



ALL WEATHER
ARCHITECTURAL ALUMINUM

SERIES 6200 HORIZONTAL SLIDING WINDOW SYSTEM

PRODUCT SPECIFICATIONS | EXTRUSION DETAILS | TEST REPORTS

INTRODUCTION

Series 6200 product line uses 6063 extruded aluminum age hardened to a T-6 rating for strength and durability. The frame and panels use the pour-and-debridge method for thermal break.

The pour and debridge thermal break profiles are extruded as a single extrusion with a cavity for the thermal break material. Once the profile is extruded, the cavity is filled with a two part polyurethane that has a low coefficient of thermal conductivity. After the polyurethane has cured, a saw is used to debridge the profile by ripping the aluminum web of the cavity. The profile is now thermally broken, providing both improved thermal performance as well as improved condensation resistance.

The Series 6200 Horizontal Sliding Window is available in the following finishes:

- Class I Clear Anodized**
- Class I Bronze Anodized**

** *Indicates Finishes In Stock.*

STRUCTURAL TESTING

Series 6200 horizontal sliding window have been tested to AAMA/WDMA/CSA101/1.5.2/A440-17 standards as listed below: (Please see test reports located in the back of this section for window sizes.)

- Series 6200 Thermal Break Horizontal Sliding Window XO – CW35
- Series 6200 Thermal Break Horizontal Sliding Window XOX– LC30

All Weather has comprehensive files containing all historical testing. Each of the tests in the proceeding list are current, however, our archived testing may be more specific for your particular project and will be provided upon request.

ACOUSTICAL TESTING

All Weather has completed acoustical testing on several window configurations and glass make-ups, including the test results listed below. Test reports reports available upon request. Additional testing has been performed and test results/ reports can be provided upon request.

- STC 34 / OITC 28 – XO Configuration ¼" over ⅜" with 1" OA
- STC 33 / OITC 29 – XO Configuration ¼" over ⅝" Lami with 1" OA
- STC 35 / OITC 30 – XO Configuration ⅜" over ⅝" Lami with 1" OA

THERMAL TESTING

Series 6200 horizontal sliding window has been simulated and tested according to NFRC 100/200/500.

- U-factor as low as .26 with triple glaze (1 ¼" OA)
- U-Factor as low as .32 with dual glaze (1" OA)

CONSTRUCTION

Corners of frame, vent and fixed panels are square cut and screwed together for structural integrity. All muntin and other intermediate bars are firmly attached to their cross joints and their abutting sash sections. The frame sill contains weep provisions. All surfaces to be glazed are marine glazed.

HARDWARE

Handles

Flush mount pull handle with a positive action lock (PAL)

Rollers

Fapim Hockey Rollers.

SCREENS

Extruded aluminum flat screen. Flat screens are made with extruded screen channel with mitered corners and an internal corner key.

GLAZING

The Series 6200 is available with 1" and 1.25" OA insulated glass units to yield a wide range of energy performance as needed.

WEATHER-STRIPPING

The Series 6200 horizontal sliding window leverages the strengths of both bulb-type and pile-type weatherstripping to ensure low air infiltration and provide optimal water penetration prevention while maintaining a smooth operation.

INSTALLATION GUIDELINES

- Units ship with frame assembled and glazed panels installed.
- All windows must be installed in prepared openings in accordance with AAMA recommendations and the below-listed manufacturers' recommendations.
- If shop drawings are required, please refer to approved shop drawings for installation.
- Each unit must be installed level, plumb and square with a 0.5" clearance on the jambs and the header of the door.
- For nail-on applications the header must not be nailed. You may place a nail 0.5" above the fin and bend it over the fin, to allow for header deflect.

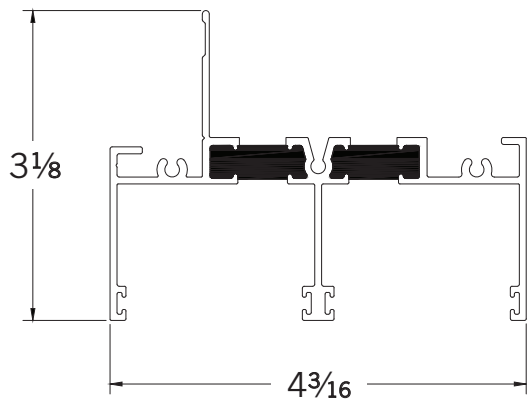
- Remove wet plaster, mortar, stucco, and cement immediately.
(Note: windows should only be cleaned with mild soap and water.)
- Do not set items on the sill or use it for any other purpose.
- In nail-on applications, a bead of caulking material should be applied to the inside nail-on fin just before installation to insure a water-tight seal between the building and the window.
- Any attachment screws or bolts should be sealed during the process of installation.
- After installation is completed, building paper and stucco wire, if a stucco application, should overlap the window nail-on flange.

