles	PVC Trim Boards
Brick & Masonry	Roof Flashing
Cedar & Redwood (primed)	Rubber Roofing
Copper	Skylights
Cured Concrete	Sun Rooms
EPDM/TPO	Termination Bars
EIFS Systems	Tile Roofing
Fiber Cement Board	Vinyl Siding & Windows
Glass & Fiber Glass	Wood
Kynar Coatings	+More Building Materials

#### COLORS

White, Black, Clear and over 200 NPC standard colors plus customs.

- Mfg. Name & Color stamped on each plunger.
- Custom colors available, 4 case min.

#### LIMITATIONS

- ⇒ Intended for exterior use. Interior application requires mandatory forced fresh air ventilation until odor dissipates.
- ⇒ Not recommended for:
  - Structural applications.
  - Contact with expanded polystyrene.
  - Joints under constant water submersion.
- ⇒ COMBUSTIBLE
  - Do not use near heat or flame.
- ⇒ Contact NPC for written approval for use in food processing areas.
- ⇒ Due to the porosity of cedar, redwood and hardboard, use on these substrates may reduce expected life.
- ⇒ Be aware that cedar is known to expel air as temperatures rise causing bubbles in freshly laid uncured sealants. Test all sealants on cedar, especially rough cut areas.
- ⇒ WARNING: This product contains chemicals known to the state of California to cause cancer and/or reproductive harm. Inform chemical sensitive persons this compound contains a petroleum solvent.

#### INSTALLATION

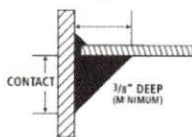
Apply 3/8" deep, (like diagram below) to a temperate, clean, dry, frost free, structurally sound surface that is free of oils, soaps, silicone, or loose material that may inhibit bonding. Clean excess sealant with a solvent such as xylene, mineral spirits or by scraping.

- Do not tool inside corner joints.
- Backer rod or bond breaker tape is required on control joints (butt joints) to prevent three point adhesion. Tool these control joints.
- Back caulk butt joints.
- Do not apply when substrate temperature is above 125°F.

Prior to application, obtaining the building owners approval of the sealant color is the applicator's responsibility.

#### JOINT DESIGN PARAMETERS

Maximum joint width is 3/4"  
Maximum sealant depth is 1/2"  
Minimum sealant depth is 3/8"



#### PROPER INSIDE CORNER CURED BEAD

Consumer size -Approx. coverage, 14 Lin. ft./tube  
Pro Size -Approx. coverage, 26 Lin. ft./tube

#### GENERAL INFORMATION

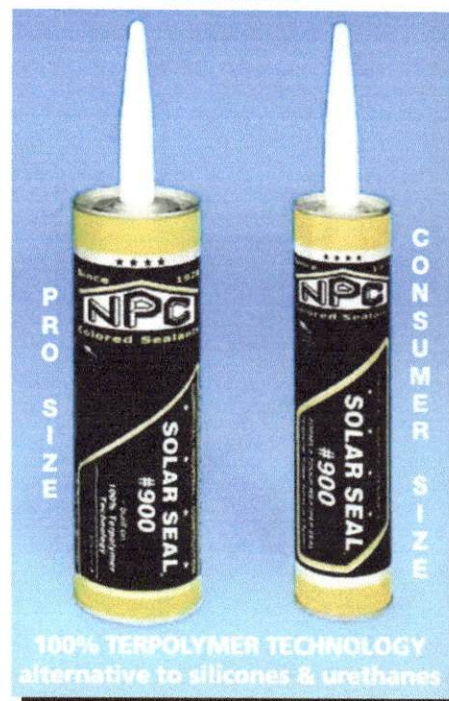
Shelf life: 2 Years @ 75°F  
Substrate application range: 0°F to 125°F  
Cured sealant temp. range: -40°F to 300°F  
Cure rate @ 75°F: Thin skin: 24 hrs.  
Complete cure: 21 days

- Warm tubes in cool weather
- Primerless adhesion
- Paintable after skin forms
- Mold and mildew resistant
- Stainable with solid color stains

#### PERFORMANCE DATA

BOND COHESION	TT-S-230c	NO BOND LOSS
SHORE A HARDNESS	TT-S-230c	30 AVERAGE
STAIN INDEX	TT-S-230c	NONE
SAG	TT-S-230c	NO SAG
UV & COLD EXPOSURE	ASTM-C 920	NO CRACKING
ELONGATION	ASTM-D 412	300%-400%
TACK FREE TIME	ASTM-C-679	4 hours
ADHESION-IN-PEEL	TT-S-1543	30 lbs/in

## SPECIFICATION DATA



#### PACKAGING

Consumer size tubes (10.3 oz), 12 per case  
Pro Size tubes (19 oz), 9 per case  
5 gallon pails - 55 gallon steel drums

#### VOC Regulations

Pro Size tubes are approved under all Federal and State VOC regulations.

Consumer size tubes are approved under Federal VOC regulations and in all state VOC regulations except for California. Clear SOLAR SEAL® is approved in California.

- NO PCBs USED OR ADDED

#### CONSTRUCTION STANDARDS

Meets performance requirements of TT-S-00230c, Class A, Type II and ASTM C-920, Type S, Grade NS, Class 25, Use NT, except for weight loss. Follow ASTM C-1193.

#### LIMITED WARRANTY

NPC warrants Solar Seal® #900 will meet the performance data tests listed below, when judged according to the test methods listed below. Apply per ASTM C-1193. For best results on inside corner joints the user must follow our installation instructions and "Proper Cured Bead" diagram. For other joint designs the user must test the suitability prior to full application for his intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. No other warranties implied or expressed shall apply, including any warranty or fitness for a particular purpose. NPC shall not be liable under any legal theory for special or consequential damage. Expected life: 20+ years on inside corner joints when installed as directed above.



American  
Manufactured  
and Owned

02/13



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

02/06/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Dimond Bros. Insurance, LLC 201 S. Locust  Centralia IL 62801		<b>CONTACT NAME:</b> Grinnell Care Center <b>PHONE (A/C, No, Ext):</b> (618) 532-5626 <b>E-MAIL ADDRESS:</b> <b>FAX (A/C, No):</b> (618) 532-1531
		<b>INSURER(S) AFFORDING COVERAGE</b> <b>INSURER A:</b> Grinnell Mutual Reinsurance Co <b>INSURER B:</b> <b>INSURER C:</b> <b>INSURER D:</b> <b>INSURER E:</b> <b>INSURER F:</b>
		<b>NAIC #</b> 14117

**COVERAGES** **CERTIFICATE NUMBER:** CL242647402 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD / WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR		0000676608	02/01/2024	02/01/2025	EACH OCCURRENCE \$ 1,000,000
						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
						MED EXP (Any one person) \$ 5,000
						PERSONAL & ADV INJURY \$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:					GENERAL AGGREGATE \$ 2,000,000
						PRODUCTS - COMP/OP AGG \$ 2,000,000
						Empl Practices Liab Ins \$ 100,000
A	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		0000676607	02/01/2024	02/01/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
						BODILY INJURY (Per person) \$
						BODILY INJURY (Per accident) \$
						PROPERTY DAMAGE (Per accident) \$
						\$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE \$
						AGGREGATE \$
						\$
A	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> Y N/A	0000676609	02/01/2024	02/01/2025	PER STATUTE OTH-ER
						E.L. EACH ACCIDENT \$ 1,000,000
						E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
						E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

**CERTIFICATE HOLDER****CANCELLATION**

Marion County Housing Authority  
719 E Howard

Centralia

IL 62801

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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## REFERENCES

