

Specifications

SECTION 08 56 40

HURRICANE RESISTANT WINDOWS

PART 1 GENERAL

1.01 Work Included

- A. Furnish and install aluminum architectural windows complete with hardware and related components as shown on drawings and specified in this section.
- B. All windows shall be U.S. Aluminum Series IW7500 C75 or Series IW7600 CW100 Rated Hurricane Resistant Concealed Vent Thermal Windows (*Specify*). Other manufacturers requesting approval to bid their product as an equal must submit the following information 10 days prior to close of bidding.
1. A sample window, 36" x 24" (914 x 610) single unit, as per requirements of architect.
 2. Test reports documenting compliance with requirements of Section 1.05 or 11.15 of CSA A440.
- (*Specify glass and glazing in this section if window assemblies are to be glazed by the window manufacturer. If glazing is to be done by a different contractor, glass and glazing should be specified in Section 08 80 00*).
- C. Glass and Glazing
1. Reference Section 08 80 00 for Glass and Glazing.

1.02 Related Work

- Section 08 40 00 - Entrances and Storefronts
- Section 08 44 00 - Glazed Curtain Walls
- Section 08 50 00 - Windows
- Section 08 88 19 - Hurricane Resistant Glazing

1.03 Testing and Performance Requirements

- A. Test Units
1. Air, water, and structural test unit shall conform to requirements set forth in ANSI/AAMA/NWWDA 101 I.S. 2-97 and AAMA 910-93 or CSA A440.

2. Thermal test unit sizes shall be 36" x 60" (914 x 1524). Unit shall consist of a casement, fixed or projected window.
- B. Test Procedures and Performances
 1. Windows shall conform to all AAMA/ANSI/NWWDA-101 I.S. 2-97 and AAMA 910-93 or CSA A440 requirements for the window type referenced in 1.01.B. In addition, the following specific performance requirements shall be met.
 2. Air Infiltration Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 283-91 at a static air pressure difference of 6.24 psf.
 - b. Air infiltration shall not exceed .30 cfm per foot of crack.
 3. Water Resistance Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 331-96/ASTM E 547 at a static air pressure difference of 12 psf.
 - b. There shall be no uncontrolled water leakage.
 4. Uniform Load Deflection Test
 - a. With ventilators closed and locked, test unit in accordance with ASTM E 330-97 at a static air pressure difference of 112.5 psf positive and negative pressure.
 - b. No member shall deflect over L/175 of its span.
 5. Condensation Resistance Test (CRF)
 - a. With ventilators closed and locked, test unit in accordance with AAMA 1503.
 - b. Condensation Resistance Factor (CRF) shall not be less than 49.
 6. Thermal Transmittance Test (Conductive U-Value)
 - a. With ventilators closed and locked, test unit in accordance with NFRC 100, 200, and AAMA 1503.

Hurricane Resistant Concealed Vent Windows

- Series IW7500
- Series IW7600

- b. Conductive thermal transmittance (U-Value) shall not be more than 0.63 BTU/hr/ft²/°F.
7. AAMA C75 Rating Testing Procedures-AAMA/WDMA/CSA 101/I.S.2/A440-0.8 - Laboratory Performance Testing. AAMA 502-08 - Newly Installed Fenestration Products. AAMA 511-08 - Installed Fenestration Products After 6 Months.
8. Hurricane Resistant Testing as per Miami/Dade County Protocols TAS 201, 202, and 203.

1.04 Quality Assurance

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.05 or 11.15 of CSA A440.
- B. Test reports shall be accompanied by the window manufacturer's letter of certification, stating the tested window meets or exceeds the referenced criteria for the appropriate AAMA/NWWDA 101/I.S.2-97 and AAMA 910-93 or CSA A440 window type.

1.05 Submittals

- A. Contractor shall submit shop drawings, finish samples, test reports, and warranties.

1.06 Warranties

- A. Total Window System
1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total window installation which includes that of the windows, hardware, glass (including insulated units), glazing, anchorage and setting system, sealing, flashing, etc., as it relates to air, water, and structural adequacy as called for in the specifications and approved shop drawings.

STORM FRONT™ WINDOWS

Specifications

SECTION 08 56 40

HURRICANE RESISTANT WINDOWS

PART 2 PRODUCTS

2.01 Materials

A. Aluminum

1. Extruded aluminum shall be 6063-T5 alloy and tempered.

B. Hardware

1. Locking handles shall be supplied by U.S. Aluminum.
2. Operating hardware shall be 4-Bar Stainless Steel Arms or equal.

C. Weatherstrip

1. All weatherstrip shall be E.P.D.M. or equal.

D. Thermal Barrier

1. Barrier material shall be poured-in-place two part polyurethane. To ensure that composite strength remains unaltered during thermal cycling, a mechanical bond between the aluminum and the thermal filling shall be created by mechanically abrading the extrusion thermal cavity prior to filling with the polyurethane polymer. A non-structural thermal barrier is unacceptable.
2. Specified hardware shall not bridge the thermal barrier.

E. Accepts Laminated 1" (25) Glazing

2.02 Fabrication

A. General

1. All primary aluminum frame and vent extrusions shall have a minimum wall thickness of .125" (3.2)
2. Mechanical fasteners, welded components, and hardware items shall not bridge thermal barriers. Thermal barriers shall align at all frame and vent corners.
3. Depth of frame and vent shall not be less than 3" (76.2) for 1" (25) glazing.

B. Frame

1. Frame components shall be mechanically fastened.

C. Ventilator

1. All vent extrusions shall be tubular.
2. Each corner shall be mitered, reinforced with an extruded corner key, and hydraulically crimped.
3. Each vent shall be pressure equalized utilizing two rows of E.P.D.M. weatherstripping (or equal) installed in dovetail grooves in the extrusion.
4. The vent shall present a flush appearance with the main frame when in the closed position.

D. Screens

1. Screen frames shall be extruded.
2. Screen mounting holes in the window frame shall be factory drilled.
3. Screen mesh shall be aluminum or fiberglass (if applicable).

E. Glazing

1. All units shall be glazed with spacer and structural silicone.

F. Finish

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain...

(Specify one of the following):

- ____ #11 Clear anodic coating
- ____ #22 Dark Bronze anodic coating
- ____ #33 Black anodic coating

A Fluoropolymer paint coating conforming with the requirements of AAMA 2605. Color shall be *(Specify a U.S. Aluminum standard color)*.

Hurricane Resistant Concealed Vent Windows

- Series IW7500
- Series IW7600

PART 3 EXECUTION

3.01 Inspection

A. Job Conditions

1. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface, and are in accordance with approved shop drawings.

3.02 Installation

A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.

B. Plumb and align window faces in a single plane for each wall plane, and erect windows and materials square and true. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.

C. Adjust windows for proper operation after installation.

D. Furnish and apply sealants to provide a weather tight installation at all joints and intersections, and at opening perimeters.