CARE & MAINTENANCE

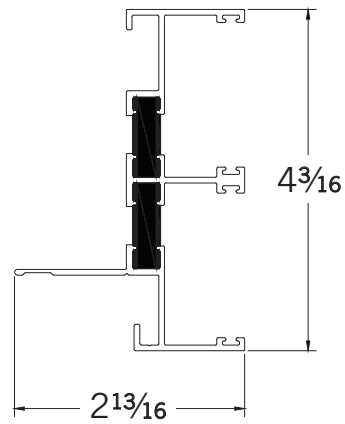
- Window should be kept free of all dust, dirt, paint, and plaster.
- The sill should be kept clean at all times. A vacuum cleaner with a crevice attachment is recommended.
- Windows should only be cleaned with mild soap and water.
- **Caution:** Damage will occur to the finish and to the sealed glass unit if solvents, petroleum products, or caustic chemicals, such as acetone or paint thinner are used to clean window frames. Damage caused by this type of abuse is not covered under warranty.



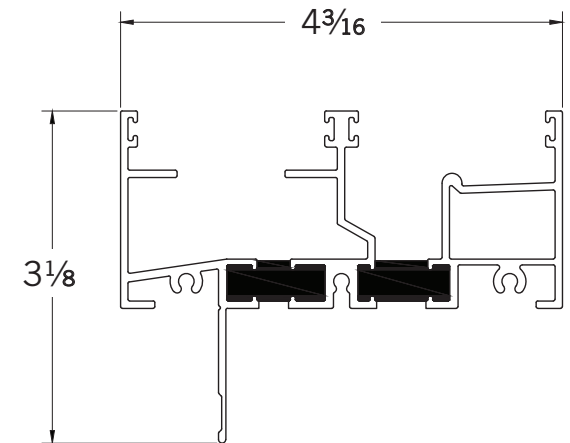
1111T FRAME HEAD



1113T FRAME JAMB

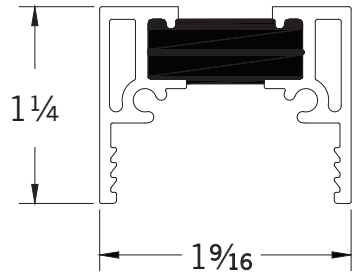


1114T FRAME SILL

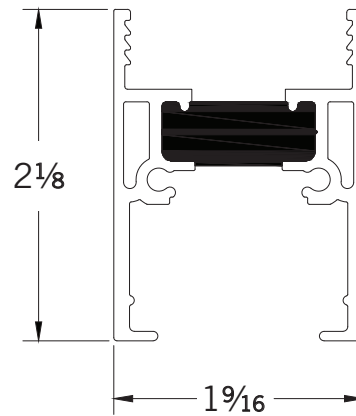




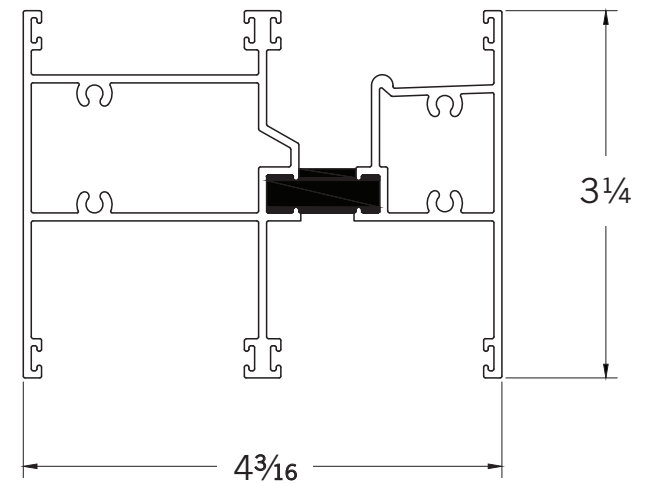
1101T TOP RAIL



