



SERIES 8000 THERMALLY BROKEN ALUMINUM SLIDING DOOR

PRODUCT SPECIFICATIONS | EXTRUSION DETAILS | TEST REPORTS



SERIES 8000 THERMALLY BROKEN ALUMINUM SLIDING DOOR



INTRODUCTION

Series 8000 product line uses 6063 extruded aluminum age hardened to a T-6 rating for strength and durability. The profiles for this series are extruded as two separate parts and are then joined into a single profile using thermal struts. The aluminum extrusions are knurled and then crimped along the thermal profile to ensure a tight grip. The finished profile is now thermally broken providing both improved thermal performance as well as improved condensation resistance. We currently are using two 14.6 mm offset thermal strut in the frame, 31.9 struts in the lead stiles, top and bottom, and a 24 strut on the interlocker.

The Series 8000 Sliding Door line is available in the following finishes:

- Class I Clear Anodized**
- Class I Bronze Anodized**
- Standard White
- Custom Anodized
- 70% Kynar Paint Color
- A combination of the above finishes on the Interior vs. Exterior
- Before the interior and exterior profiles are joined with the thermal strut, they can be painted or anodized with separate colors for a two-toned window.
- ** Indicates Finishes In Stock.

STRUCTURAL TESTING

Series 8000 sliding patio door meets AAMA standards as listed below: (Please see test reports located in the back of this section for door sizes.)

• Series 8000 Thermal Break Sliding Door XO – SD – C30

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

Series 8000 sliding patio door meets the following STC performance ratings:

- STC 37 / OITC 29 1/4" over 3/16" with a 1" OA
- STC 37 / OITC 30 1/4" Lami over 3/16" with a 1" OA
- STC 38 / OITC 31 5/32" over 3/8" Lami with a 1" OA

THERMAL TESTING

Series 8000 sliding patio door has been simulated and tested according to NFRC 100/200/500.

• U-Factor as low as .32 at standard NFRC Size

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

Our standard handle is a pull handle on the vent with an interior thumb-turn locking mechanism. Keyed exterior locks are available with this handle. Flush-mount (recessed pull) handles are available as an upgrade. If a keyed lock is desired with the flush-mount, a separate Adams Rite keyed locking cylinder will be installed.

Rollers

Standard rollers are 3" stainless steel precision bearing rollers.



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SCREENS

Screens are made of extruded aluminum to match the window frame and use charcoal fiberglass mesh. Ultraview mesh is available upon request. Standard screens available on XO, OX, OXXO configurations.

GLAZING

The Series 8000 offers a 1" OA on insulating glass units.

WEATHER-STRIPPING

Our Series 8000 Sliding patio doors are weather stripped with pile weatherstripping. All of the weather-stripping utilizes triple-fin and quiet-fin technology to reduce noise during operation and improve weathering performance.

INSTALLATION GUIDELINES

- Units ship with glazed panels and knock down frame for on-site assembly.
- All doors 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 ¹/₄" 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 ½ inch above the fin and bend it over the fin, to allow for header deflection.
- Remove wet plaster, mortar, stucco and cement immediately. (Note: doors 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 door.
- Any attachment screws or bolts should be sealed during the process of installation.
- The 8000 frame is hollow so a clearance hole for the head of the fastener should be used to fasten the outer most web to the building. The head of the fastener must be sealed to the frame and the clearance hole should be filled and capped.
- After installation is completed, building paper and stucco wire, if a stucco application, should overlap the window nail-on flange.

CARE & MAINTENANCE

- Doors 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.
- Doors 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.