3.03 Protection and Cleaning

A. After completion of window installation, windows shall be inspected, adjusted, put into working order and left clean, free of labels, dirt, etc. Protection from this point shall be the responsibility of the general contractor.

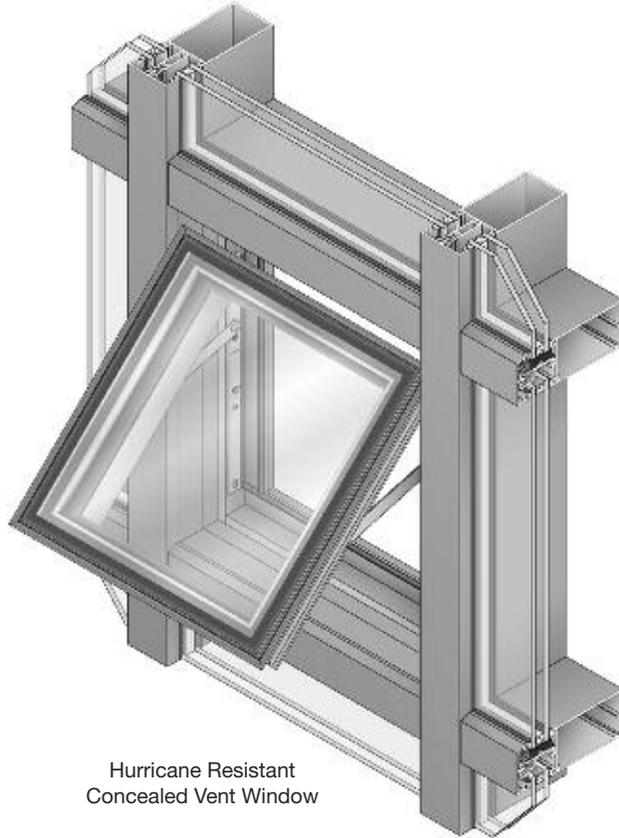
STORM FRONT™ WINDOWS

Special Features

FOR 1" (25) GLAZING

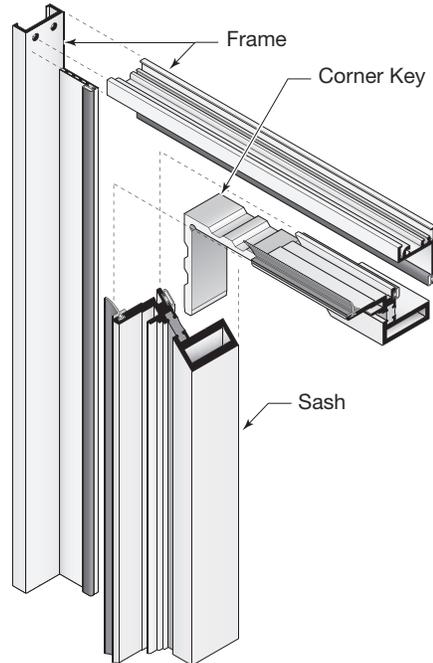
Hurricane Resistant Concealed Vent Window

• Series IW7500



Hurricane Resistant
 Concealed Vent Window

The Series IW7500 Hurricane Resistant Concealed Vent is a minimal sightline out-swing thermally broken window perfect for use in storefront, ribbon wall, and curtain wall openings in coastal areas requiring Hurricane Resistant Systems. Stainless steel 4-bar hinges and cam locking handles complete the heavy-duty hardware used on the Hurricane Resistant Window. As with all of our operable windows, vent construction is accomplished with tubular vent components, mitered, reinforced with corner keys, and crimped.



When closed, the vent is sealed to the frame with E.P.D.M. bulb gaskets ensuring an air tight seal. The 1" (25) laminated glazing is held in place with structural silicone.

HARDWARE SELECTION GUIDE

SERIES IW7500 HURRICANE RESISTANT CONCEALED VENT WINDOW

 <p>WH601 Locking Handle</p>	 <p>WH602 Keeper</p>	 <p>WH603 Handle Base</p>	 <p>WH765 Snubber Driver</p>	 <p>WH766 Snubber Receiver</p>
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STORM FRONT™ WINDOWS

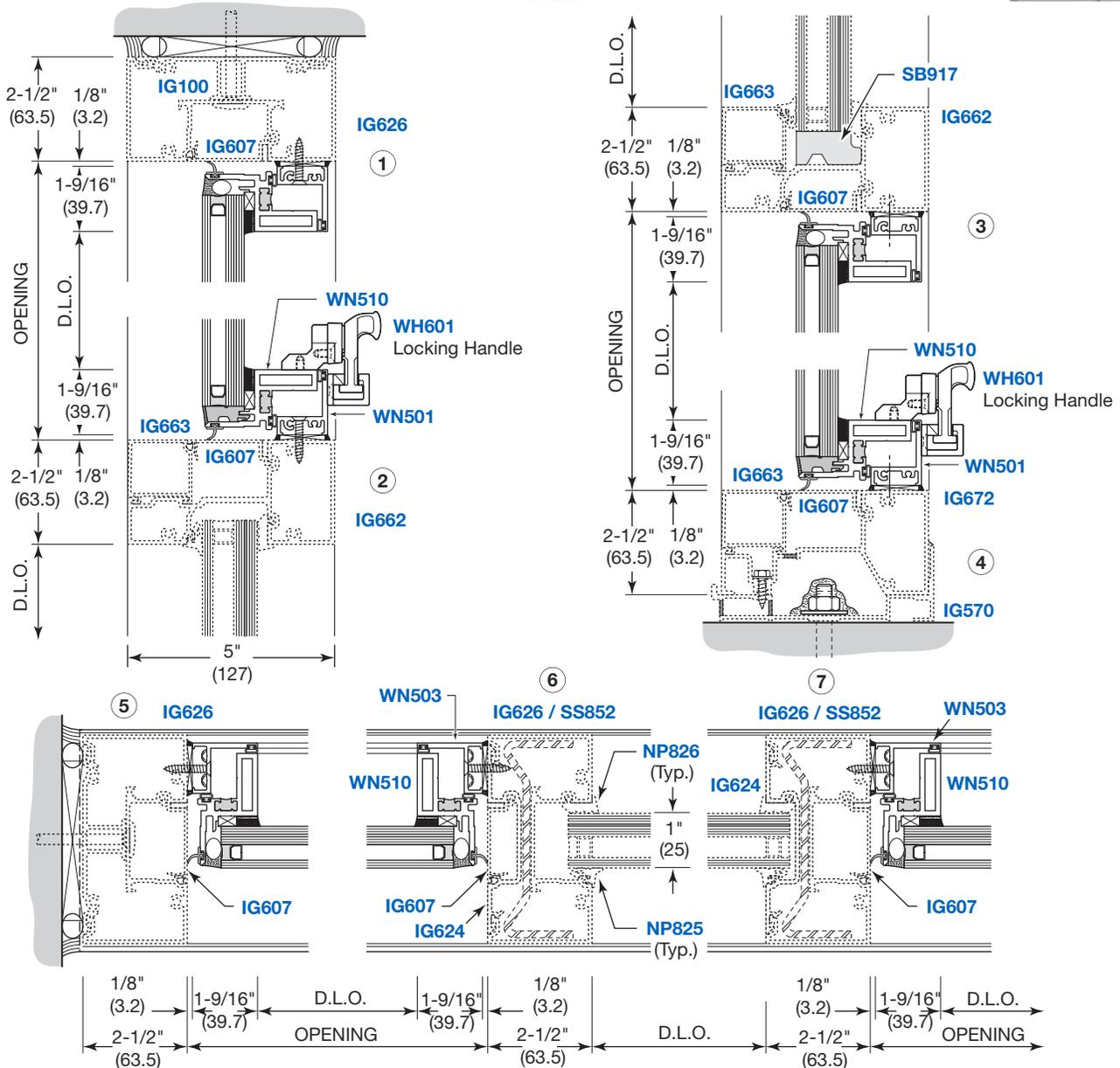
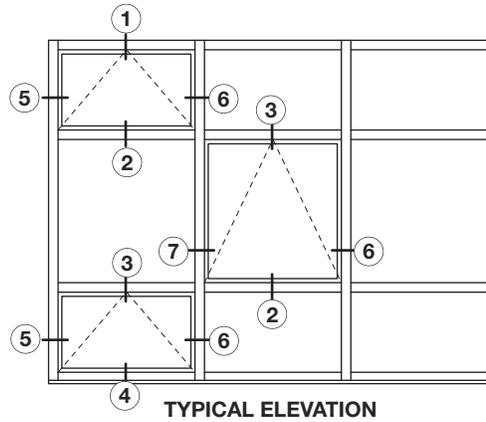
Typical Details