1102T BOTTOM RAIL

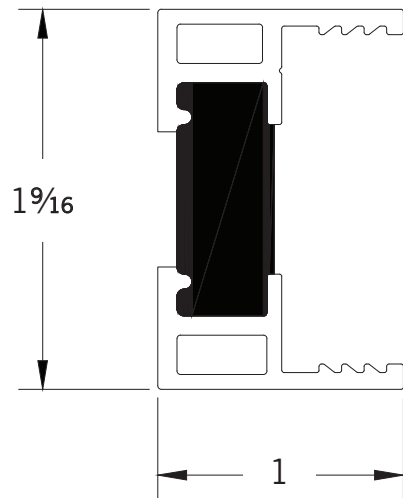


1191T TRANSOM BAR

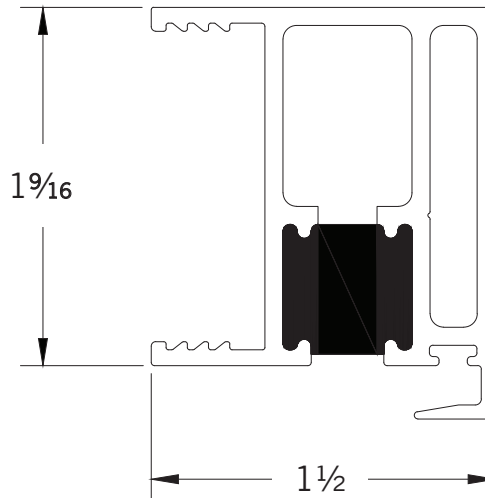




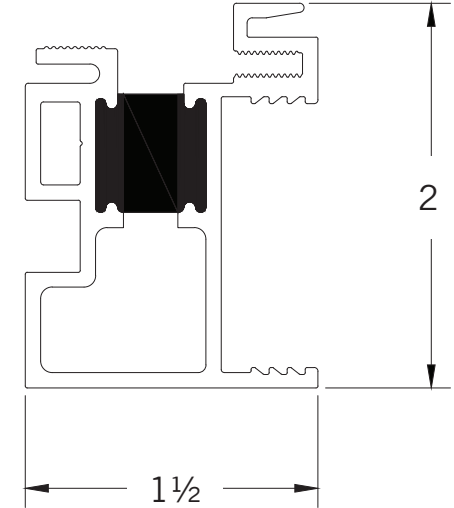
1103T LEAD STILE



1105T ACTIVE INTERLOCK

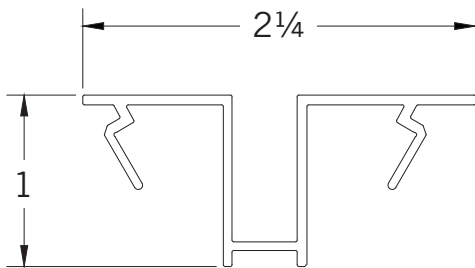


1104T INACTIVE INTERLOCK

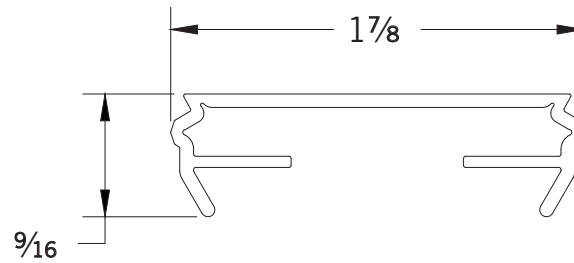




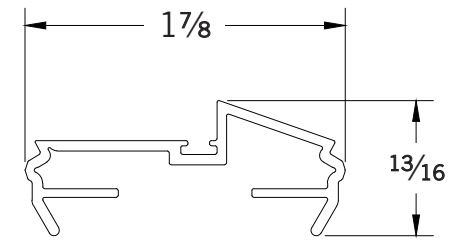
1122T SCREEN TRIM CAP



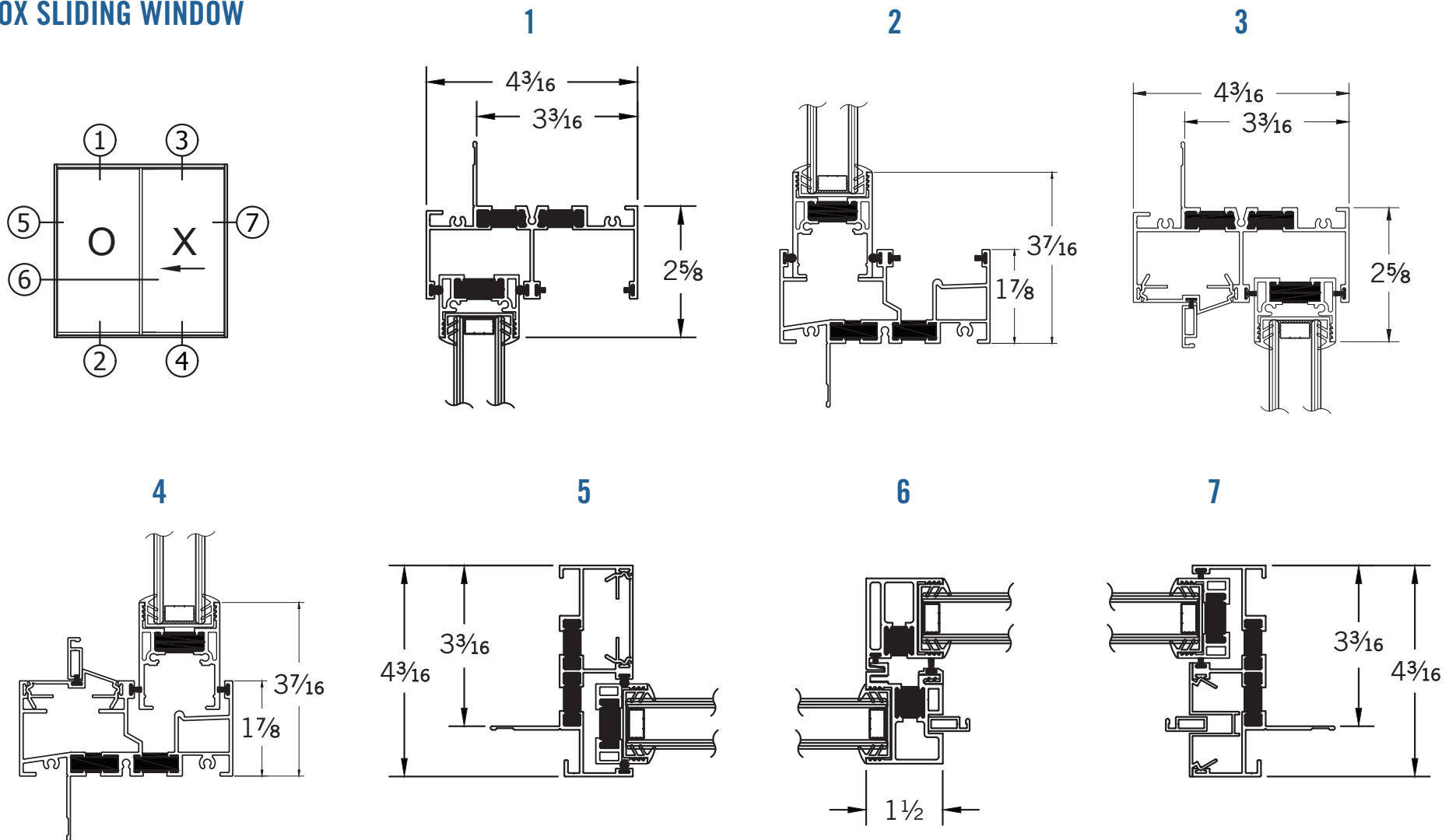
