



# Weaver

CONSTRUCTION MANAGEMENT

3679 S Huron Street, Suite 404 Englewood, Colorado 80110

Phone: (303) 789-4111 FAX: (303) 789-4310

## SUBMITTAL TRANSMITTAL

September 10, 2012  
**WCM Submittal No: 08630-001**

PROJECT: **Harold Thompson Regional WRF**  
Birdsall Rd.  
Fountain, CO 80817  
Job No. 2908

ENGINEER: **GMS, Inc.**  
611 No. Weber St., #300  
Colorado Springs, CO 80903  
719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan  
Sewage Disposal District**  
901 S. Santa Fe Ave.  
Fountain, CO 80817  
719-382-5303 James Heckman

CONTRACTOR: **Ken Carly Glass, Inc.**  
1454 Woolsey Heights  
Colorado Springs, CO 80915  
719-573-5044 Josh Cavanaugh  
josh@kcglassinc.com

SUBJECT: Submittal of Serious Energy Windows for the Operations Building

SPEC SECTION: 08800 - Glazing

PREVIOUS SUBMISSION DATES:

DEVIATIONS FROM SPEC: \_\_\_ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver Construction Management and, unless indicated otherwise, has been found to be in conformance with the intent of the contract documents.

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Contractor's Stamp:

Engineer's Stamp:

Date: 9/10/12

Reviewed by: Adam Roeder

( ) Reviewed Without Comments

(X) Reviewed With Comments

ENGINEER'S  
COMMENTS: \_\_\_\_\_

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PH 303-789-4111  
FX 303-789-4310

3679 So. Huron St., Suite 404  
Englewood, Colorado 80110

**Project: HDTWRF Project**

**Location: Fountain, CO**

**Supplier: Ken Caryl Glass Inc.**

**Date: 9/10/12**

**Submittal : Windows for Operations Building**

**Additional Submittal Review Comments:**

Two exterior windows are supposed to be 36" X 8". Ken Caryl Glass is requesting that they be 36" X 14". Their supplier cannot make widows smaller than 14".

**Reviewed by Adam Roeder**

**End of Review**



12450 MEAD WAY  
 LITTLETON, CO. 80125  
 303-791-3122  
 303-791-3126 FAX

TO: Weaver Construction  
 \_\_\_\_\_  
 \_\_\_\_\_

# LETTER OF TRANSMITTAL

Date: 09/07/2012	Job Number:
Attention: Bruce Herman	
RE: Harold Thompson Operations Bldg.	

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

- Shop Drawings   
  Prints   
  Plans   
 Samples   
 Specifications  
 Copy of letter   
 Change order   
 Product Data \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1	09/07/2012		Frame drawings - emailed
1	09/07/2012		Serious Energy product data (fixed and awning) - emailed
1	09/07/2012		Glass product data - emailed
1	09/07/2012		DOW CWS caulking data - emailed
1	09/07/2012		DOW - CWS caulking color chart - emailed

THESE ARE TRANSMITTED as checked below:

- For approval   
 Approved as submitted   
 Resubmit \_\_\_\_\_ copies for approval  
 For your use   
 Approved as noted   
 Submit \_\_\_\_\_ copies for distribution  
 As Requested   
 Returned for corrections   
 Return \_\_\_\_\_ corrected prints  
 For review and comment   
 \_\_\_\_\_  
 FOR BIDS DUE \_\_\_\_\_ 20\_\_\_\_   
 PRINTS RETURNED AFTER LOAN TO US

REMARKS: Serious Energy cannot manufacture a window smaller than 14".

Lead time on the Serious Energy windows is 6 to 8 weeks.

COPY TO: \_\_\_\_\_

Signed: \_\_\_\_\_

## Product Information

# Silicone Sealants

DOW CORNING

## Dow Corning® Contractors Weatherproofing Sealant

### FEATURES

- Primerless on most common nonporous building substrates
- Balanced adhesive strength, medium modulus, and high recovery
- Easily gunnable in all weather conditions

### COMPOSITION

- High-performance, medium-modulus, one-part, neutral-cure silicone sealant

### Medium-modulus silicone joint sealant

### APPLICATIONS

- Sealing dynamically moving joints such as expansion and control joints, concrete panel joints, tilt-up panel joints, curtainwall joints, perimeter caulking (windows, doors, panels, EIFS, bedding of mullions, panels, and frames, etc.)

### TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning Sales Application Engineer or Dow Corning Customer Service before writing specifications on this product.

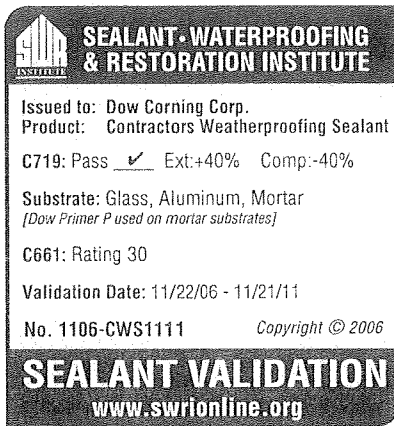
Method	Test	Unit	Result
<b>As Supplied</b>			
	Colors		20 standard, 19 made-to-order special, and custom colors
	Application Temperature, substrate	°C (°F)	-29 to 49 (-20 to 120)
	Tack-Free Time, 50% RH	hours	3-6
	Curing Time, 3/8" (9 mm) depth, 50% RH at 25°C (77°F)	days	7-14
ASTM C 639	Weep and Sag		Passes
	VOC Content	g/L	35
<b>As Cured</b>			
ASTM C 661	Durometer Hardness, Shore A	points	25 ±5
ASTM D 412	Ultimate Tensile Strength	psi (MPa)	180 (1.24)
ASTM D 412	Ultimate Elongation	percent	550
ASTM C 794	Peel Strength	lb/in (N/m)	20 to 28 (109 to 152)
ASTM C 719	Joint Movement Capabilities, extension/compression	percent	±40
ASTM C 510	Staining		Passes
ASTM C 792	Weight Loss, Cracking, and Chalking after Heat Aging		Passes
	Service Temperature, cured bead	°C (°F)	-40 to 121 (-40 to 250)

### DESCRIPTION

*Dow Corning®* Contractors Weatherproofing Sealant is primerless on most common nonporous building substrates. This unique weather-resistant formulation possesses a balanced adhesive strength, medium modulus, and high recovery, making it ideal to withstand adverse conditions in common installations including moisture, movement, sheer, and de-flection. It is easily gunnable in all weather conditions from -29 to 49°C (-20 to 120°F). Because it requires no mixing and a smaller joint ratio, it is

an economical, high-performance alternative to other sealant options with a ±40 percent movement capability.