Hurricane Resistant Concealed Vent Window • Series IW7500

FOR 1" (25) GLAZING

Series IW7500 Concealed Vent Window
With Storm Front™ IG600 Storefront System

For specifications, details, and testing data go to usalum.com



NOT TO SCALE

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STORM FRONT™ WINDOWS

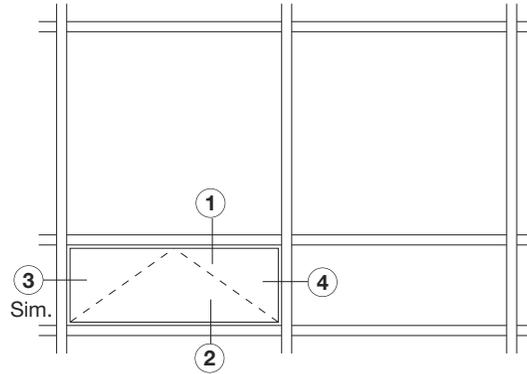
Typical Details

Hurricane Resistant Concealed Vent Window • Series IW7500

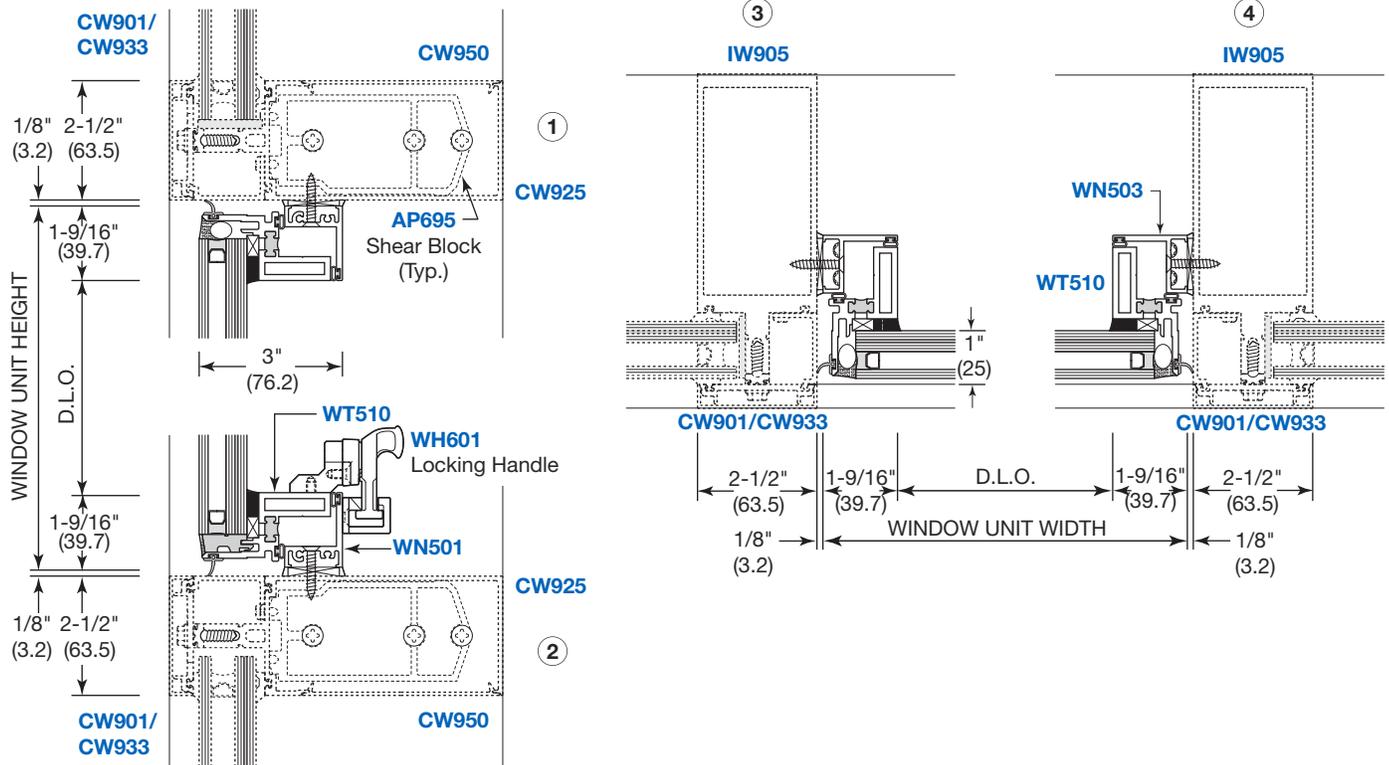
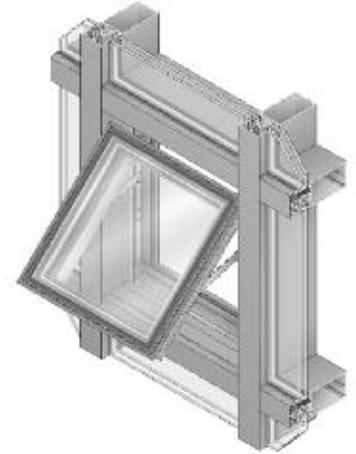
FOR 1" (25) GLAZING