1123T TRIM CAP



**1124T HEAD AND SILL
SCREEN TRIM CAP**

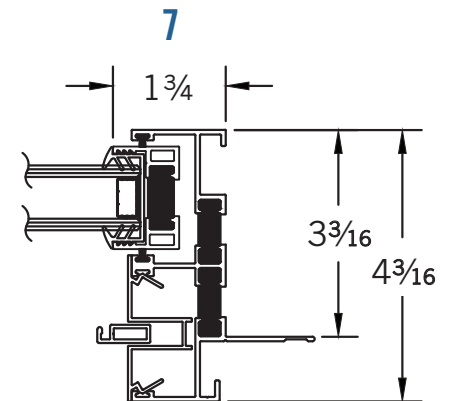
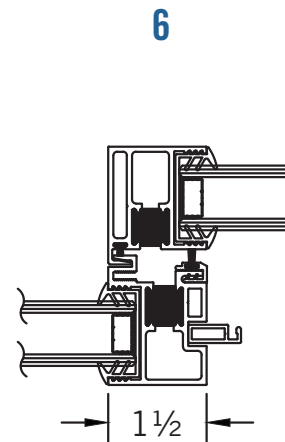
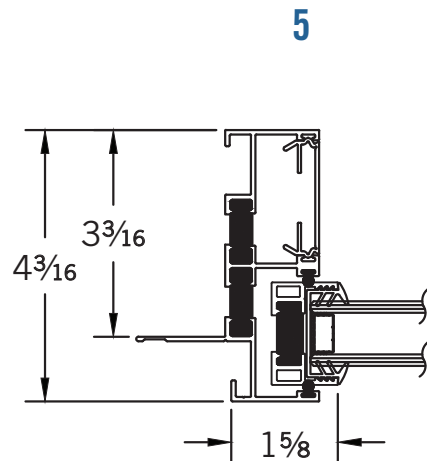
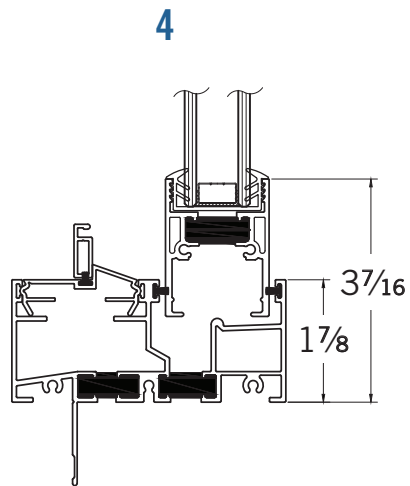
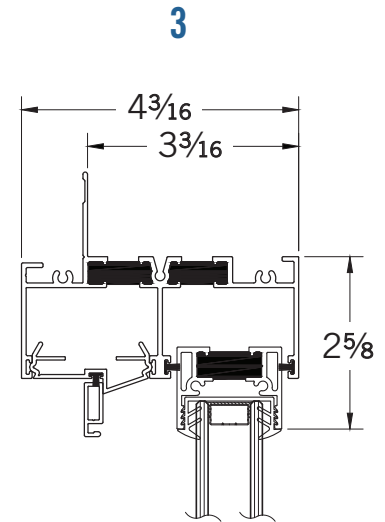
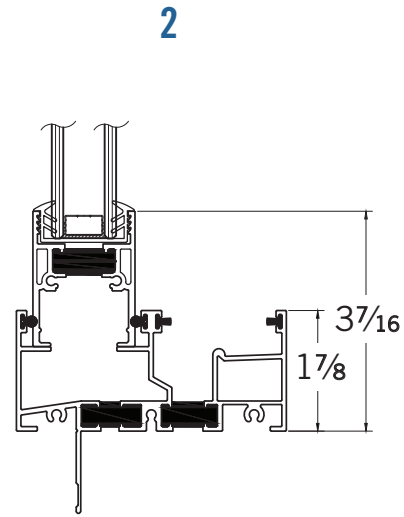
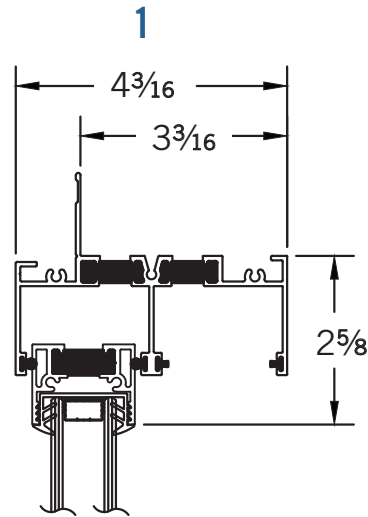
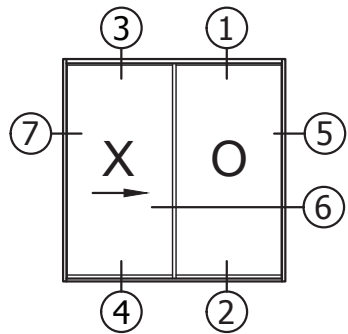