*Dow Corning* Contractors Weatherproofing Sealant is available in 20 standard stocked colors (white, limestone, gray, window bronze, sandstone, aluminum, antique white, charcoal, black, bronze, precast white, off white, ivory, buff, mountain fog, anodized aluminum, sandalwood, geographic beige, redwood tan, light bronze) and 19 made-to-order special colors. Custom colors are also available.



## APPROVALS/SPECIFICATIONS

*Dow Corning* Contractors Weatherproofing Sealant meets or exceeds the requirements of:

- ASTM C 920, Type S, Grade NS, Class 35, Use NT, M, A, and O (granite)

## HOW TO USE

Refer to the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on joint design, preparatory work, priming, masking, and application techniques.

## Joint Design

While most urethanes suggest a depth of 1/2" to 5/8" (13 to 16 mm) in wide joints, the superior weathering of this silicone allows a 3/8" (9 mm) depth in wide joints. *Dow Corning* Contractors Weatherproofing Sealant can be used in the following joint configuration:

- Minimum width of joint should be four times the anticipated movement, but not less than 1/4" (6 mm) wide.
- Joint depth to be 1/4" (6 mm) for joints 1/4" to 1/2" (6 to 13 mm) in width.
- Maximum joint depth not to exceed 3/8" (9 mm).
- Maximum joint size approximately 1-1/4" (32 mm) width x 3/8" (9 mm) depth in a single application.
- Consult your local *Dow Corning* representative for specific design requirements.

## Surface Preparation

The joint interface must be clean, dry and free from oils, loose mortar, laitance, form release agents, water-proofings, dampproofings, and other contaminants. A thorough wire brushing, grinding, sandblasting, or solvent cleaning may be required to expose clean, sound, virgin surface.

## Priming

Primer should be applied before installing the backer rod. Applying a bead of silicone sealant to the substrate material to test adhesion prior to general use is always recommended.

*Dow Corning* Contractors Weatherproofing Sealant is primerless on most common nonporous building substrates. Consult *Dow Corning* for priming recommendations on other materials.

In all cases, a sample should be tested and/or test joints should be installed on the project.

## Masking

Areas adjacent to joints should be masked to ensure neat sealant lines and to avoid contact with polished granites, metal, or glass. Do not allow masking tape to touch clean surfaces on which the sealant is to adhere. Masking should be removed immediately after tooling.

## Application

Install backer material or joint filler, setting blocks, spacer shims, and tapes as specified. Apply sealant in a continuous operation, using a positive pressure adequate to properly fill and seal the joint.

## Tooling

Tooling should be completed in one continuous stroke immediately after sealant application and before a skin forms. Tool or strike the sealant with light pressure to spread the material against the backer material and the joint surfaces. A tool with a concave

profile is recommended to keep the sealant within the joint. Do not use liquid tooling aids such as water, soap, or solvents.

Tool the sealant applied at sills so that precipitation and cleaning solutions will not pool.

## Cleaning

Immediately remove all excess sealant and smears adjacent to the joint with xylene or toluene as work progresses.<sup>1</sup>

## Typical Cure

Cure rate at 25°C (77°F) and 50% RH:

- Tack-free time: 3-6 hours
- Through cure (3/8" [9 mm] depth): 7-14 days

## Maintenance

Generally, no maintenance is required. If the sealant becomes damaged, replace the damaged portion. *Dow Corning* Contractors Weatherproofing Sealant will adhere to most cured silicone sealant with only a preparatory solvent wipe to remove accumulated dirt. Dirty sealant may be cleaned with a solvent wipe or soap and water.

## HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

<sup>1</sup>Follow solvent manufacturer's recommended safe handling instructions and applicable federal, state, and local regulations.

## USABLE LIFE AND STORAGE

*Dow Corning* Contractors Weatherproofing Sealant has a shelf life of 12 months from date of manufacture. Refer to product packaging for "Use By" date.

## PACKAGING

*Dow Corning* Contractors Weatherproofing Sealant is available in 10.3-fl oz (305-mL) cartridges (12 per case), 20-fl oz (591-mL) sausage packs (16 per case) and 2-gal (7.5-L) pails.

## LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

*Dow Corning* Contractors Weatherproofing Sealant is not recommended for:

- Silicone structural glazing
- Application in confined areas without proper ventilation
- Joints under constant water submersion

## SHIPPING LIMITATIONS

None.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, *Dow Corning* has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com), or consult your local *Dow Corning* Sales Application Engineer.

## AVAILABILITY

*Dow Corning* Contractors Weatherproofing Sealant is available from a local *Dow Corning* distributor. Call 1-800-248-2481 or (989) 496-6000 for the name of the distributor nearest you.

## LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our

products are beyond our control, this information should not be used in substitution for customer's tests to ensure that *Dow Corning*'s products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

*Dow Corning*'s sole warranty is that the product will meet the *Dow Corning* sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

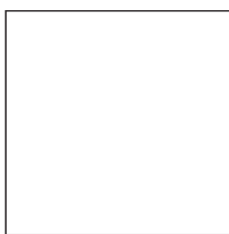
A 5-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your *Dow Corning* Sales Application Engineer for details.

## Sealant Color Selection Guide

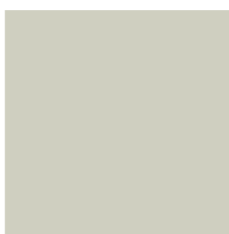
- Please check the availability of the different colors.
- Please refer to product literature for applications and technical information.