Langenfeld Hotel Properties

Chris Daniels 618-532-4400

104 W Broadway, Centralia, IL

Work: 60 vinyl double hungs in a 3 story brick hotel – pics included

The Citadel Building

Charles Yacob 847-489-5100

504 Tower Square, Marion, IL

Work: 110 vinyl double hungs in a 5 story brick building – pics included

Wayne County Courthouse

Donna Ensley, County Clerk 618-842-5182

301 E Court, Fairfield, IL

Work: 136 vinyl double hungs in a 3 story brick County Courthouse – pics included

# Google Maps 104 W Broadway

Centralia, Illinois

Google Street View

Sep 2023 See more dates



Image capture: Sep 2023 © 2024 Google

# Google Maps 101 N Chestnut St

Centralia, Illinois

Google Street View

Nov 2022

See more dates



Image capture: Nov 2022 © 2024 Google

# Google Maps W Main St

Marion, Illinois

Google Street View

Sep 2023 See more dates



Image capture: Sep 2023 © 2024 Google



# Google Maps 301 Court St

Fairfield, Illinois

Google Street View

Sep 2023



Image capture: Sep 2023 © 2024 Google

# Google Maps 159 NE 4th St

Fairfield, Illinois

Google Street View

Sep 2023



Image capture: Sep 2023 © 2024 Google

# Google Maps 304 Main St

Fairfield, Illinois

Google Street View

Sep 2023

See more dates

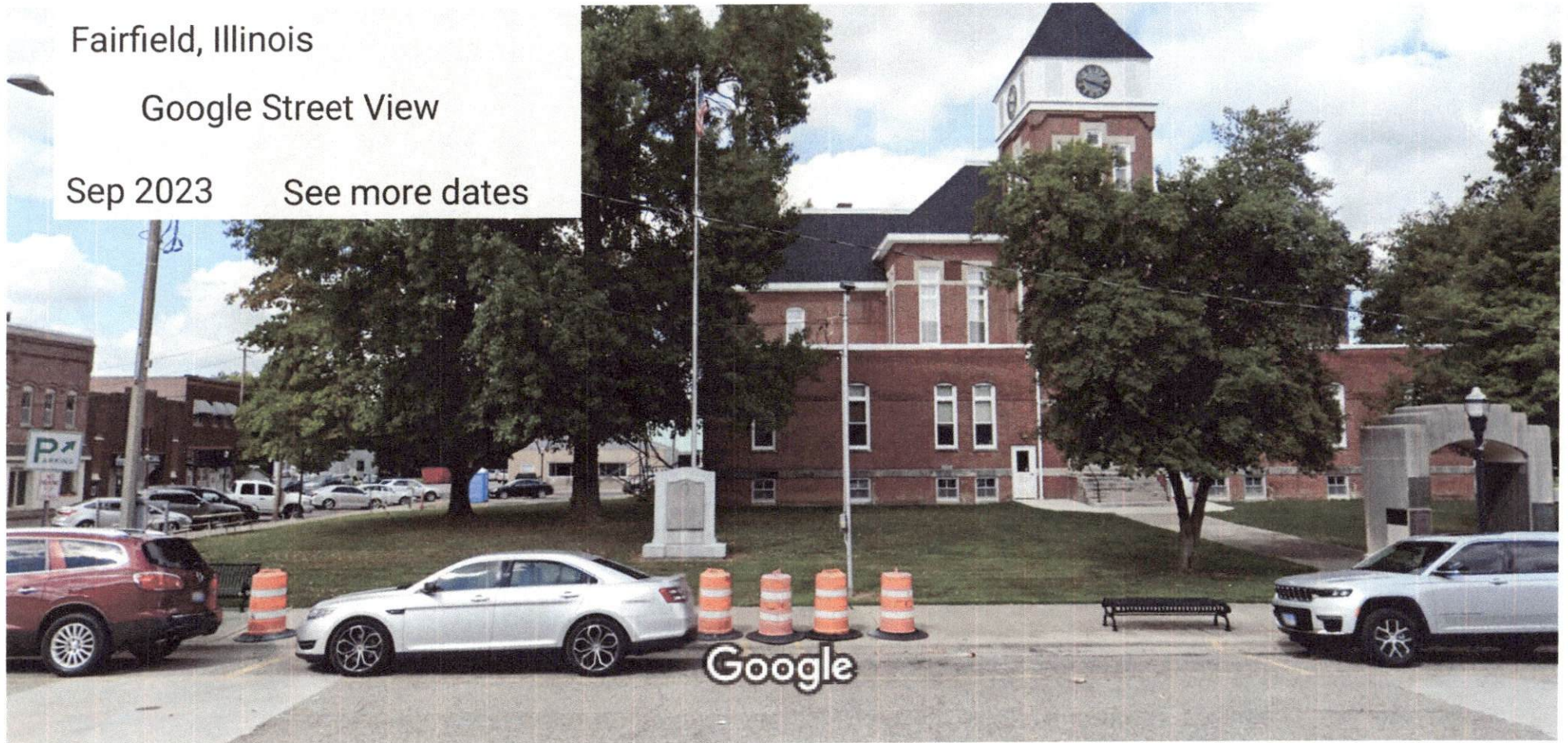


Image capture: Sep 2023 © 2024 Google

# Google Maps 148 NE 3rd St

Fairfield, Illinois

Google Street View

Sep 2023



Image capture: Sep 2023 © 2024 Google

## TERMS AND CONDITIONS SIGNATURE PAGE

1. **Installation:** Superior will be available for installation work any day of the week including Saturday and Sunday. Workers will only work (5) days a week but the weekend can be (2) of those days so as not to disrupt the workers in the performance of their jobs. In the event of an office being unavailable for work, the workers will need access to another office ASAP do as not to delay work. Superior would prefer to start on the top floor and work our way down completing one floor at a time if at all possible.
2. **Material disclaimer:** Superior will provide all materials needed for the work. All material remains the property of Superior as the workers will have more material than is needed to make sure there is no delay in work due to lack of material.
3. **Delay:** Superior shall be excused for any delay in completion caused by "acts of God"; inclement weather; acts of public utilities, public agencies, or inspectors.
4. **Subcontractors:** Superior may subcontract portions of this work to properly qualified subcontractors.
5. **Approximate Start and Completion Dates:** Superior will start the job after delivery of the windows which will be 12-16 weeks after the contract is agreed upon, signed and collection of the initial down payment. Completion of the job should take no longer than (5) weeks weather permitting.
6. **Contract Price:** The price of **\$196,421.00** includes all material, labor, equipment, disposal.
7. **Payment terms: Down payment: \$98,000.00** to be paid down upon signing the agreement and placing the work order for the new windows.

**Schedule of Progress Payments:** **\$32,807.00** to be paid after completion of the first set of (32) windows. **\$32,807.00** to be paid after completion of the second set of (32) windows. **\$32,807.00** to be paid after completion of the third set of (32) windows.

*8. Warranty: 3 year labor/service warranty / \$75 fee waived*

*George L. Prokhorov Jr. DAA Superior Window Company*  
Contractor

  
Accepting Agent

*OWNER*  
Title

*5/2/24*  
Date

*Charma*  
Title

*5/22/24*  
Date

DAN'S GLASS, INC  
811 S. MAPLE ST.  
EFFINGHAM, IL 62401

May 3, 2024

Effingham County Board Office  
Window Project  
101 North Fourth Street, Suite 301  
Effingham, IL 62401

Dan's Glass, Inc. proposes the following for window replacement at the Effingham County Building:

Furnish and install in dark bronze anodized finish:

Winco Window - 4410 series single hung aluminum windows, with sweep lock, Ultra-Lift class 5 balancers, and screens

2nd Floor  
32) 35" x 71"

3rd Floor  
32) 35" x 67"

4th Floor  
32) 35" x 66"

Glazed with 1" standard bronze insulated tempered low E glass with Argon fill

\*Approximate sizes, exact window dimensions will be field verified

\*Includes demo of existing windows

\*Includes break metal trim around perimeter of exterior

\*Includes snap trim/break metal trim around perimeter of interior

\*Exclusions

-Any carpentry work due to unforeseen conditions with existing wood or other materials behind existing windows and metal trim

-Any drywall repair, sill repair, or painting

-Any masonry repair

- Any steel lintel repair, painting, or replacement
- Asbestos abatement or inspection

\*Prevailing wage

\*Tax Exempt

\*Window lead time is approximately 16-18 weeks

\*Potential start date: Late November-December

#### General Contractor References

- Akra Builders
- Wohltman Construction
- Grunloh Construction
- Swinger Construction
- Heritage Builders
- Grunloh Building

Sincerely,

Brandon Roedl  
Vice President  
Dan's Glass, Inc.