OX SLIDING WINDOW

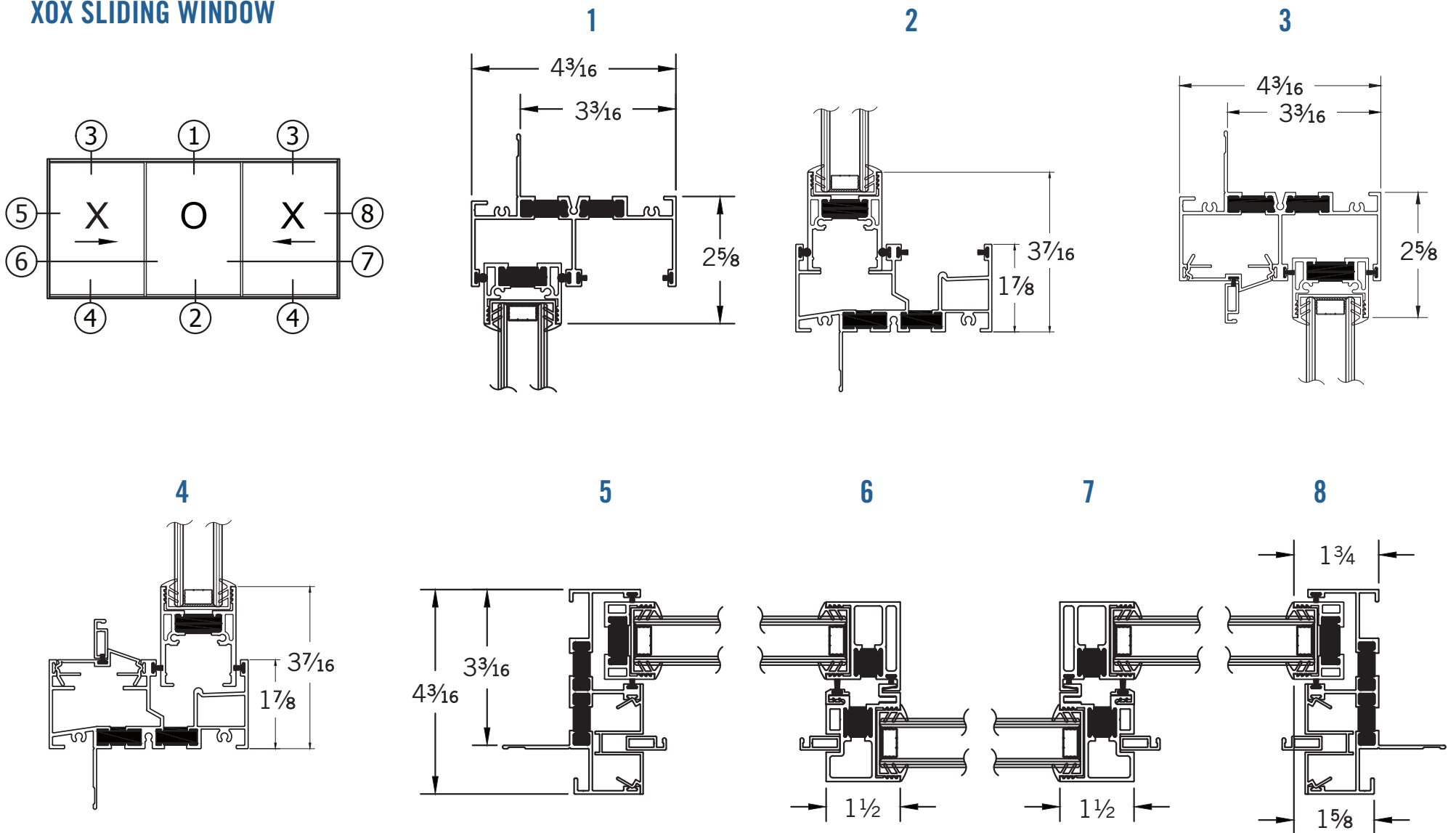




XO SLIDING WINDOW



XOX SLIDING WINDOW



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ALL WEATHER ARCHITECTURAL ALUMINUM TEST REPORT

SCOPE OF WORK

AAMA/WDMA/CSA 101/I.S.2/A440 TESTING ON SERIES 6200 HORIZONTAL SLIDING WINDOW, NOMINAL SIZE 71 X 59

REPORT NUMBER

M9474.01-301-44 RO

TEST DATES

10/28/21 – 11/01/21

ISSUE DATE

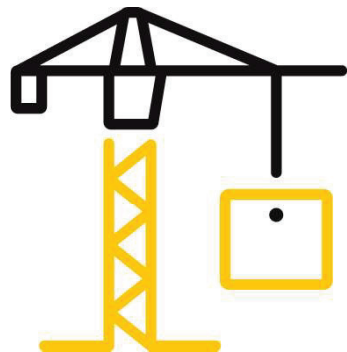
05/27/22

PAGES

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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2804 (01/15/21)
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Facsimile: 717-764-4129
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TEST REPORT FOR ALL WEATHER ARCHITECTURAL ALUMINUM

Report No.: M9474.01-301-44 RO

Date: 05/27/22

REPORT ISSUED TO

ALL WEATHER ARCHITECTURAL ALUMINUM

777 Aldridge Road
Vacaville, CA 95688

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by All Weather Architectural Aluminum to perform testing in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 on their Series 6200 Horizontal Sliding Window. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in Fresno, California. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends five years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

COMPLETED BY: Ricardo Cortez

TITLE: Technician

R. Cortez
Digitally Signed by: Ricardo Cortez

SIGNATURE:

DATE: 05/27/22

RC:ms

REVIEWED BY: Tyler Westerling, P.E.