*The colors shown are a close approximation of the actual sealant colors. However, for best results, submit color samples or swatches to our lab for color testing and matching.*

### Standard Colors



White



Limestone



Gray



Window Bronze



Sandstone



Aluminum



Antique White



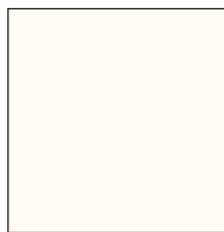
Charcoal



Black



Bronze



Precast White

[Click here for special colors](#)

Project Name: Harold Thompson frame drawings

Date: 9/7/12 8:55 AM

Frame Set Name: Frame Set 1

Frame Name: Awning

Metal Group:

D/S: 1 Frame Type: Standard

Required: 3

Panels: 2

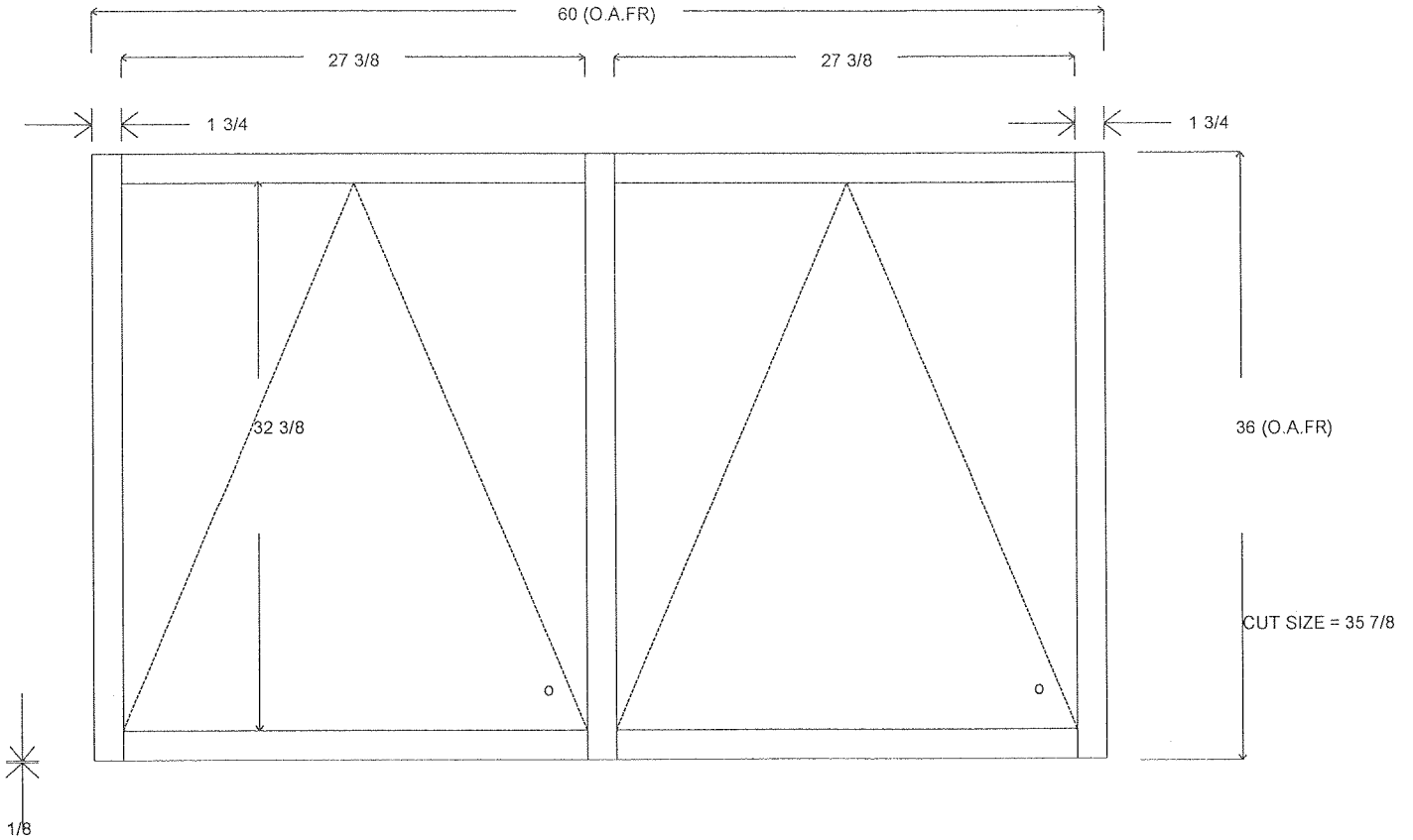
Rows: 1

Frame Width: 60

Frame Height: 36

Back Member Color:

Face Member Color: NULL





Project Name: Harold Thompson frame drawings

Date: 9/7/12 8:55 AM

Frame Set Name: Frame Set 1

Frame Name: Frame 2

Metal Group:

D/S: 1 Frame Type: Standard

Required: 2

Panels: 1

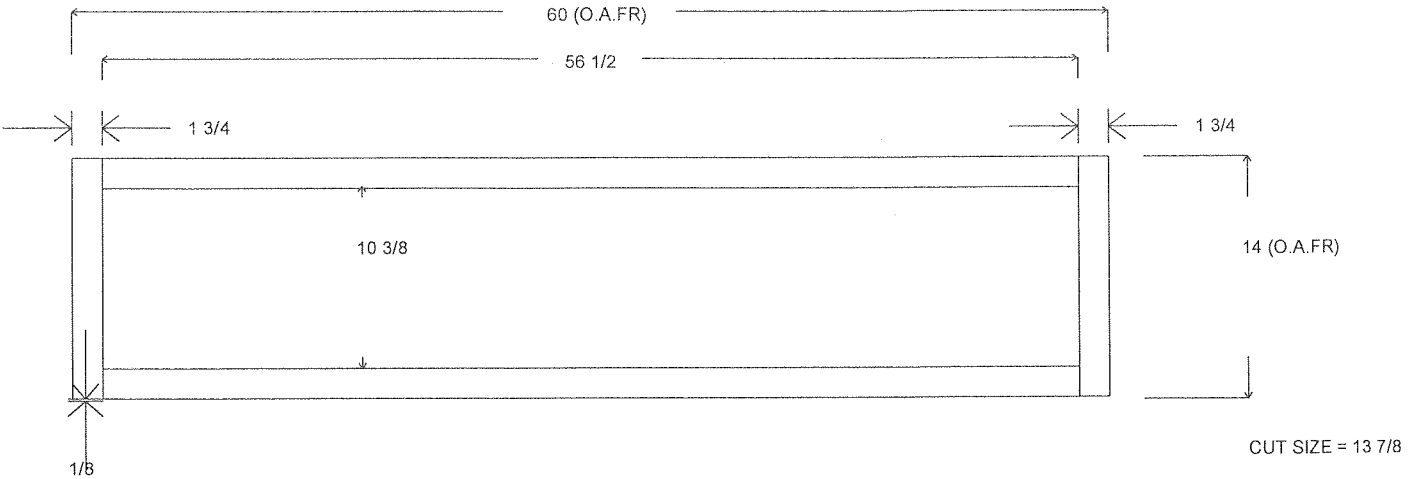
Rows: 1

Frame Width: 60

Frame Height: 14

Back Member Color:

Face Member Color: NULL



14" HEIGHT IS THE SMALLEST  
WINDOW SERIOUS ENERGY  
CAN MANUFACTURE.

Project Name: Harold Thompson frame drawings

Date: 9/7/12 8:55 AM

Frame Set Name: Frame Set 1

Frame Name: Frame 3

Metal Group:

D/S: 1 Frame Type: Standard

Required: 2

Panels: 1

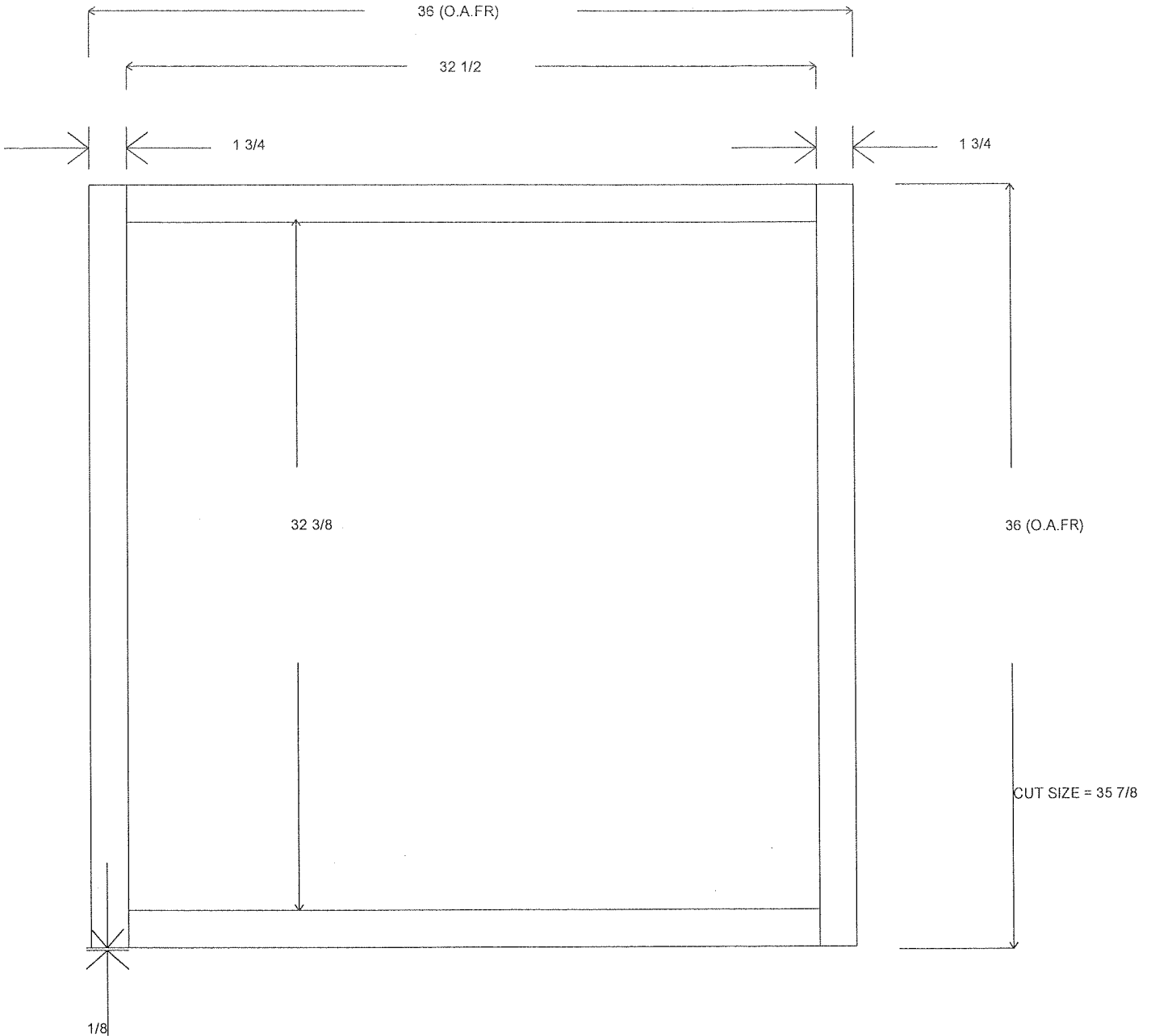
Rows: 1

Frame Width: 36

Frame Height: 36

Back Member Color:

Face Member Color: NULL



# **PRODUCT AND PERFORMANCE DATA**

**SeriousWindows Submittals for:**

**Harold D. Thompson Operations Building**

DATE: Septemeber 7, 2012



## SeriousWindows 325 Series

SeriousWindows 325 series is our most economical fiberglass window. The 325 series delivers the thermal and structural performance you need at an affordable price. The hand-crafted, custom made 325 series come with an optional wood interior which delivers the beauty of wood on the inside with the durability of fiberglass on the outside. These virtually zero maintenance windows can be installed in new construction and remodeling/replacement projects.