[brandon@dansgi.com](mailto:brandon@dansgi.com)  
217-342-9363



811 S. Maple St.  
Effingham, IL 62401  
Phone: (217) 342-9363  
Fax: (217) 342-9306  
E-Mail: dansgi@dansgi.com  
Website: www.dansgi.com

Date	Quote #
5/2/2024	9912

Name / Address
EFFINGHAM COUNTY BUILDING 101 N. 4TH ST. EFFINGHAM, IL. 62401 ATTN: DENNIS

Job Name
Window Replacement

Item	Description	Qty	Rate	Total
BRONZE	<p>Furnish and install in dark bronze anodized finish:</p> <p>Winco 4410 series single hung aluminum windows, with sweep lock, Ultra-Lift class 5 balancers, and screens</p> <p>2nd Floor 32) 35" x 71"</p> <p>3rd Floor 32) 35" x 67"</p> <p>4th Floor 32) 35" x 66"</p> <p>Glazed with 1" standard bronze insulated tempered low E glass with Argon fill</p> <p>*Approximate sizes</p> <p>*Winco Window Warranty: 1 year window, 10 year insulated glass seal failure, 10 year anodized finish</p> <p>*Includes demo of existing windows</p> <p>*Includes break metal trim around perimeter of exterior</p> <p>*Includes snap trim/break metal trim around perimeter of interior</p> <p>*Exclusions -Any carpentry work due to unforeseen conditions with</p>	1	287,500.00	287,500.00

Subtotal

Total

Date of Acceptance \_\_\_\_\_

Signature \_\_\_\_\_



811 S. Maple St.  
Effingham, IL 62401  
Phone: (217) 342-9363  
Fax: (217) 342-9306  
E-Mail: dansgi@dansgi.com  
Website: www.dansgi.com

Date	Quote #
5/2/2024	9912

Name / Address
EFFINGHAM COUNTY BUILDING 101 N. 4TH ST. EFFINGHAM, IL. 62401 ATTN: DENNIS

Job Name
Window Replacement

Item	Description	Qty	Rate	Total
	<p>existing wood or other materials behind existing windows and metal trim</p> <ul style="list-style-type: none"> <li>-Any drywall repair, sill repair, or painting</li> <li>-Any masonry repair</li> <li>-Any steel lintel repair, painting, or replacement</li> <li>-Asbestos abatement or inspection</li> </ul> <p>*Prevailing wage *Tax Exempt</p>			

ACCEPTANCE OF ESTIMATE / PROPOSAL: The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Any change orders will result in increase and/or decreases in price. QUOTED PRICES ARE GOOD FOR 10 DAYS. FINANCE CHARGES OF 2%/MONTH ON ACCOUNTS 30 DAYS PAST DUE. ANY UNPAID BALANCES ARE SUBJECT TO COLLECTION FEES AND ATTORNEY FEES PAYABLE BY CUSTOMER.

<b>Subtotal</b>	\$287,500.00
<b>Total</b>	\$287,500.00

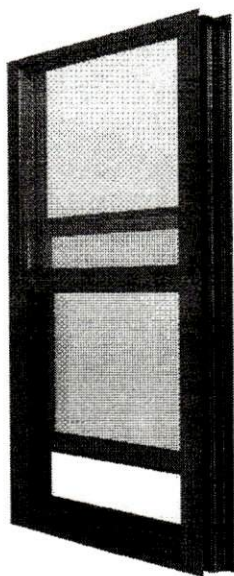
Date of Acceptance \_\_\_\_\_

Signature \_\_\_\_\_


**WINCO**  
WINDOW

# Series 4410

4" Architectural Grade Window System  
Fixed - Single Hung



## Product Overview

The 4410 Series is a fixed and single hung window that will provide years of low maintenance performance. With 0.080" nominal wall thickness throughout the mainframe and sash and a 3/32" thick aluminum sill, the 4410 is up to the task that your project demands. The large window sash is no problem and will lift easily when using our class 5 balance system.

GREEN COMMITMENT

HISTORIC REPLICATION

NOISE CONTROL

BLAST SHIELD

WIND PROTECTION

## Features & Custom Options

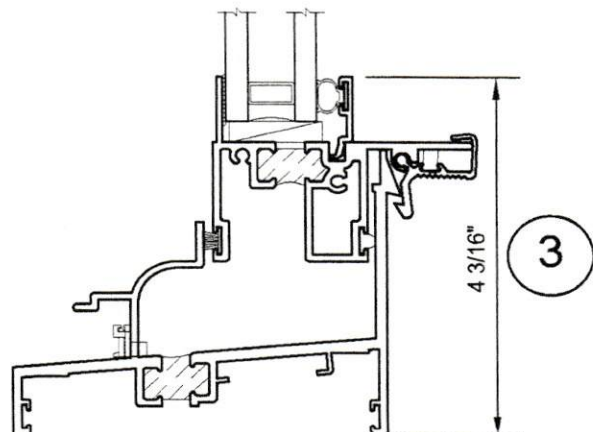
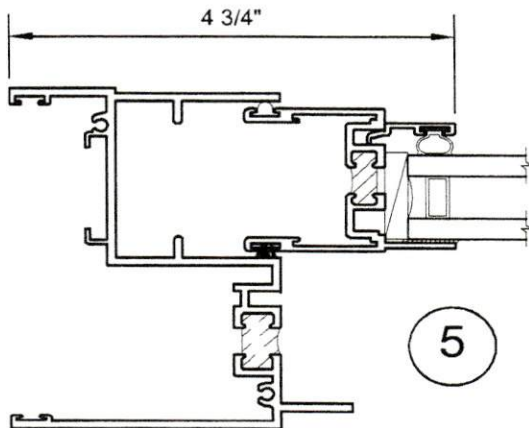
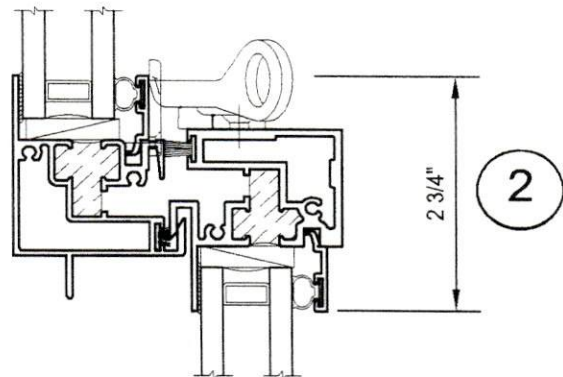
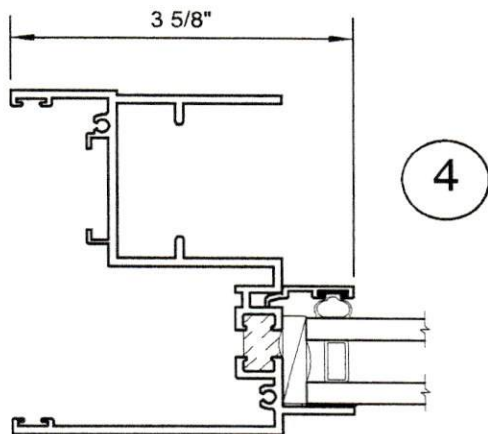
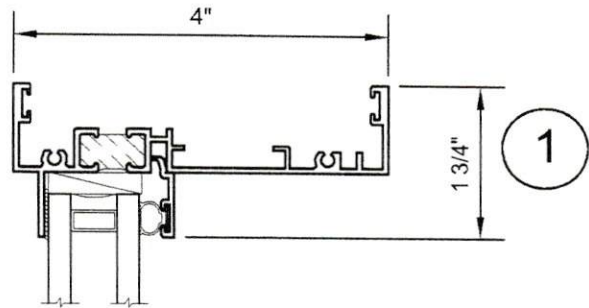
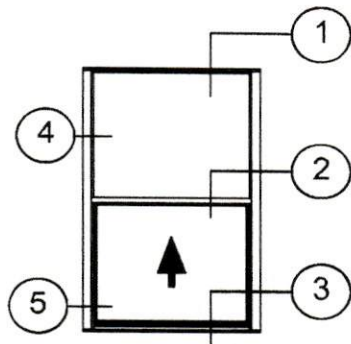
- Azon "Azo-Brader" thermally broken frame and sash, backed by a 10 year warranty against thermal break shrinkage
- Vertical and horizontal stacking members
- Integral lift handle on operable sash
- 4 sided fin seal weather-strip on the exterior
- Various glazing thicknesses available
- Dual glazing with optional integral blinds providing dynamic light control
- Accessory line of receptors, mullions, panning and trim for a customized look
- Blast, ballistic and impact glazing available
- Optional aluminum extruded screens
- Accompanying fixed frame options