Series IW7500 Concealed Vent Window
 With Storm Wall® IW3250 Curtain Wall System

For specifications, details, and testing data go to usalum.com



TYPICAL ELEVATION



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STORM FRONT™ WINDOWS

Special Features

FOR 1" (25) GLAZING

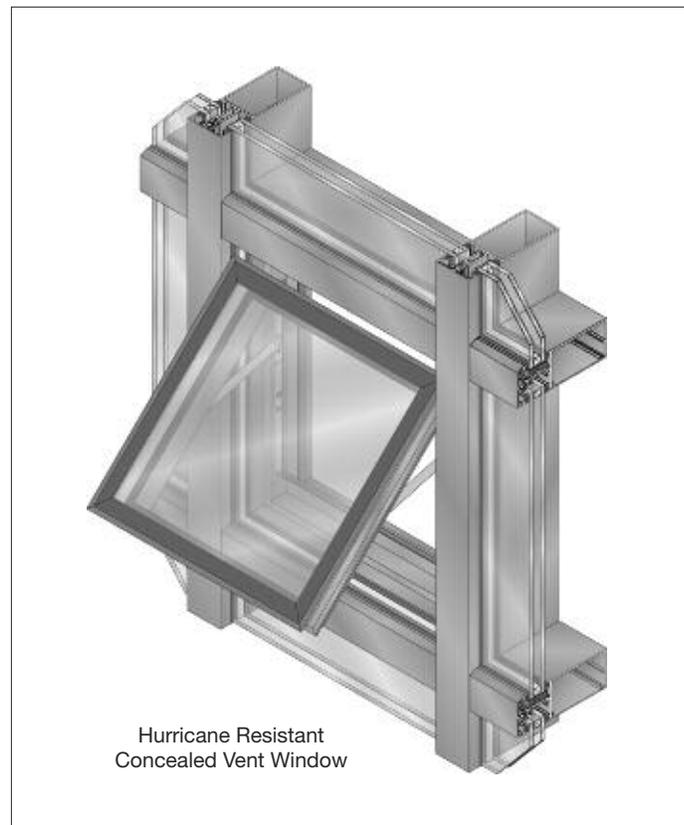
**Hurricane Resistant
Concealed Vent Window**
• Series IW7600



Storm Front™

The Series IW7600 Concealed Vent is a minimal sightline window perfect for use in storefront, ribbon window, and curtain wall openings. Standard hardware includes a single Multi-Point Locking Handle. As with all of our operable windows, vent construction starts with tubular vent components that are mitered, reinforced with corner keys, and crimped at all corners. When closed, the vent is sealed to the frame with bulb gaskets ensuring an air tight seal. The high performance IW7600 Window meets the stringent requirements of the Miami/Dade County protocol for maximum protection from high winds and wind-borne debris.

- AAMA CW100-Rated
- Accepts 1" (25) Glazing
- Minimal Sightline
- Structural Silicone Glazed
- Euro Multi-Point Locking Handles
- Use With Storefront or Curtain Wall
- Thermally Broken
- U-Factor 0.56 to 0.34
- Reinforced Corner Construction
- Made in the U.S.A.



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STORM FRONT™ WINDOWS

Typical Details

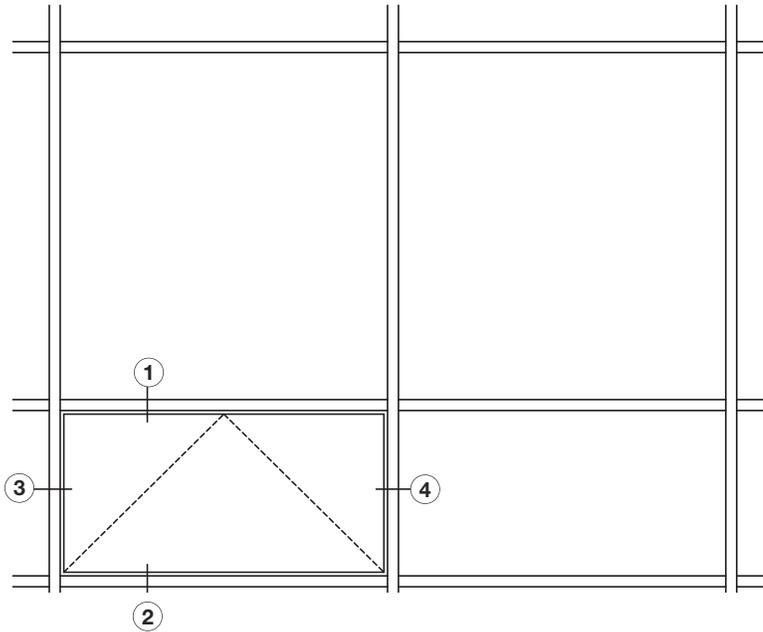
FOR 1" (25) GLAZING

Series IW7600 Concealed Vent Window With Storm Front™ IG600 Storefront System

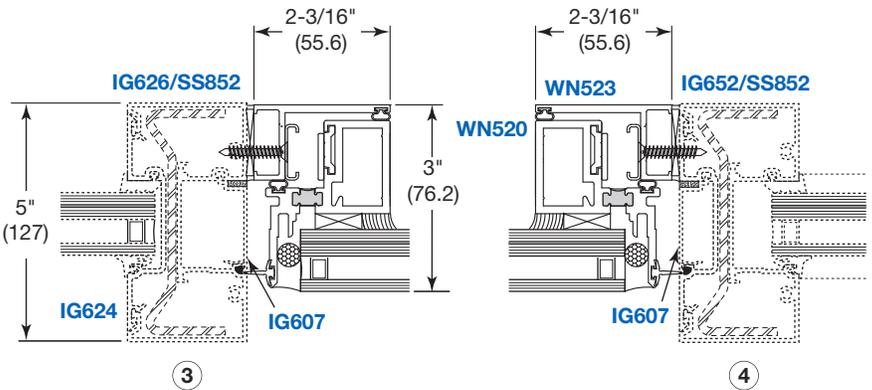
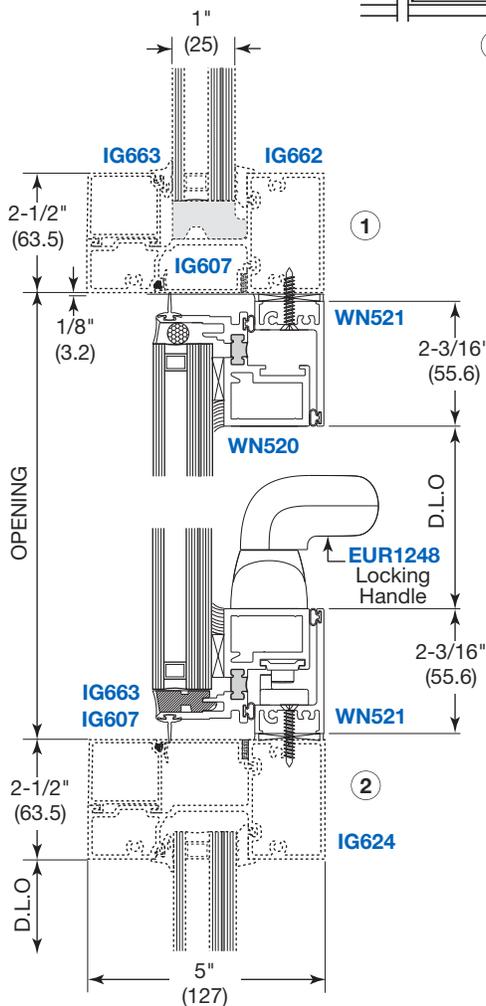
Hurricane Resistant Concealed Vent Window