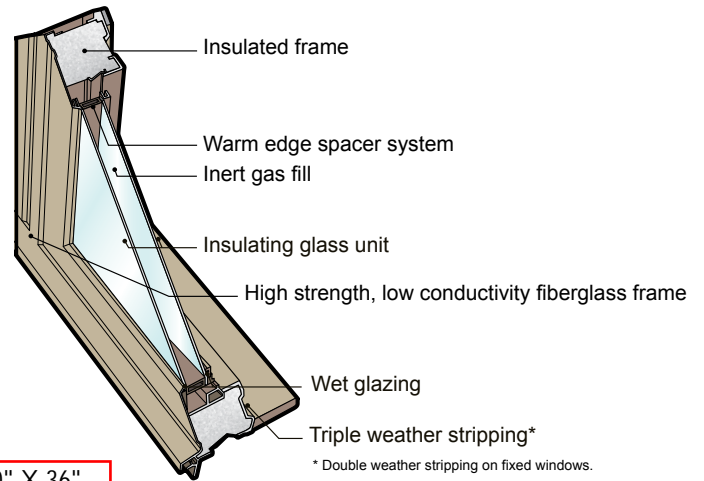
### Benefits of SeriousWindows 325:

- Excellent thermal performance at an affordable price
- Reduced interior condensation
- Unique design keeps the window warmer in the winter and cooler in the summer
- Virtually maintenance free
- Architectural freedom allowing for more glass in your design
- Can contribute to LEED credits

## Technical Specifications

### SeriousWindows 325 Performance Specs:

Styles	SeriousGlass 3L				
	U-Factor	R-Value	SHGC	VT	CRF
Fixed Picture LP	0.27	3.7	0.24	0.57	56
Fixed Picture HP	0.26	3.8	0.22	0.51	53
Single Hung	0.30	3.3	0.21	0.49	51
Double Hung	0.30	3.3	0.20	0.47	52
Casement/Awning	0.29	3.4	0.19	0.44	54
Horizontal Sliding	0.30	3.3	0.21	0.49	51
Sliding Patio Door	0.29	3.4	0.21	0.49	46



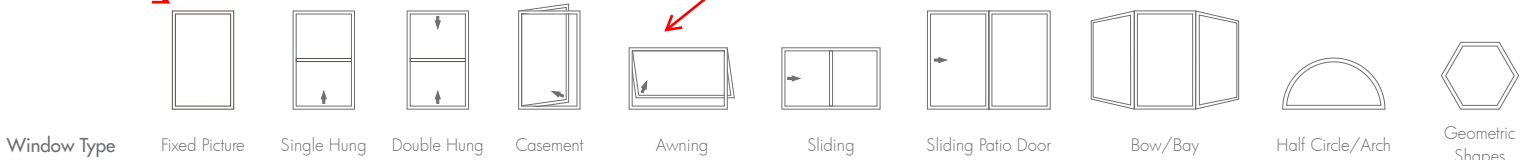
### SeriousGlass 3L:

Offering an affordable solution of R-Values 3.0+ and Low Solar Heat Gain, SeriousGlass 3L features low-E coated glass, a low conductivity spacer and inert gas fill.

Four windows (2 @ 60" X 14" and 2 @ 36" X 36")

Three windows 60" X 36"

### Window Style



### Jamb Extensions

4 9/16, 6 9/16, Pine and Oak

### Frame Style

Nail fin, block frame, brick mould, brick mould with nail fin

## Grille Options

SeriousWindows 325 Series offer interior and exterior Simulated Divided Lite (SDL) options\* in a range of colors and patterns.

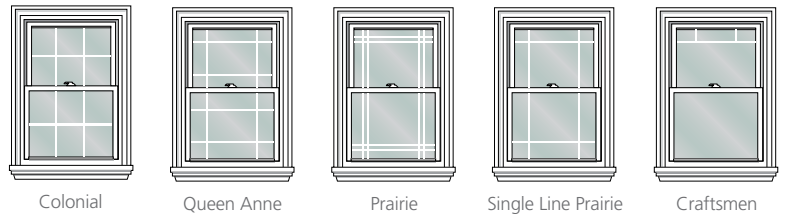
### Interior (composite)

Interior grille matches interior paint and color. For interior veneers, grille is ready to stain.

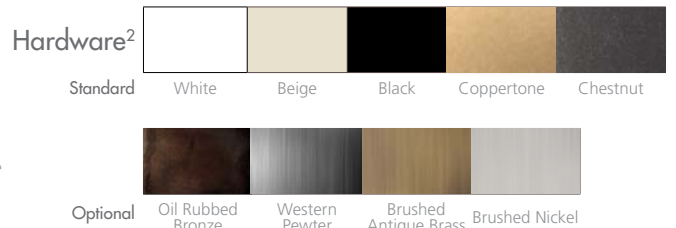
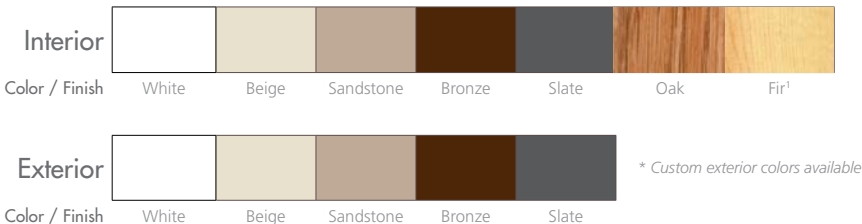
### Exterior (metal)

Exterior grille matches exterior paint color.

\* Custom grille designs available



## Color Options



<sup>1</sup> Available in picture, casement and awning window styles only. <sup>2</sup> Sliding patio doors available with White, Chestnut & Black. Refer to Sliding Patio Door Data sheet for all colors.