TITLE: Operations Manager

T. Westerling
Digitally Signed by: Tyler Westerling

SIGNATURE:

DATE: 05/27/22

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TEST REPORT FOR ALL WEATHER ARCHITECTURAL ALUMINUM

Report No.: M9474.01-301-44 R0

Date: 05/27/22

SECTION 2

SUMMARY OF TEST RESULTS

TITLE	RESULTS
AAMA/WDMA/CSA 101/1.S.2/A440-17	Class CW – PG35; Size Tested: 1805 x 1500 mm (71 x 59 in) Type: HS
Design Pressure	±1680 Pa (±35.09 psf)
Air Infiltration	<0.1 L/s/m ² (0.06 cfm/ft ²)
Canadian Air Infiltration/Exfiltration Level	A3
Water Penetration Resistance Test Pressure	260 Pa (5.43 psf)

Reference must be made to Intertek B&C Report No. M9474.01-301-44, dated 05/27/22 for complete test specimen description and detailed test results.

SECTION 3

TEST SPECIFICATION(S)/METHOD(S)

The specimen was evaluated in accordance with the following:

AAMA/WDMA/CSA 101/1.S.2/A440-17 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights

The following test methods were used during testing:

ASTM E2068-00(2016), Standard Test Method for Determination of Operating Force of Sliding Windows and Doors

ASTM E283-04(2012), Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

ASTM E547-00(2016), Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference

ASTM E330/E330M-14, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

ASTM F842-17, Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact

ASTM E987-88(2017), Standard Test Methods for Deglazing Force of Fenestration Products



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Date: 05/27/22

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of four years from the test completion date.

The specimen was installed into a Douglas-Fir buck. The rough opening allowed for a 1/4" shim space and the exterior perimeter of the specimen was sealed to the test buck.

LOCATION	ANCHOR DESCRIPTION	ANCHOR SPACING
Head, Sill	#6 x 1-5/8" Philips flat head screw	4" from corners, 10" on center
Jamb	#6 x 1-5/8" Philips flat head screw	4" from corners, 11" on center

SECTION 5

EQUIPMENT

The following equipment was utilized to apply Forced Entry Resistance loading in accordance with ASTM F588:

EQUIPMENT	ASSET NUMBERS	CALIBRATION DUE DATE
Load Cell	63196	04/01/22
Stopwatch	64263	11/20/22

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Erick Dominguez	All Weather Architectural Aluminum
Meng Vang	Intertek B&C



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TEST REPORT FOR ALL WEATHER ARCHITECTURAL ALUMINUM

Report No.: M9474.01-301-44 R0

Date: 05/27/22

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Horizontal Sliding Window

Series/Model: Series 6200 Horizontal Slider

Product Sizes:

OVERALL AREA: 2.71 m ² (29.1 ft ²)	WIDTH		HEIGHT	
	Millimeters	Inches	Millimeters	Inches
Overall size	1805	71-1/16	1500	59-1/16
Operable panel	910	35-13/16	1455	57-5/16
Screen	924	36-3/8	1467	57-3/4

Frame Construction:

MEMBER	MATERIAL	DESCRIPTION
Head, Jambs, Sill, Fixed Interlock	Aluminum with Thermal Break	Extruded (Mat'l. 6063-T6)
JOINERY TYPE		DETAIL
All corners	Butted	Screwed and Sealed

Panel Construction:

MEMBER	MATERIAL	DESCRIPTION
Rails, Stiles	Aluminum with Thermal Break	Extruded (Mat'l. 6063-T6)
JOINERY TYPE		DETAIL
All corners	Butted	Screwed and Sealed

Reinforcement: No reinforcement was utilized.

Weatherstripping:

DESCRIPTION	QUANTITY	LOCATION
Foam bulb gasket	2 sets	Frame – Interior/Exterior edge of panel channel
Polypile with center fin	1 row	Fixed Interlock

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Date: 05/27/22

Glazing: No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.