• Series IW7600

For specifications, details, and testing data go to usalum.com



TYPICAL ELEVATION



EURO MULTI-POINT LOCKING HANDLES

PART NO.	FINISH
EUR1248W	Powder Coat White
EUR1248BL	Powder Coat Black
EUR1248SN	Satin Nickel
EUR1248SC	Satin Chrome



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STORM FRONT™ WINDOWS

Specifications

Hurricane Resistant Single Hung, Sliding, and Fixed Windows

- Series IW8000
- Series IW8100
- Series IW8200

SECTION 08 51 13 ALUMINUM WINDOWS

QUALITY ASSURANCE

Drawings and specifications are based on Series IW8000 Single Hung, IW8100 Fixed, or IW8200 Horizontal Sliding (*Specify*) CW60 Hurricane Resistant Thermal Windows as manufactured by U.S. Aluminum. Whenever substitute products are to be considered, supporting technical literature, samples, drawings, and performance data must be submitted 10 days prior to bid in order to make a valid comparison of the products involved. Test reports certified by an AAMA independent test laboratory must be made available upon request.

PART 1 GENERAL

1.01 Work Included

A. Furnish and install aluminum architectural windows complete with hardware and related components as shown on drawings and specified in this section. (*Specify glass and glazing in this section if window assemblies are to be glazed by the window manufacturer. If glazing is to be done by a different contractor, glass and glazing should be specified in Section 08 80 00.*)

B. 1-7/32" (31) Thick Glass and Glazing

1. All units shall be factory glazed.
- OR
1. Reference Section 08 80 00 for Glass and Glazing.

List work and materials related to this section but specified in other sections.

1.02 Related Work

Section 08 40 00 - Entrances and Storefronts
 Section 08 44 00 - Glazed Curtain Walls
 Section 08 50 00 - Windows

1.03 Testing and Performance Requirements

A. Test Units

1. Air, water, and structural test unit shall conform to requirements set forth in ANSI/AAMA/NWWDA 101 I.S. 2-97 and AAMA 910-93 or CSA A440.
2. Thermal test unit sizes shall be 47-1/4" x 59" (1200 x 1500) for Series IW8000 and IW8100, 59" x 47-1/4" (1500 x 1200) for Series IW8200. Unit shall consist of a single hung, fixed or horizontal sliding window.

B. Test Procedures and Performances

1. Windows shall conform to all AAMA/ANSI/NWWDA-101 I.S. 2-97 and AAMA 910-93 or CSA A440 requirements for the window type referenced in 1.01.B. In addition, the following specific performance requirements shall be met.
2. Air Infiltration Test - With ventilators closed and locked, test unit in accordance with ASTM E 283-91 at a static air pressure difference of 6.24 psf. Air infiltration shall not exceed .30 cfm per foot of crack.
3. Water Resistance Test - With ventilators closed and locked, test unit in accordance with ASTM E 331-96/ASTM E 547 at a static air pressure difference of 12 psf. There shall be no uncontrolled water leakage.
4. Uniform Load Deflection Test - With ventilators closed and locked, test unit in accordance with ASTM E 330-97 at a static air pressure difference of 90 psf positive and negative pressure. No member shall deflect over L/175 of its span.
5. Condensation Resistance Test (CRF) - With ventilators closed and locked, test unit in accordance with AAMA 1503. Condensation Resistance Factor (CRF) shall not be less than 49 for Series IW8100 and IW8200. Not less than 50 for Series IW8000.

6. Thermal Transmittance Test (Conductive U-Value) -

With ventilators closed and locked, test unit in accordance with NFRC 100 and AAMA 1503. Conductive thermal transmittance (U-Value) for Series IW8000 and IW8200 Windows shall have a range between 0.35 to 0.56 BTU/hr/ft²/°F and Series IW8100 Windows shall have a range between 0.33 to 0.56 BTU/hr/ft²/°F.

7. AAMA CW60 Rating Testing Procedures -

- AAMA/WDMA/CSA 101/I.S.2/A440-0.8 - Laboratory Performance Testing.
- AAMA 503-08 - Newly Installed Fenestration Products.
- AAMA 511-08 - Installed Fenestration Products After 6 Months.

8. Hurricane Resistant Testing as per Miami/Dade County Protocols TAS 201, 202, and 203.

1.04 Quality Assurance

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.05 or 11.15 of CSA A440.
- B. Test reports shall be accompanied by the window manufacturer's letter of certification, stating the tested window meets or exceeds the referenced criteria for the appropriate AAMA/NWWDA 101/I.S.2-97 and AAMA 910-93 or CSA A440 window type.

1.05 Submittals

- A. Contractor shall submit shop drawings, finish samples, test reports, and warranties.

Specifications

Hurricane Resistant Single Hung, Sliding, and Fixed Windows

- Series IW8000
- Series IW8100
- Series IW8200

SECTION 08 51 13 ALUMINUM WINDOWS

1.06 Warranties

A. Total Window System

1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total window installation which includes that of the windows, hardware, glass (including insulating units), glazing, anchorage and setting system, sealing, flashing, etc., as it relates to air, water, and structural adequacy as called for in the specifications and approved shop drawings.

PART 2 PRODUCTS

2.01 Materials

A. Aluminum

1. Extruded aluminum shall be 6063-T5 alloy and tempered.

B. Hardware

1. Series IW8000 and IW8200 Windows have spring loaded self-locking latches as supplied by U.S. Aluminum.

C. Weatherstrip

1. For Series IW8000 and IW8200 Windows weatherstrip shall be fin seal or equal. For Series IW8100 Windows all weatherstrip shall be E.P.D.M.

D. Thermal Barrier

1. Barrier material shall be poured-in-place two part polyurethane. To ensure that composite strength remains unaltered during thermal cycling, a mechanical bond between the aluminum and the thermal filling shall be created by mechanically abrading the extrusion thermal cavity prior to filling with the polyurethane polymer. A non-structural thermal barrier is unacceptable.
2. Specified hardware shall not bridge the thermal barrier.