X25 Series Fiberglass Total Unit and Center of Glass Performance



325 Series	SeriousGlass™			Total Unit Performance							COG (Center of Glass) Performance			
	Glass Package	Glazing	Gas Fill	U-value	R-value	SHGC	VT	CR	Air Infil. @1.57 psf	U-value	R-value	SHGC	VT	
Picture Window (LP)	SeriousGlass 3L	Dual Pane Low E	Argon	0.27	3.7	0.24	0.57	56	<0.01 (cfm/sqft)	0.25	4.0	0.27	0.64	
Picture Window (HP)	SeriousGlass 3L	Dual Pane Low E	Argon	0.26	3.8	0.22	0.51	55	<0.01 (cfm/sqft)	0.25	4.0	0.27	0.64	
Casement Window	SeriousGlass 3L	Dual Pane Low E	Argon	0.28	3.6	0.19	0.44	56	<0.01 (cfm/sqft)	0.25	4.0	0.27	0.64	
Awning Window	SeriousGlass 3L	Dual Pane Low E	Argon	0.28	3.6	0.19	0.44	56	0.05 (cfm/sqft)	0.25	4.0	0.27	0.64	
Double-Hung Window	SeriousGlass 3L	Dual Pane Low E	Argon	0.30	3.3	0.20	0.47	52	0.16 (cfm/sqft)	0.25	4.0	0.27	0.64	
Horizontal Siding Window	SeriousGlass 3L	Dual Pane Low E	Argon	0.29	3.4	0.21	0.50	51	0.07 (cfm/sqft)	0.25	4.0	0.27	0.64	
Single-Hung Window	SeriousGlass 3L	Dual Pane Low E	Argon	0.29	3.4	0.21	0.49	51	0.07 (cfm/sqft)	0.25	4.0	0.27	0.64	
Sliding Patio Door	SeriousGlass 3L	Dual Pane Low E	Argon	0.28	3.6	0.21	0.49	51	N/A	0.25	4.0	0.27	0.64	



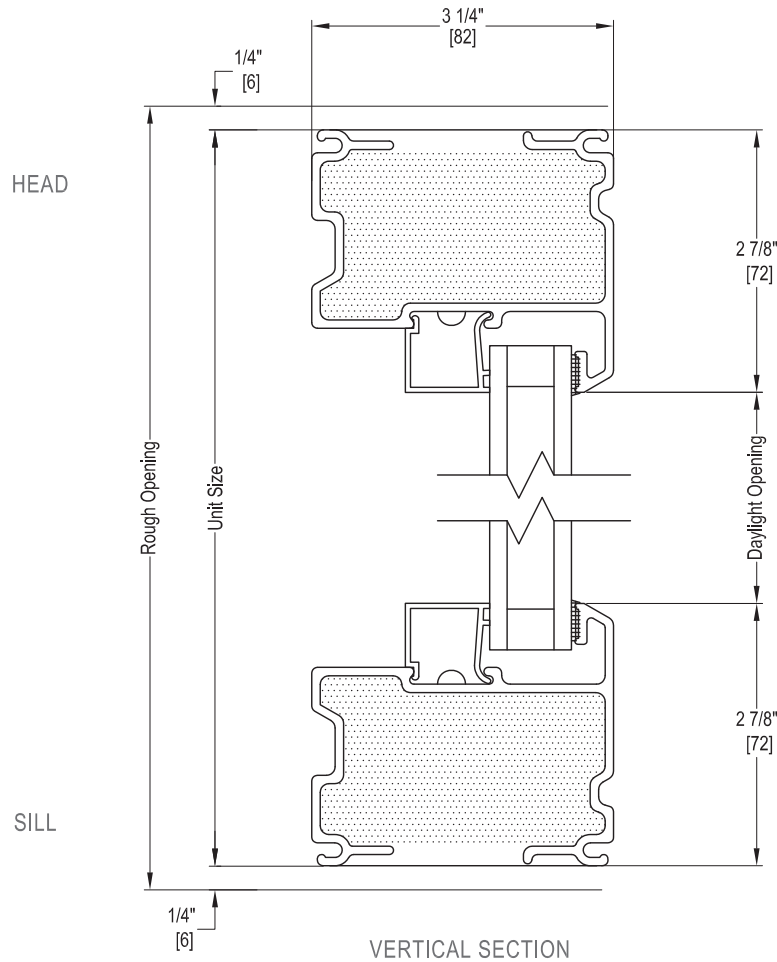
525 Series	SeriousGlass™			Total Unit Performance							COG (Center of Glass) Performance			
	Glass Package	Glazing	Gas Fill	U-value	R-value	SHGC	VT	CR	Air Infil. @1.57 psf	U-value	R-value	SHGC	VT	
Picture Window (LP)	SeriousGlass 5L	Dual Pane, 1 Low SHG Film	Argon	0.17	5.9	0.27	0.48	65	<0.01 (cfm/sqft)	0.12	8.3	0.30	0.54	
Picture Window (HP)	SeriousGlass 5H	Dual Pane, 1 High SHG Film	Argon	0.19	5.3	0.51	0.60	63	<0.01 (cfm/sqft)	0.14	7.1	0.57	0.68	
Casement Window	SeriousGlass 5L	Dual Pane, 1 Low SHG Film	Argon	0.17	5.9	0.24	0.43	63	<0.01 (cfm/sqft)	0.12	8.3	0.30	0.54	
Awning Window	SeriousGlass 5H	Dual Pane, 1 High SHG Film	Argon	0.18	5.6	0.45	0.54	61	<0.01 (cfm/sqft)	0.14	7.1	0.57	0.68	
Double-Hung Window	SeriousGlass 5L	Dual Pane, 1 Low SHG Film	Argon	0.21	4.8	0.21	0.37	63	<0.01 (cfm/sqft)	0.12	8.3	0.30	0.54	
Horizontal Siding Window	SeriousGlass 5H	Dual Pane, 1 High SHG Film	Argon	0.22	4.5	0.40	0.47	62	<0.01 (cfm/sqft)	0.14	7.1	0.57	0.68	
Single-Hung Window	SeriousGlass 5L	Dual Pane, 1 Low SHG Film	Argon	0.21	4.8	0.21	0.37	64	0.05 (cfm/sqft)	0.12	8.3	0.30	0.54	
Sliding Patio Door	SeriousGlass 5H	Dual Pane, 1 High SHG Film	Argon	0.22	4.5	0.40	0.47	63	0.05 (cfm/sqft)	0.14	7.1	0.57	0.68	