## Performance Data\*

Type	Air (CFM/FT <sup>2</sup> @ 6.24 PSF)	Water (PSF)	Structural (PSF)	CRF	U-Value (Btu/Hr-Ft <sup>2</sup> -°F)	STC
AW-PG65-Hung	Less than 0.10	10 (Higher levels may be available upon request)	+/- 97.5	52*	0.41*	Contact your local Rep

\*U-Value, CRF, Water and AW ratings are based on a particular type of glazing and window configuration being used. They are provided for comparison purposes only. They are based on products of standard configuration, tested in accordance with NFRC/FGIA/AAMA specifications, in a laboratory environment under optimum conditions. Performance values will vary according to project specifications, installation, size, configuration, hardware, glass, etc. Any required field testing should be done in accordance with the project specifications and FGIA/AAMA field testing protocol, not this data.

## Series 4410 Detail Drawings



Winco Window Company  
6200 Maple Avenue  
St Louis, MO 63130

TESTING: Our products meet stringent testing requirements of both the American Architectural Manufacturers Association (AAMA) and the National Fenestration Rating Council (NFRC) standards and certification.

VER:210422

# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Information



WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

### PERFORMANCE

The Series 4410 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

Fixed			Single Hung		
AAMA Rating	AW-65		AAMA Rating	AW-65	
Air Infiltration	0.3 CFM/ft <sup>2</sup>		Air Infiltration	0.02 CFM/ft <sup>2</sup>	
Water	Over 12 psf		Water	Over 10 psf	
Structural	97.5 psf		Structural	97.5 psf	
CRF (AAMA 1503)	54		CRF (AAMA 1503)	52	
Center of Glass U-Value	Window U-Factor <sup>3</sup>		Center of Glass U-Value	Window U-Factor <sup>3</sup>	
BTU/Ft <sup>2</sup> x F° x Hr	47" x 59" <sup>2</sup>	60" x 99.5" <sup>1</sup>	BTU/Ft <sup>2</sup> x F° x Hr	47" x 59" <sup>2</sup>	60" x 99.5" <sup>1</sup>
0.20	0.34 <sup>4</sup>	0.29 <sup>4</sup>	0.20	0.49	0.41
0.24	0.37 <sup>4</sup>	0.33 <sup>4</sup>	0.24	0.50	0.42
0.29	0.41 <sup>4</sup>	0.37 <sup>4</sup>	0.29	0.53	0.44
0.34	0.45 <sup>4</sup>	0.41 <sup>4</sup>	0.34	0.55	0.45
0.47	0.55 <sup>4</sup>	0.52 <sup>4</sup>	0.47	0.62	0.50

This Information is based on current product design, sealed dual glazing, warm edge spacers and testing standards.

Please contact WINCO for project specific information

<sup>1</sup> AAMA 101 Test Size

<sup>2</sup> NFRC Gateway Test Size

<sup>3</sup> Based on NFRC 100

<sup>4</sup> Estimated performance

### CONSTRUCTION

**MATERIAL** - The Series 4410 window is a 4" deep frame depth with a nominal wall thickness of 0.062 inch at the head and jamb members. The sill extrusion has a nominal wall thickness of 0.080 inch. The operable sash member is 1-5/8 inch deep with a nominal wall thickness of 0.062 inch. All material is extruded from 6063-T6 alloy.

**THERMAL BREAK** - All framing members of the window system are thermally broken. Winco uses the Azon Azo Brader® process to mechanically condition the surface of the thermal cavity. The process runs the entire length of the extrusion and creates serrations that insure proper adhesion of the structural polymer. The structural urethane is a high density 2 part formula providing optimum thermal performance for the most demanding conditions. The combination of the conditioning of the aluminum surface along with the two part urethane allows Winco to provide a full 10 year warranty against thermal break creep and shrinkage in accordance with AAMA 505-98.

**WEATHER-STRIP** - All operating sash have a heavy fin seal wool pile weather strip on the exterior for superior water and air performance. On the interior side of the sash, a rigid vinyl weatherstripping is used for ease of operation.

**FABRICATION** - The main frame corners are coped and mechanically joined using two stainless steel spline screws per corner (fig 1). The sash utilizes hollow tube shaped extrusions for superior strength and rigidity. The sash corners are coped and mechanically joined using two stainless steel spline screws per corner, aligning the members to form a hairline joint (fig. 2). All frame joints are back sealed with small joint sealer providing a water tight joinery.

WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN  
THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

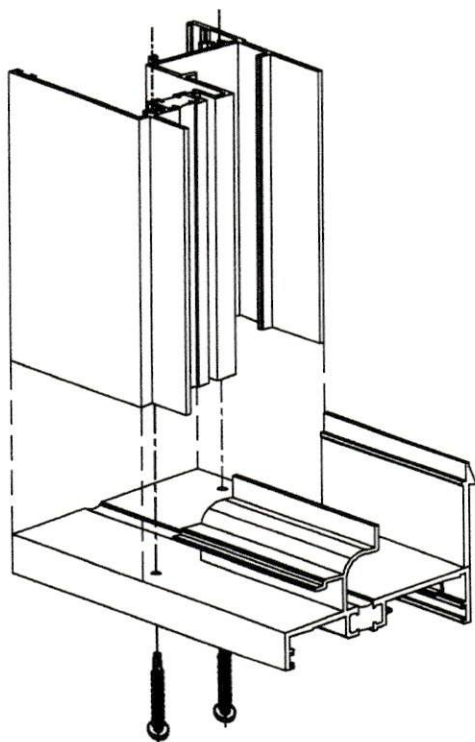
© WINCO WINDOW COMPANY, INC. 2020

# 4410 Series 4" Thermal Fixed & Single Hung Windows

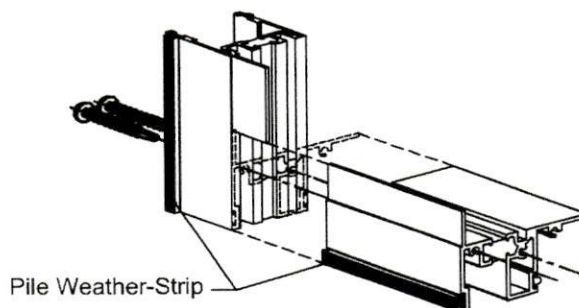
## Product Information



WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



(fig 1) Main Frame Construction



(fig 2) Sash Construction

## GLAZING

The windows can be interior or exterior glazed with .050 thick extruded aluminum glazing beads accommodating thicknesses from 1/4" up to 1". Dual glazing is an option utilizing an interior panel sash with a take out sash. Venetian blinds are available with the dual glazed window option. See the quick reference chart below for all glazing options. For actual details refer to the glazing section in the back of the 4410 section for optional glazing and blind details.