E. Glass

1. Insulating glass shall be 1-7/32" (31) as manufactured by () consisting of () exterior, () air spacer, and () interior.

2.02 Fabrication

A. General

1. All primary aluminum frame, extrusions or vent extrusions shall have a minimum wall thickness of .062 (1.57)
2. Depth of frame 4-1/2" (114.3) for 1-7/32" (31) glazing.

B. Frame - Frame components shall be mechanically fastened.

C. Ventilator (Series IW8000 and IW8200)

1. All vent extrusions shall be notched .

D. Screens (Series IW8000 and IW8200)

1. Screen frames shall have springs locking the screen in place.
2. Screen mesh shall be aluminum or fiberglass. (if applicable)

E. Glazing - All units shall be either shop or field glazed.

F. Finish

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain... *(Specify one of the following)*

____ #11 Clear anodic coating

____ #22 Dark Bronze anodic coating

____ #33 Black anodic coating

A Fluoropolymer paint coating conforming with the requirements of AAMA 2605. Color shall be *(Specify a U.S. Aluminum standard color)*.

PART 3 EXECUTION

3.01 Inspection

A. Job Conditions

1. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface, and are in accordance with approved shop drawings.

3.02 Installation

A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.

B. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.

C. Adjust windows for proper operation after installation.

D. Furnish and apply sealants to provide a weather tight installation at all joints and intersections and at opening perimeters.

3.03 Protection and Cleaning

A. After completion of window installation, windows shall be inspected, adjusted, put into working order and left clean, free of labels, dirt, etc. Protection from this point shall be the responsibility of the general contractor.

STORM FRONT™ WINDOWS

Special Features

FOR 1-7/32" (31) GLAZING

**Hurricane Resistant
Single Hung Window**

• Series IW8000



As part of the 8000 Series of heavy commercial windows, the IW8000 Hurricane Resistant Single Hung Window offers a 4-1/2" (114) deep frame designed to match typical building conditions, including our entrances and storefronts. An efficient, thermally insulated frame accepts 1-7/32" (31) glazing, with extruded pulls at the interlock and bottom rail. The window features a self-locking latch and Class 5 balances for ease of operation. Accessories such as Mulling Bars, Subsills, Head and Jamb Channels are available.

The high performance IW8000 Window is both AAMA CW60 Rated and NFRC Certified, and meets the stringent requirements of the Miami/Dade County Protocols TAS 201, 202, and 203 for maximum protection from high winds and wind-borne debris.

- AAMA CW60 Rated Window
- Accepts 1-7/32" (31) Glazing
- 4-1/2" (114) Deep Frame to Match Entrances and Storefronts
- Thermally Insulated-NFRC Certified
- Choice of Block or Fin Frame
- Class 5 Balance for Ease of Operation
- Available in an Array of Architectural Coatings and Anodized Finishes
- Made in the U.S.A.



Hurricane Resistant
Single Hung Window

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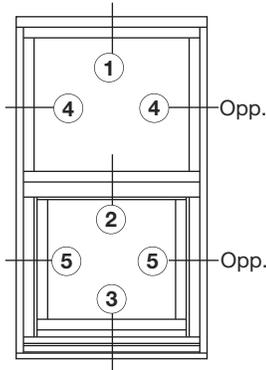
STORM FRONT™ WINDOWS

Typical Details

FOR 1-7/32" (31) GLAZING

Hurricane Resistant Single Hung Window

• Series IW8000



TYPICAL ELEVATION

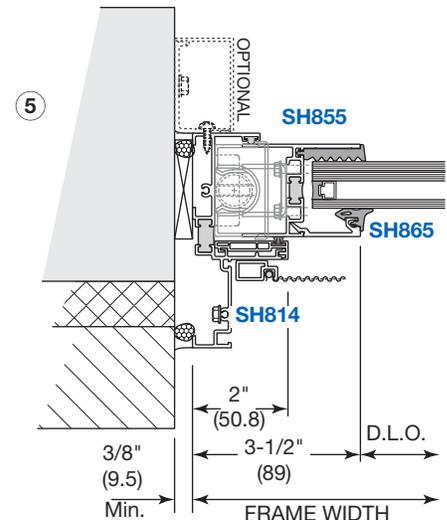
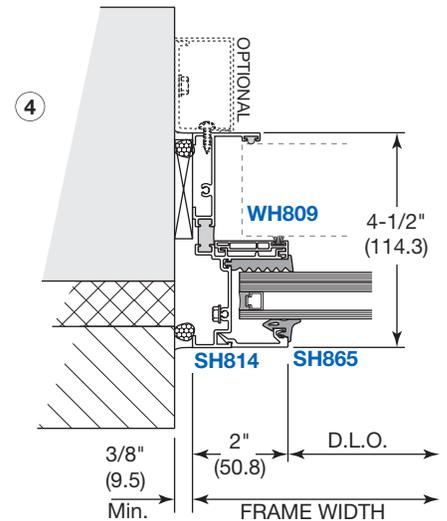
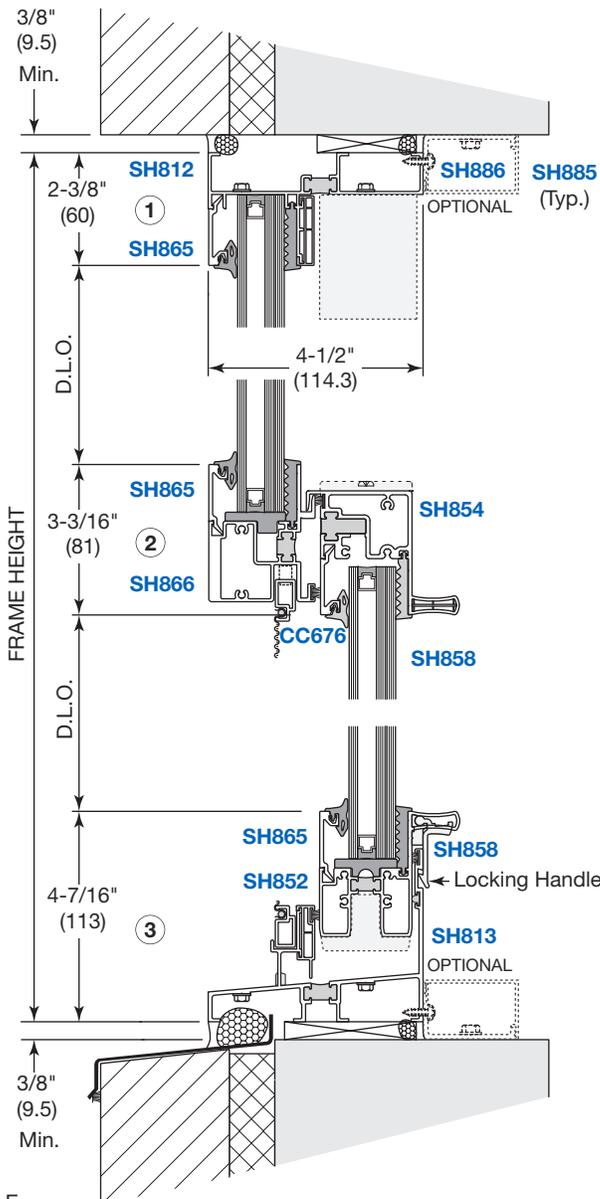
Block Frame
Installation Method Shown