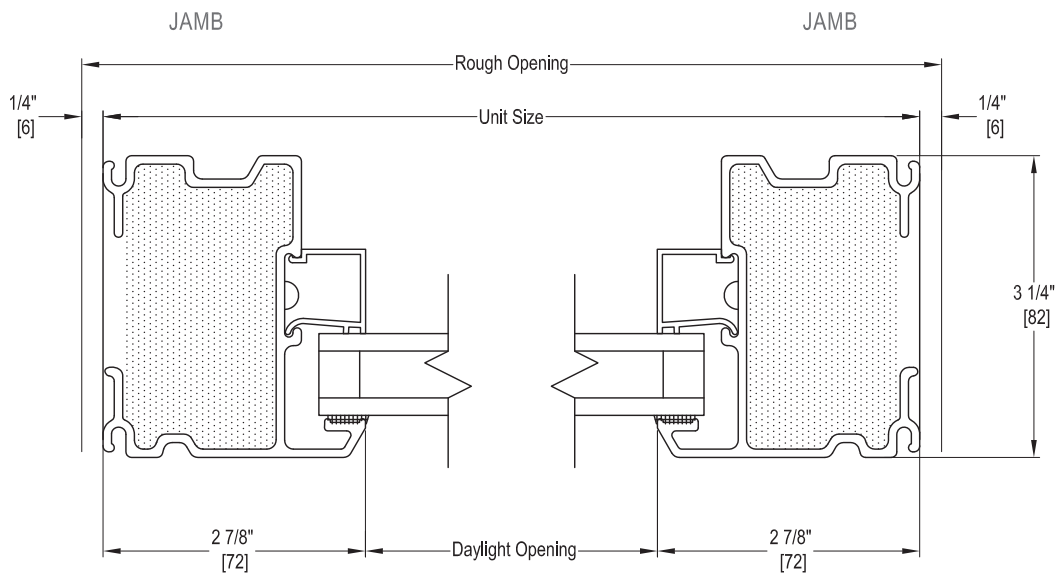
# SeriousWindows™

	Title	Performance Grade	Performance Grade
	<u><b>X25 Casement Window</b></u> AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05 ANSI/AAMA/NWWDA 101/I.S.2-97 Design Pressure Air Infiltration @ 1.57 psf Water Penetration Resistance Test Pressure Operating force (in motion) Forced Entry Resistance	CW-PG50 (36" X 72") C-50 (36" X 72") LC-50 (36" X 72") 50.13 psf (2400 Pa) 0.02 cfm/ft2 (0.1 L/s/m2) 7.52 psf (360 Pa) 1 lbf (4 N) ASTM F-588 Grade 10  <b>Expiration: 07-14-15</b>	
	<u><b>X25 Awning Window</b></u> AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05 ANSI/AAMA/NWWDA 101/I.S.2-97 Design Pressure Air Infiltration @ 1.57 psf Water Penetration Resistance Test Pressure Operating force (in motion) Forced Entry Resistance	CW-PG50 (60" X 36") C-50 (60" X 36") C-50 (60" X 36") 50.14 psf (2500 Pa) <0.01 cfm/ft2 (0.1 L/s/m2) 7.25 psf (360 Pa) <1.0 lbf (<5 N) ASTM F-588 Grade 10  <b>Expiration: 02-15-16</b>	
	<u><b>X25 High Profile Picture Window</b></u> AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05 ANSI/AAMA/NWWDA 101/I.S.2-97 Design Pressure Air Infiltration @ 1.57 psf Water Penetration Resistance Test Pressure Forced Entry Resistance	CW-PG45 (60" X 60") C-45 (60" X 60") C-45 (60" X 60") 45.11 psf (2160 Pa) 0.02 cfm/ft2 (0.05 L/s/m2) 15.04 psf (720 Pa) ASTM F-588 Grade 40  <b>Expiration: 05-11-15</b>	CW-PG35 (72" X 96") C-35 (72" X 96") C-35 (72" X 96") 35.09 psf (1680 Pa) <0.01 cfm/ft2 (<0.05 L/s/m2) 7.52 psf (360 Pa) ASTM F-588 Grade 40  <b>Expiration: 05-12-15</b>
	<u><b>X25 Low Profile Picture Window</b></u> AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-05 ANSI/AAMA/NWWDA 101/I.S.2-97 Design Pressure Air Infiltration @ 1.57 psf Water Penetration Resistance Test Pressure Forced Entry Resistance	CW-PG70 (60" X 60") C-70 (60" X 60") C-70 (60" X 60") 70.18 psf (3360 Pa) <0.01 cfm/ft2 (<0.01 L/s/m2) 12.11 psf (580 Pa) ASTM F-588 Grade 40  <b>Expiration: 10-26-15</b>	CW-PG45 (72" X 96") C-45 (72" X 96") C-45 (72" X 96") 45.11 psf (2160 Pa) <0.01 cfm/ft2 (<0.05 L/s/m2) 7.52 psf (360 Pa) ASTM F-588 Grade 40  <b>Expiration: 10-25-15</b>