GLASS TYPE	SPACER TYPE	LITE COMPOSITION	GLAZING METHOD	
1" IG	Black super spacer	3/16" annealed, Interior/exterior	Rail/stile installed around IG - Vinyl gasket perimeter	
LOCATION	QUANTITY	DAYLIGHT OPENING		GLASS BITE
Operable panel	1	910 x 1455	35-13/16 x 57-5/16	1/2"
Fixed Lite	1	910 x 1455	35-13/16 x 57-5/16	1/2"

Drainage:

METHOD	SIZE	QUANTITY	LOCATION
Slot	1" W by 1/8" H	2	Sill face
Weep with cover	1" W by 1/8" H	4	Sill channel – 4" from corners, 21" on center

Hardware:

DESCRIPTION	QUANTITY	LOCATION
Roller assembly	1 set	Operable sash – underside of bottom rail
Auto-lock + Keep	1 set	Midspan both Interlocks

Screen Construction:

FRAME MATERIAL	CORNER CONSTRUCTION	MESH TYPE	MESH ATTACHMENT METHOD
Aluminum	Plastic corner keys	Vinyl	Vinyl ridged spline

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TEST REPORT FOR ALL WEATHER ARCHITECTURAL ALUMINUM

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SECTION 8

TEST RESULTS

The temperature during testing was 22°C (71°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Operating Force, per ASTM E2068 Initiate Motion: Maintain Motion: Latches:	36 N (8 lbf) 36 N (8 lbf) 13 N (3 lbf)	180 N (40.47 lbf) max 115 N (25.85 lbf) max 100 N (22.48 lbf) max	
Air Leakage, Infiltration per ASTM E283 at 300 PA (6.27 psf)	<0.1 L/s/m ² (0.06 cfm/ft ²)	1.0 L/s/m ² (0.2 cfm/ft ²) max.	1, 2
Air Leakage, Exfiltration per ASTM E283 at 300 PA (6.27 psf)	<0.1 L/s/m ² (0.05 cfm/ft ²)	1.0 L/s/m ² (0.2 cfm/ft ²) max.	1, 2
Canadian Air Infiltration/Exfiltration Level	A2	0.5 L/s/m ² (0.1 cfm/ft ²) max.	
Water Penetration, per ASTM E547 at 260 Pa (5.43 psf)	Pass	No leakage	3
Uniform Load Deflection, per ASTM E330 Deflections taken at <u>Interlock</u> +1680 Pa (+35.09 psf) -1680 Pa (-35.09 psf)	4.44 mm (0.18") 4.06 mm (0.16")	8.13 mm (0.32") max. 8.13 mm (0.32") max.	4
Uniform Load Structural, per ASTM E330 Permanent set taken at <u>Interlock</u> +2520 Pa (+52.63 psf) -2520 Pa (-52.63 psf)	0.13 mm (0.01") 0.25 mm (0.01")	4.27 mm (0.17") max. 4.27 mm (0.17") max.	4
Forced Entry Resistance, per ASTM F842, Type: A - Grade: 20	Pass	No entry	
Deglazing, per ASTM E987 Operating direction, 320 N (70 lbf) Remaining direction, 230 N (50 lbf)	Pass Pass	Meets as stated Meets as stated	

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Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

Note 2: Test Date 10/28/21, Time: 10:09 AM (Air Note Only)

Note 3: With and without insect screen.

Note 4: Loads were held for 10 seconds.

Note 5: Tape and film were not used to seal against air leakage during structural testing.

SECTION 9

ALTERATIONS

No alterations were required.

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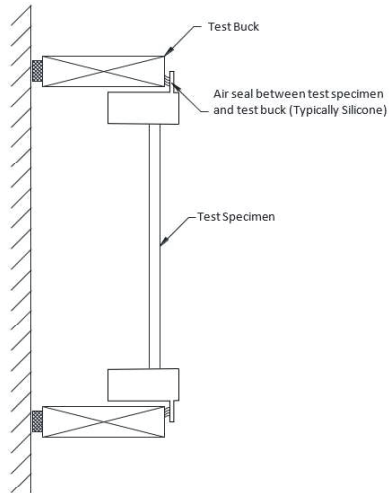
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SECTION 10

LOCATION OF AIR SEAL

The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.



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SECTION 11

CONCLUSION

The specimen tested successfully met the performance requirements for the following rating:

Class CW – PG35; Size Tested: 1805 x 1500 mm (71 x 59 in) Type: HS



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SECTION 12

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.