Maximum Frame Size
65" x 91" (1651 x 2311)

A complete set of details
in DWG format is available
at usalum.com

Meets or Exceeds Specifications:

- AAMA/WDMA/CSA 101/1.S.2/A 440-08
 - ASTM E 283-04
 - ASTM E 330-02
 - ASTM E 331-00
 - AAMA 1503
- NFRC - NFRC 100-2004
 - NFRC 200-2004
 - NFRC 500-2004
- MIAMI/DADE COUNTY PROTOCOLS
 - TAS 201
 - TAS 202
 - TAS 203



NOT TO SCALE

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STORM FRONT™ WINDOWS

Special Features

FOR 1-7/32" (31) GLAZING

Hurricane Resistant Horizontal Sliding Window

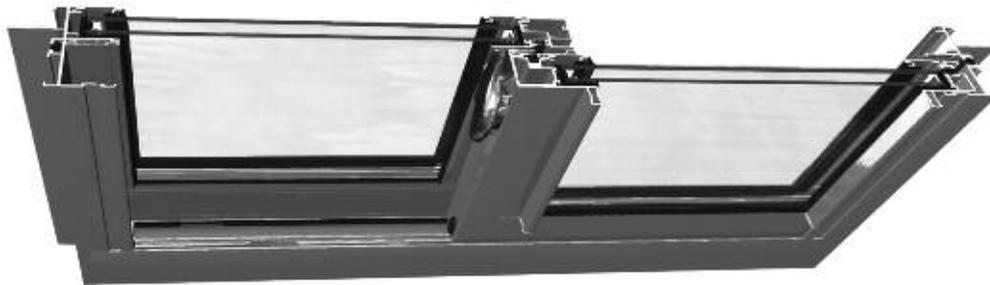
• Series IW8200



Storm Front™

The Series IW8200 Horizontal Sliding Window offers that rare combination of smooth operation, durability, and toughness to meet stringent requirements of the Miami/Dade County Protocols TAS 201, 202, and 203 for maximum protection from high winds and wind-borne debris.

- Tested to AAMA CW60
- Accepts 1-7/32" (31) Glazing
- Thermally Insulated-NFRC Certified
- U-Factors as Low as 0.34
- 4-1/2" (114) Deep Frame to Match Typical Building Conditions
- Choice of Block or Fin Frame
- Dry Glazed
- Self-Locking Latch and Tandem Adjustable Rollers for Ease of Operation
- Accessories Such as Screens, Mulling Bars, Subsills, Head and Jamb Channels are Available
- Available in an Array of Architectural Coatings and Anodized Finishes
- Made in the U.S.A.



Hurricane Resistant Horizontal Sliding Window



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 Online crlaurence.com By Phone (800) 421-6144

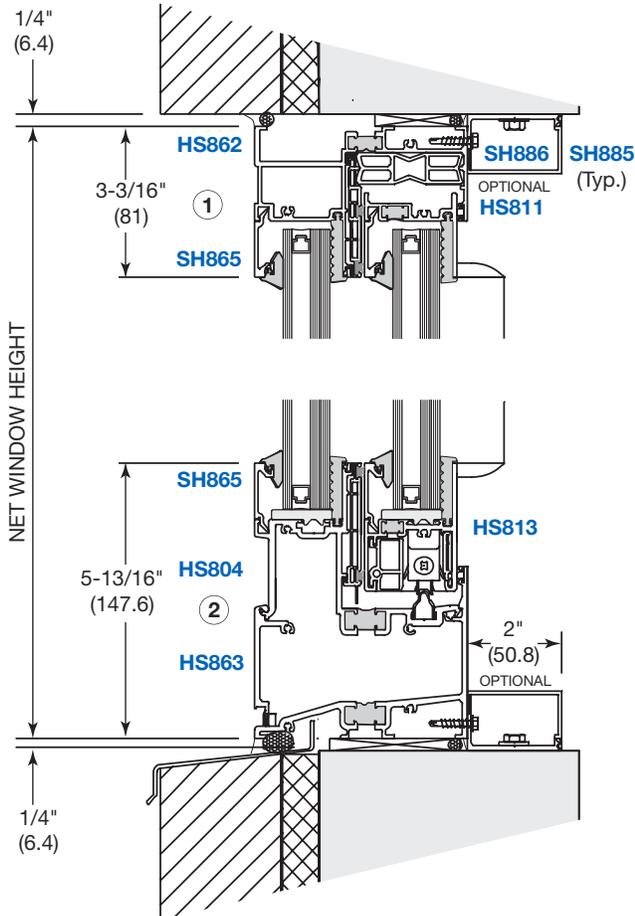
STORM FRONT™ WINDOWS

Typical Details

FOR 1-7/32" (31) GLAZING

Hurricane Resistant Horizontal Sliding Window

• Series IW8200



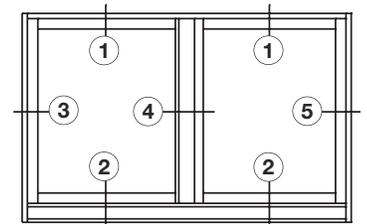
Meets or Exceeds Specifications:

- AAMA/WDMA/CSA 101/1.S.2/A 440-08
 - ASTM E 283-04
 - ASTM E 330-02
 - ASTM E 331-00
 - AAMA 1503
- NFRC - NFRC 100-2004
 - NFRC 200-2004
 - NFRC 500-2004
- MIAMI/DADE COUNTY PROTOCOLS
 - TAS 201
 - TAS 202
 - TAS 203