Glazing Thickness	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/4"	1-3/8"	1-1/2"
Monolithic	X	X	X	X	X	X	X	-	-	-	-	-	-	-
Insulated	-	-	-	-	-	-	-	X	-	X	X	-	-	-
Dual Glazed	Exterior	-	X	X	-	-	-	-	-	-	-	-	-	-
	Interior	X	X	X	-	-	-	-	-	-	-	-	-	-
Triple Glazed	Exterior	-	-	-	-	-	-	-	-	-	-	-	-	-
	Interior	-	-	-	-	-	-	-	-	-	-	-	-	-

Winco has different gaskets and glazing methods that can accommodate odd thicknesses of glass. If you do not see what you are looking for within this chart please contact your local representative for information regarding your specific project needs.

# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Information



### HARDWARE

All exposed sweep lock hardware and keepers are solid white bronze alloy with US25D brushed finish. All exposed springloaded snap lock hardware is manufactured from extruded aluminum matching the window frame finish.

Window Type	Spring Lock at Jamb	Spring Lock at Head	Spring Lock at Sill	Stainless Steel Wheel w/ SS Bearing	Nylon Wheel w/ Steel Bearing	Stainless Steel Track Cover	Sweep Lock	Access Control Sweep Lock	Class 5 Sash Balance (Ultralift)	Limit Stop (non removable, Extruded)	Limit Stop (Key- Release)			
Single Hung	-	-	X	-	-	-	X	O	X	O	O			

X = Standard Hardware  
O = Optional Hardware

WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

### SCREENS

**FRAME** - frames are fabricated from 6063-T6 extruded aluminum alloy and temper. All screen frames are miter cut and corner keyed. The corners are mechanically crimped together for durability. The screen frame is finished to match the window frame.

**MESH** - Standard .011 aluminum screen wire mesh is produced from 5154 alloy with 18x16 pattern in Charcoal or Aluminum color. All mesh is applied to the screen frame with a roller spline making for easy and quick replacements. Optional fiberglass or .009 stainless steel mesh is available as an option.

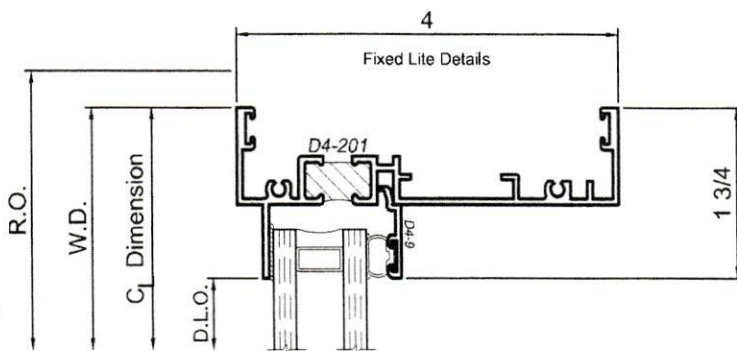
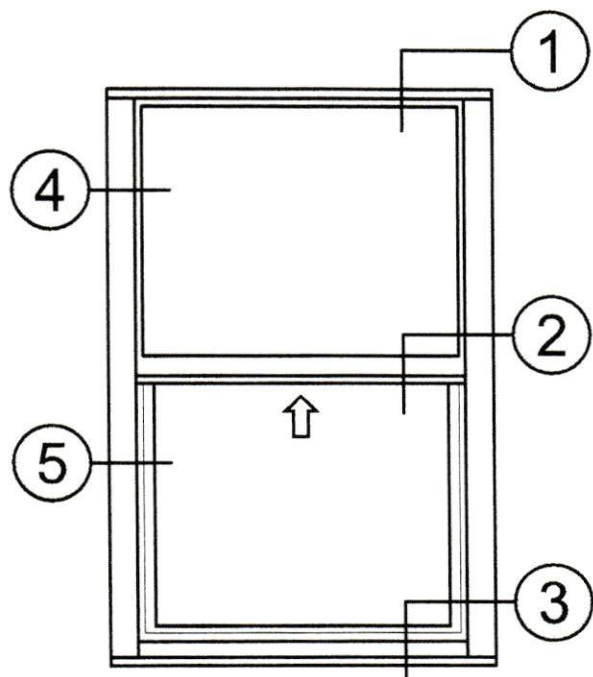
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# 4410 Series 4" Thermal Fixed & Single Hung Windows

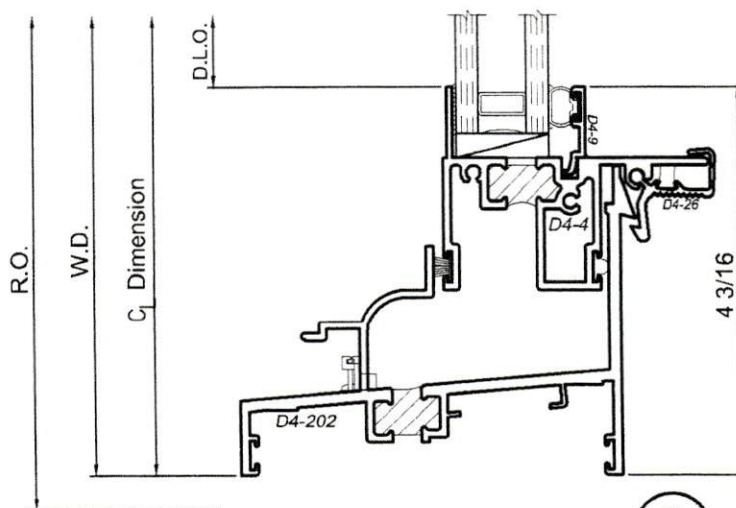
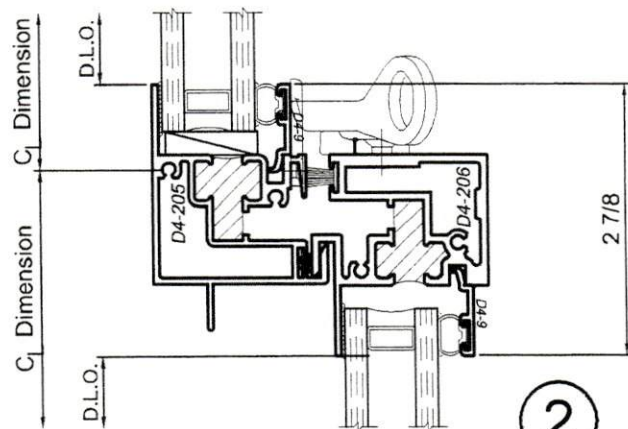
## Product Details - Single Hung Window Head and Sill Details



Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



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SCALE 6"=1'-0"