WINDOW DETAILS



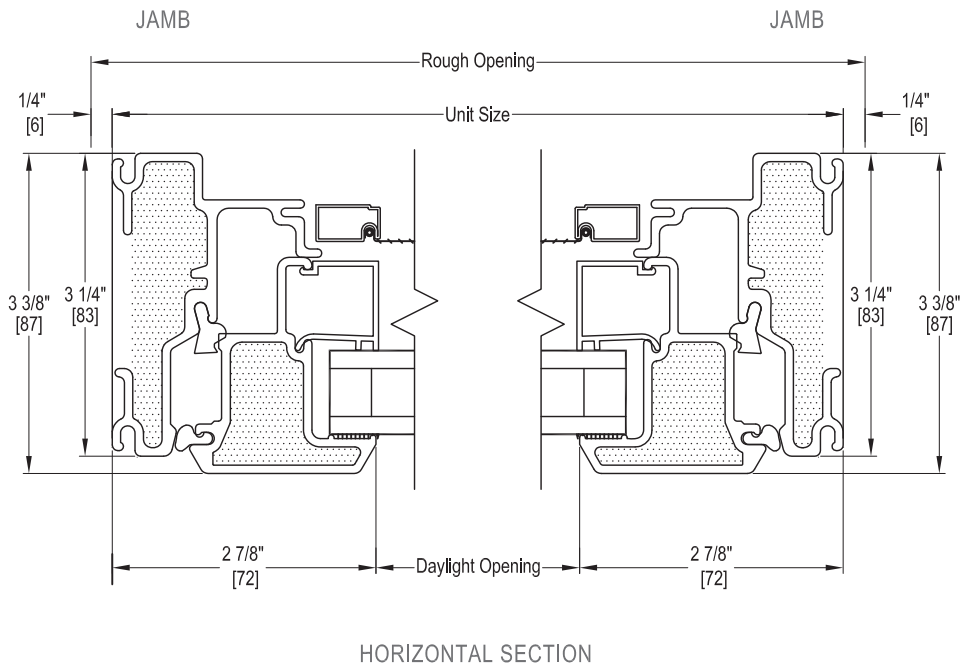
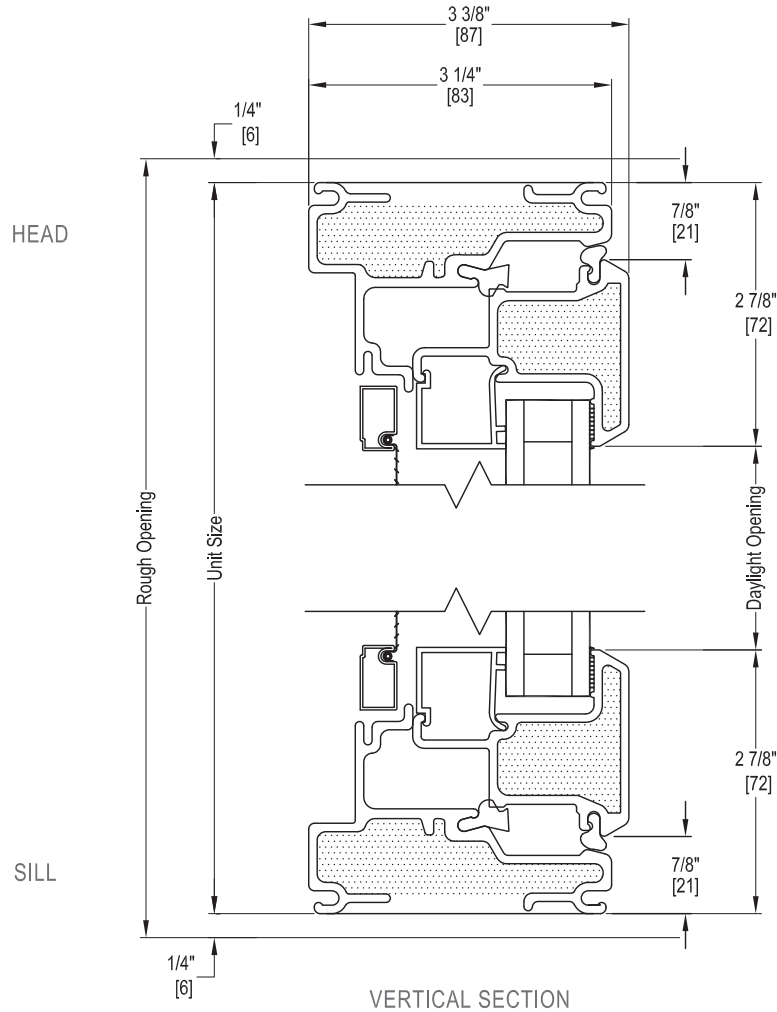
VERTICAL SECTION



HORIZONTAL SECTION



WINDOW DETAILS





Differentiate Your  
Product Line Easily  
And Economically

With Encore®  
Handle And Operator  
Cover Options.

## Encore® Operator

HANDLES AND COVERS

For more information, visit  
[www.truth.com](http://www.truth.com)



700 West Bridge Street  
Owatonna, MN 55060

**1-800-866-7884**

Fax: 507-451-5655

# Encore® Operator

HANDLES AND COVERS

Stylish Simplicity In A Snap!





# Differentiate Your Windows With Style—

Now Available In Recessed Full-Flip Handle and Snap-Fit Cover Designs.

## Encore® Series Nesting Operator Covers Offer A Smooth Contemporary Look

Truth's new "nesting" cover for the Encore Series of operators provides options to an already stylish design. Encore operators give you all the strength and performance characteristics you need in an operator with the flexibility of handle and cover options.

## Full-Flip Handle

The Full-Flip Handle design eliminates collapse during operation and Encore® Operators require 33% less effort to operate than previous operators. The handle provides smooth operation with a more contemporary look when nested and allows for easy screen removal without removing the crank.

## Snap-Fit Cover

The Snap-Fit cover removes easily for painting and staining of the window frame and provides a smooth, contemporary look for your windows. Integrated snap feature allows fastenerless cover attachment and installation after home is completed, helping to eliminate construction damage.

In addition, the Full-Flip Handle and Snap-Fit Covers provide an opportunity for you to reduce your inventory of optional operator colors as the hardware's appearance can be changed by simply adding a different handle and cover option. The Encore Series Nesting Handles and Covers are available in all of Truth's finish options as well as many popular decorative finishes.

For more information about Encore®, Maxim® and EntryGard® Series cover and handle options contact your Truth representative.

## Encore® Operator

HANDLES AND COVERS



#13342.XX (LH)  
#13343.XX (RH)  
With Metal Cover  
Left Hand Shown

#12614.XX (LH)  
#12616.XX (RH)  
Left Hand Shown

#13423.XX (LH)  
#13424.XX (RH)  
Left Hand Shown

Chestnut Color to match bronze.



**Warranty:** Protected under the terms of the Truth Warranty for Window & Door Manufacturers and Authorized Distributors. Refer to Truth's Terms and Conditions for further details.

For more information visit [www.truth.com](http://www.truth.com) or call 1-800-866-7884.