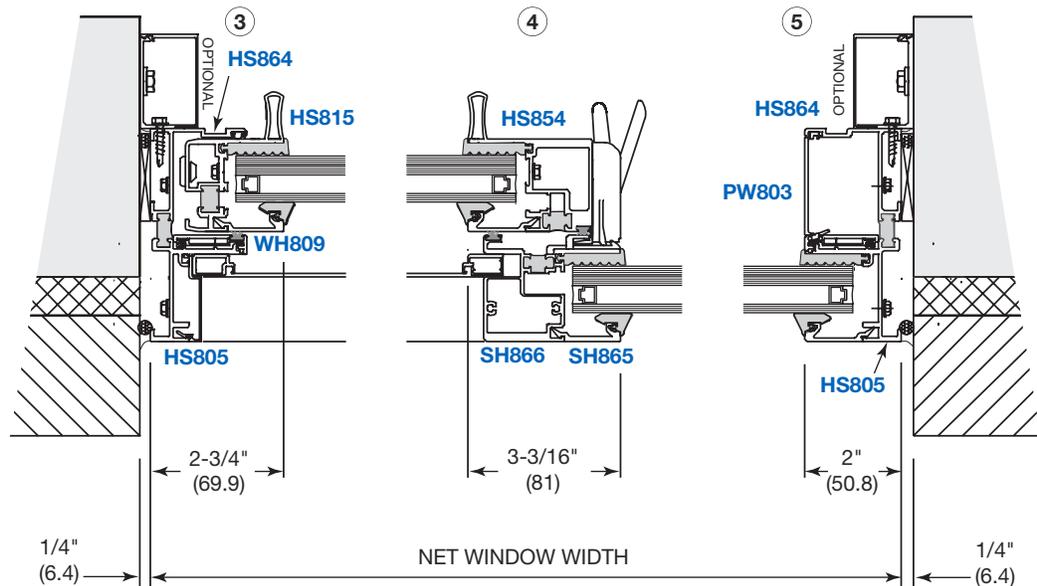
Block Frame
 Installation Method Shown

Maximum Frame Size
 96" x 60" (2438 x 1524)

A complete set of details
 in DWG format is available
 at usalum.com



TYPICAL ELEVATION



NOT TO SCALE

Online usalum.com By Phone (800) 262-5151
 Online crlaurence.com By Phone (800) 421-6144

STORM FRONT™ WINDOWS

Special Features

FOR 1-7/32" (31) GLAZING

The Series IW8100 Fixed Window offers that rare combination of durability and toughness to meet stringent requirements of the Miami/Dade County Protocols TAS 201, 202, and 203 for maximum protection from high winds and wind-borne debris.

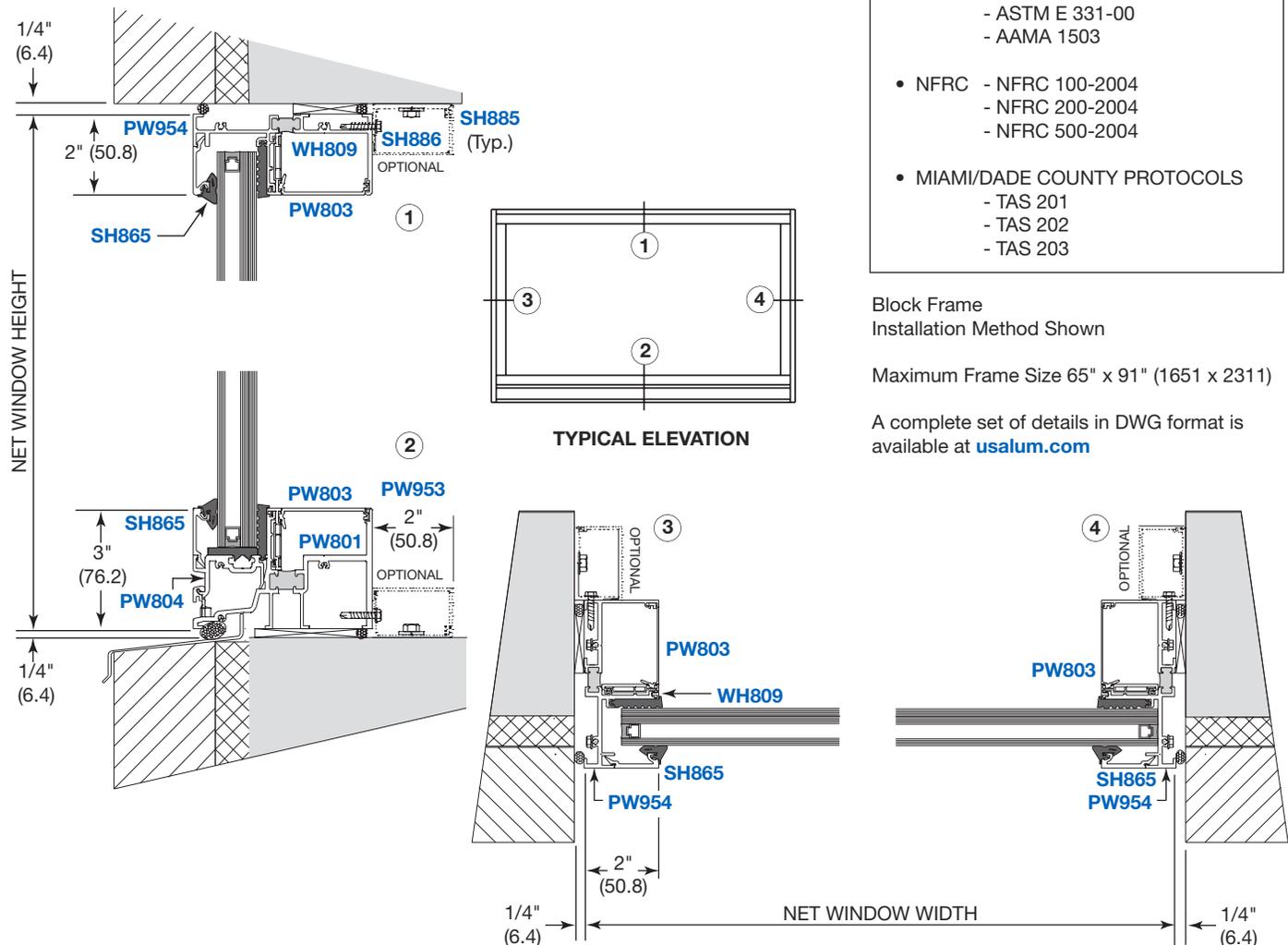
- Tested to AAMA CW60
- Accepts 1-7/32" (31) Glazing
- Thermally Insulated-NFRC Certified
- U-Factors as Low as 0.34
- 4-1/2" (114) Deep Frame to Match Typical Building Conditions
- Choice of Block or Fin Frame
- Accessories Such as Mulling Bars, Subsills, Head and Jamb Channels are Available
- Available in an Array of Architectural Coatings and Anodized Finishes
- Made in the U.S.A.

Hurricane Resistant Fixed Window

• Series IW8100



Typical Details



Meets or Exceeds Specifications:

- AAMA/WDMA/CSA 101/1.S.2/A 440-08
 - ASTM E 283-04
 - ASTM E 330-02
 - ASTM E 331-00
 - AAMA 1503
- NFRC - NFRC 100-2004
 - NFRC 200-2004
 - NFRC 500-2004
- MIAMI/DADE COUNTY PROTOCOLS
 - TAS 201
 - TAS 202
 - TAS 203

Block Frame
Installation Method Shown

Maximum Frame Size 65" x 91" (1651 x 2311)

A complete set of details in DWG format is available at usalum.com

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