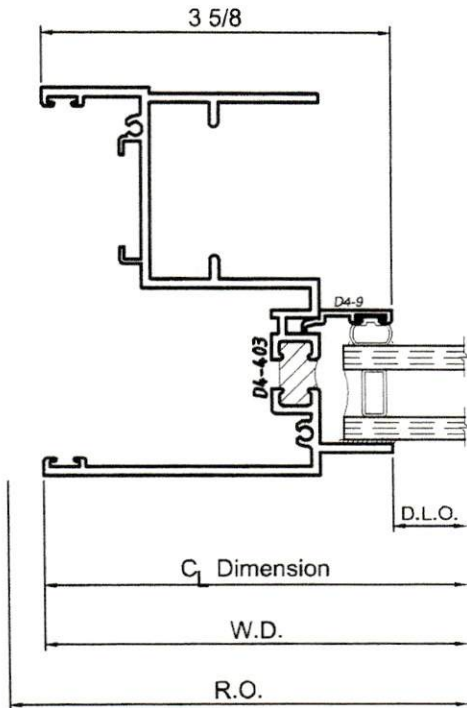
# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Details - Single Hung Window Jamb Details

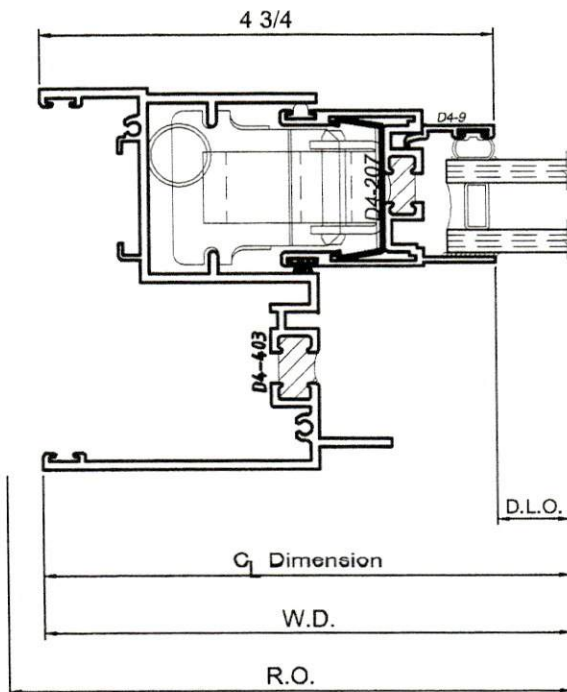


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4



5

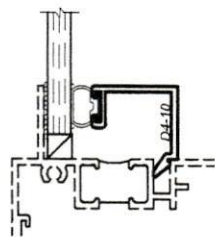
SCALE 6"=1'-0"

# 4410 Series 4" Thermal Fixed & Single Hung Windows

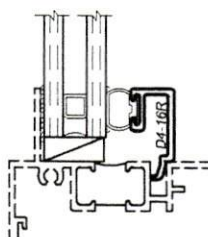
## Product Details - Glazing Options



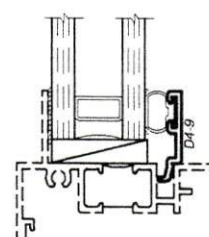
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



1/4" Glazing Bead  
D4-10



5/8" Glazing Bead  
D4-16R



1" Glazing Bead  
D4-9

Note: Odd glass thicknesses may be possible by changing the gasket or the thickness of the glazing silicone. If desired glazing is not shown please contact your local Winco Sales Representative for additional information.

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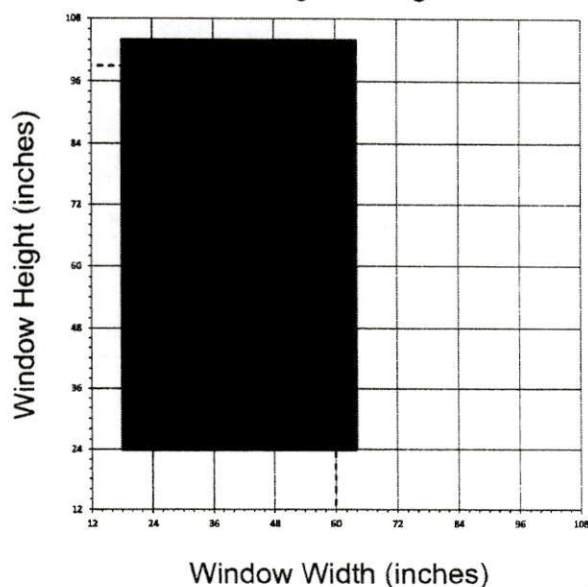
SCALE 6"=1'-0"

# 4410 Series 4" Thermal Fixed & Single Hung Windows Projected Vent Size Capabilities Charts

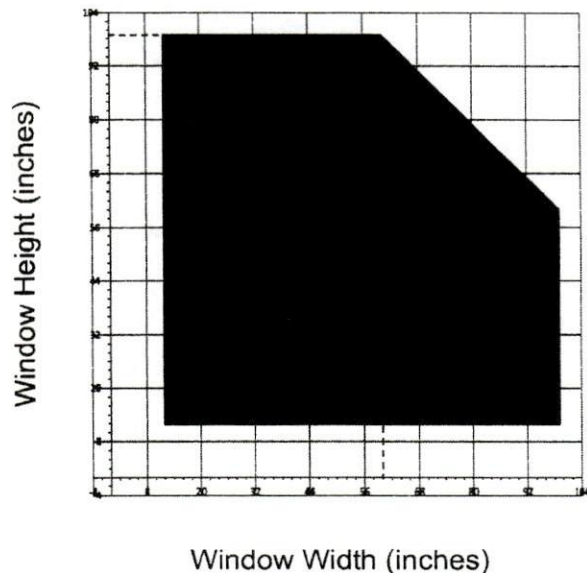


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## Single Hung



## Fixed



- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of  $\frac{1}{4}$ " glass -  $\frac{1}{2}$ " air -  $\frac{1}{4}$ " glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer.
- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum vent size is 14" x 14" with standard water leg sill.
- The chart is a general guideline for projected vent sizing, anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

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# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Details - Vertical Stack - D4-201 / D4-229

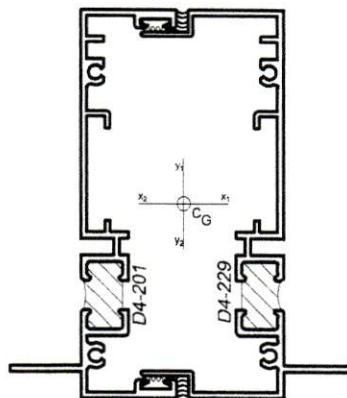


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

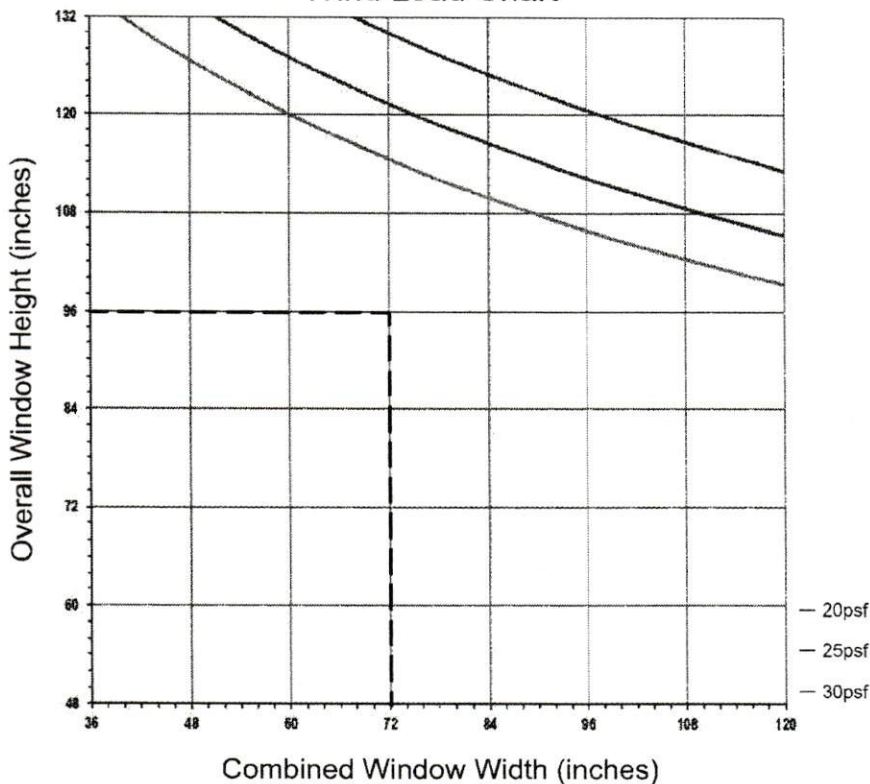
### Combined Properties

	X-X	Y-Y
I	2.7013in <sup>4</sup>	0.1837in <sup>4</sup>
S	1.2365in <sup>3</sup>	0.1648in <sup>3</sup>

Maximum area = 40 ft<sup>2</sup>  
Maximum Total Unit Weight  
must not exceed 500 lbs.



### Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the mullion/stack shown. The chart is based on conservative engineering practices and the minimum result from either L/175 Deflection,  $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The chart reflects the structural strength of 2 continuous window jambs running the full height of the opening. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft<sup>2</sup>) light of glass above.
- Any vent width exceeds 60".
- Window exceeds the maximum size shown.
- Window has multiple rails (>3).

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# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Details - Vertical Stack - D4-201 / D4-420

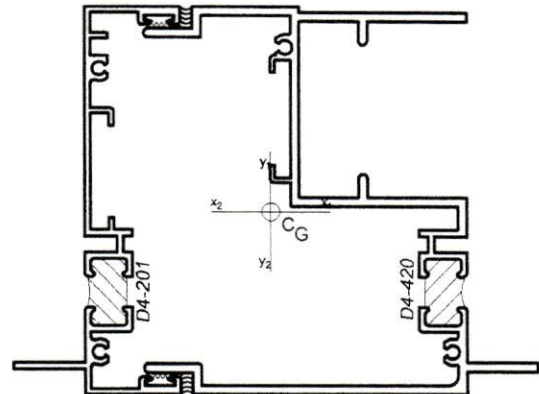


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

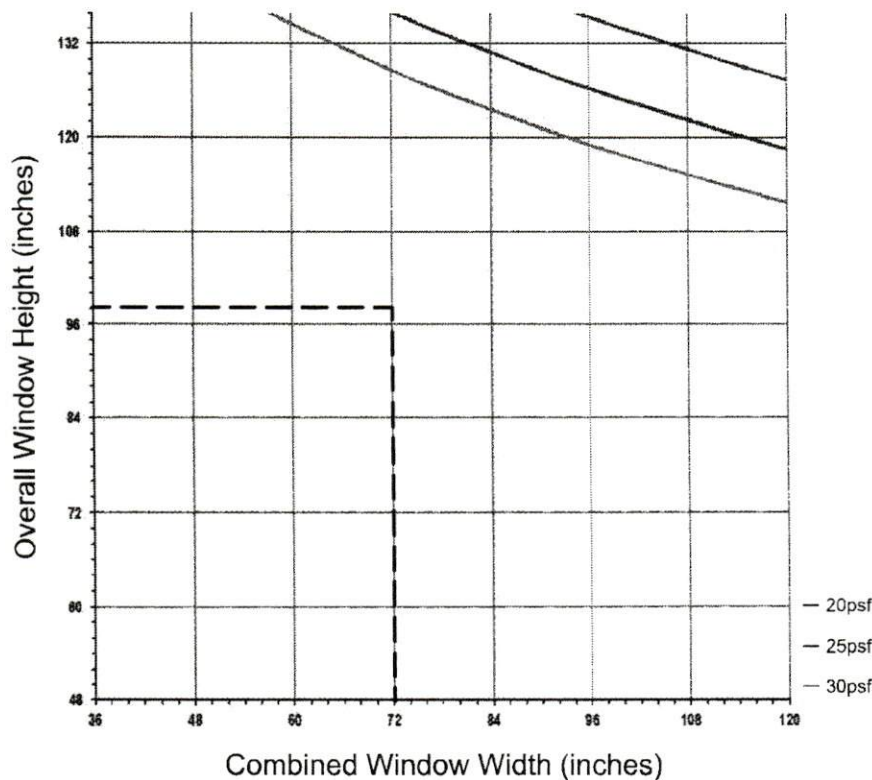
### Combined Properties

	X-X	Y-Y
I	3.9083in <sup>4</sup>	1.1207in <sup>4</sup>
S	1.8131in <sup>3</sup>	0.5463in <sup>3</sup>

Maximum area = 40 ft<sup>2</sup>  
Maximum Total Unit Weight  
must not exceed 500 lbs.



### Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the mullion/stack shown. The chart is based on conservative engineering practices and the minimum result from either L/175 Deflection,  $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The chart reflects the structural strength of 2 continuous window jambs running the full height of the opening. WINCO highly recommends consulting an engineer for any of the following circumstances:

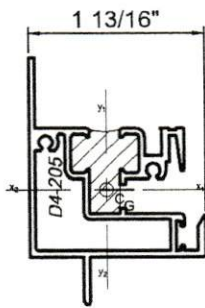
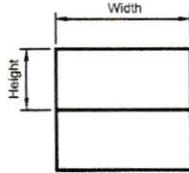
- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft<sup>2</sup>) light of glass above.
- Any vent width exceeds 60".
- Window exceeds the maximum size shown.
- Window has multiple rails (>3).

# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Details - D4-205 Rail

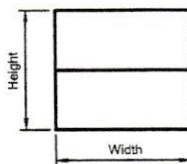


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

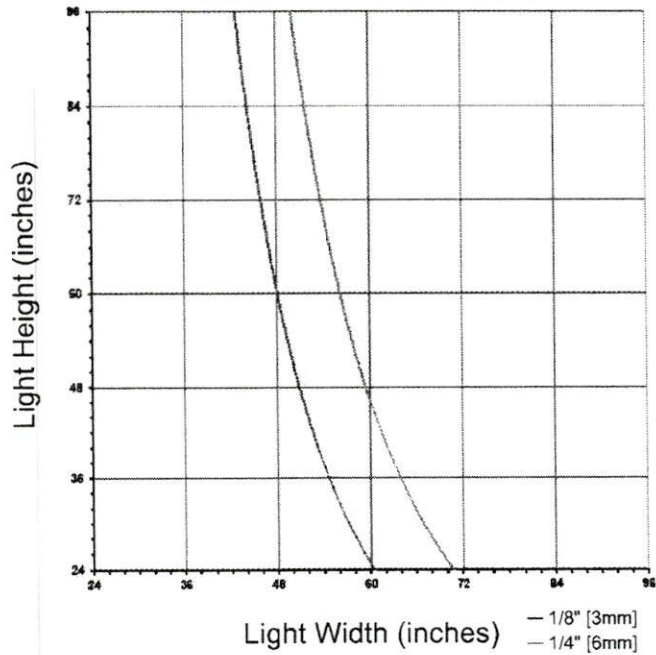


Section Properties

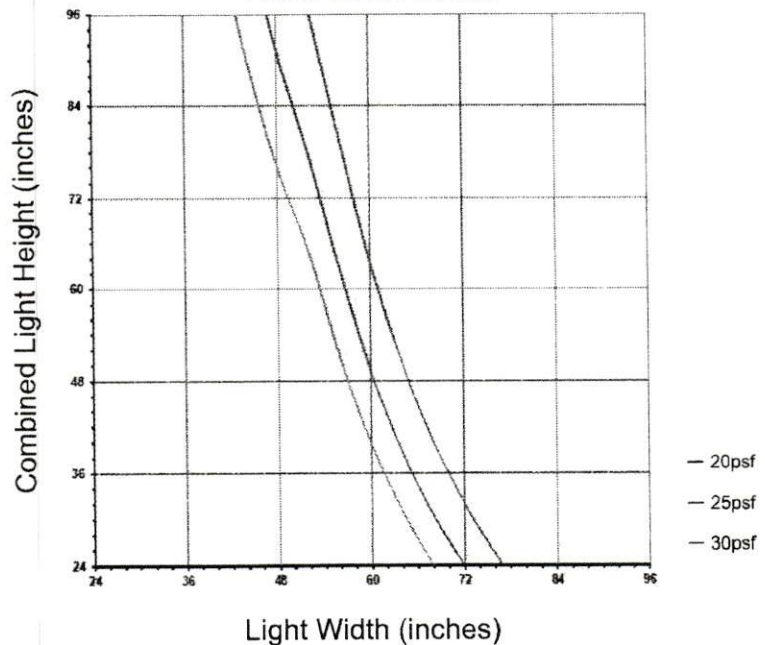
	X-X	Y-Y
I	0.2126in <sup>4</sup>	0.2268in <sup>4</sup>
S	0.1523in <sup>3</sup>	0.2205in <sup>3</sup>



### Glass Dead Load Chart



### Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on 1/4" - 1/2" - 3/4" I.G. and 0.090" deflection at 1/4 and 3/8 point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, 3/4" deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft<sup>2</sup>) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

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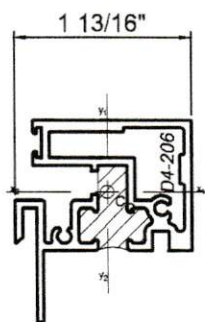
# 4410 Series 4" Thermal Fixed & Single Hung Windows

## Product Details - D4-206 Rail



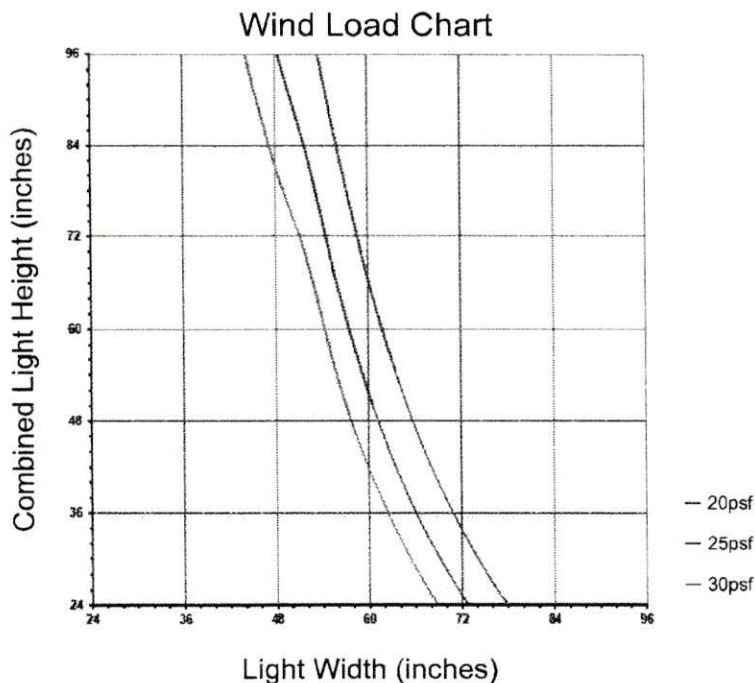
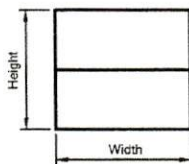
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

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Section Properties

	X-X	Y-Y
I	0.2217 in <sup>4</sup>	0.2814 in <sup>4</sup>
S	0.1624 in <sup>3</sup>	0.2931 in <sup>3</sup>



This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on  $\frac{1}{4}$ " -  $\frac{1}{2}$ " -  $\frac{1}{4}$ " I.G. and 0.090" deflection at  $\frac{1}{4}$  and  $\frac{3}{8}$  point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection,  $\frac{3}{4}$ " deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft<sup>2</sup>) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

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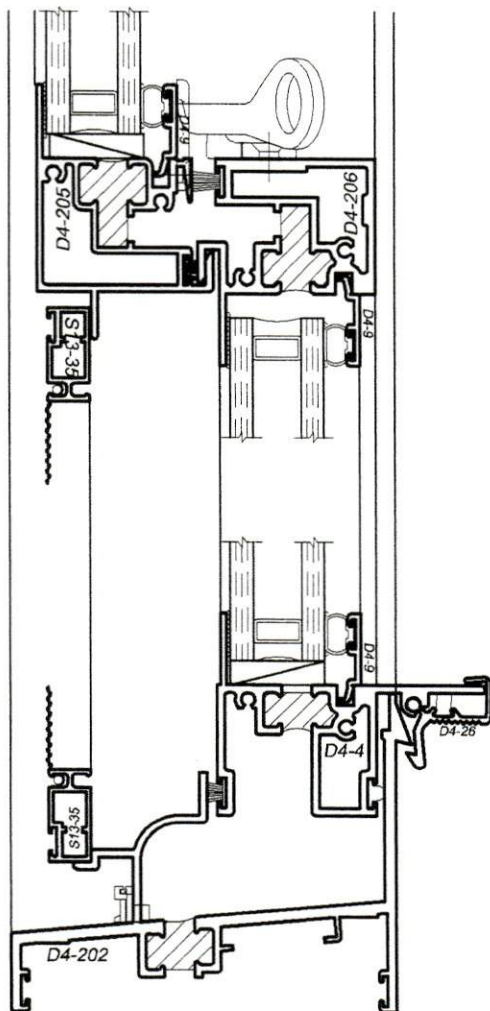
## Product Details - Screen Options - Standard Fixed Screen



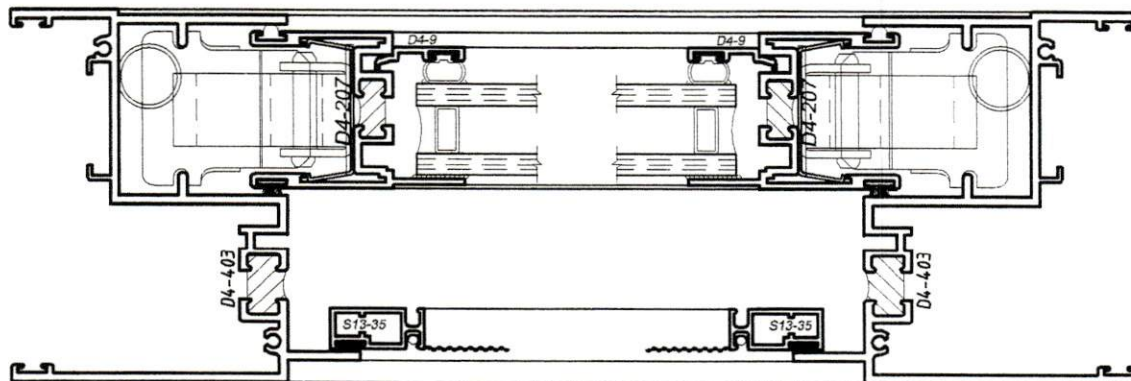
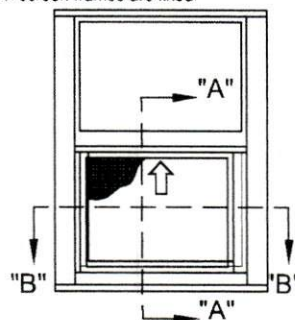
Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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Section "A" - "A"



All screen frames are fixed.



Section "B" - "B"

SCALE 6"=1'-0"