821 HEAD

822 SILL







823 JAMB





831 HEAD 3 TRACK

832 SILL 3 TRACK







833 JAMB 3 TRACK





802 BOTTOM RAIL





801 TOP RAIL



803 LEAD STILE

804 INTERLOCK

806 TDL BAR









811 THRESHOLD

812 TRIM CAP







SERIES 8000 THERMALLY BROKEN ALUMINUM SLIDING DOOR





OX SLIDING DOOR

OX SLIDING DOOR

WITH TDL

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PAGE 13



OXXXO SLIDING DOOR

PAGE 17



XX SLIDING DOOR

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OXX SLIDING DOOR

PAGE 15



OXO SLIDING DOOR

PAGE 19



OXXO SLIDING DOOR

PAGE 16



OX SLIDING DOOR



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5





6













4



6







25⁄8







OXX SLIDING DOOR























OXXO SLIDING DOOR



Δ



5













OXXXXO SLIDING DOOR











9













XX SLIDING DOOR





21





5

4







OXO SLIDING DOOR

















4			Test Report	No.: A6963.01-301-44 eport Date: 05/17/11	
Architectural Testing			Test Record Retentio	n End Date: 03/29/15 Page 2 of 7	
4.0 Test Specifica	tion(s):				· ·
AAMA/WDMA, Unit Skylights.	CSA 101/I.S.2/A440	-05, Standard/	Specification for W	Indows, Doors, and	
5.0 Test Specimer	Description:				
5.1 Product Si	zes:				
Overall Area:	Wid	ith	Hei	eht	
5.08 m ² (54.68 ft	2) millimeters	inches	millimeters	inches	-
Overall size	2411	94-15/16	2107	82-15/16	
Active panel	1221	48-1/16	2045	80-1/2	
Fixed panel	1222	48-1/8	2045	80-1/2	
Frame Member	Material Thermally broken		Description		
Head, sill, jambs	aluminum				
Threshold cover	Aluminum	At sill of acti	ve panel.		
Roller track	PVC with stainless steel cap	Snap fit to each end.	the sill and held	back 1/2" from	
filler	Aluminum	Each jamb as	nd the head at the a	active panel.	
Fixed panel setting block	PVC	Utilized at th 1/4" from th	ne fixed panel sill a e jamb.	and held back 3-	
Panel stops	Aluminum with rubber bumper	Head and sil	l at the fixed panel	jamb.	
stripping holder	PVC	All members	of the frame cente	r leg.	
	Joinery Type		Detail		
All corners	Coped	Secured with	h three #8 x 1-1, ews and sealed with	/2"square drive	
		- pain include del	and search with	A PARTY PRIMA	
					1



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5.0 Test Specimen Description: (Continued)

5.3 Panel Construction:

The active panel interlocks were held back 3/4" from the bottom rail and 1.5 /9" from the top rail
The fixed panel interlocks were held back 3/4" from the bottom rail and 1-5/8" from the top rail. The fixed panel was secured through the frame with #10 x 1" Phillips pan head self drilling screws approximately 24" from each end.

	Joinery Type	Detail
All corners	Butt jointed	Secured with two #8 x 3* square drive pan head screws.

5.4 Weatherstripping:

Description	Quantity	Location
0.230" high polypile with triple center fin	4 Rows	Head, sill and fixed panel jamb at the exterior track.
0.190" high polypile with triple center fin	4 Rows	Head, sill and active panel jamb at the interior track.
0.550" high polypile with triple center fin	1 Row	Each meeting stile.
0.230" high polypile with triple center fin	1 Row	Fixed panel meeting stile.
0.190° high polypile with triple center fin	1 Row	Active panel meeting stile.

5.5 Glazing:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
1* IG	Aluminum	1/8"	1/8"	Channel glazed and secured with a
	spacer	tempered	tempered	rubber boot.

Location	Quantity	Dayligh	Class Dite	
Location	Quantity	millimeters	inches	Glass Bite
Active panel	1	1071 x 1845	42-3/16 x 72-5/8	3/4"
Fixed panel	1	1073 x 1845	42-1/4" x 72-5/8	3/4"

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٨	rchitectural Testing			Report Date: 05/17/11 Test Record Retention End Date: 03/29/15 Page 4 of 7		Architectural Testing	т	Report Date Report Date at Record Retention End Date	8:01-301- 8:05/17/ 8:03/29/ Page 5:0
	5.0 Test Specime 5.6 Drainage:	n Description	: (Continued	0		7.0 Test Results: The tempera tabulated as	ture during testing w	ras 19°C (66°F). The r	esults a
	Drainage Method	Size	Opantity	Location		Title of Test	Results	Allowed	Note
	Weepnotch	5/8" x 1/4"	2	Each end in sill screen track.			100 N (22.5 lbf)	180 N (40.5 lbf) max.	
	Weephole	3/4" x 3/16" oval	2	3/8" from each end through exterior sill leg.		Operating Force, per ASTM E 2068	Maintain motion: 52 N (11.7 lbf)	115 N (25.9 lbf) max.	
	Weepnotch	1" x 1/8"	2	1/2" from each end through			16 N (3 S Ibf)	100 N (22 S Ib0 max	
	Weephole	1" x 1/4"	3	intermediate leg in exterior sill track. 1-1/2" from each end and midspan through center sill leg.		Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1 57 psf)	1.17 L/s/m ² (0.23 cfm/ft ²)	1.5 L/s/m ²	1
	5.7 Hardware:					Water Penetration, per ASTM E 547	Pass	Nalaskasa	
	Descriptio	n	Quantity	Location		Uniform Load Deflection.	Pass	No leakage	- 4
	Stainless steel rollers		2	9-1/4" from each end on bottom rail of active panel secured with two 1/4"-20 x 3/4" Phillips pan head screws with washers.		per ASTM E 330 taken at exterior meeting stile +1440 Pa (+30.08 psf)	8.8 mm (0.35")	Barrant Carla	
	Lock handle asses deadbolt	mbly with	1	45" from bottom rail secured through the handle assembly with two 8-32 x 1- 3/4" Phillips oval head screws and to the lock stile with two #10 x 1" Phillips flat head self drilling screws		Uniform Load Structural, per ASTM E 330 taken at exterior meeting stile +2160 Pa (+45.11 psf)	0.3 mm (0.01")	5.0 mm (0.22 ¹) mm	4,0,0
	Keeper		1	Opposite lock secured with four #10 x 3" Phillips pan head screws.		Forced Entry Resistance, per ASTM F 842,	0.5 mm (0.01)	3.9 mm [0.2.5] max.	5,0
	5.8 Reinforceme	nt: No reinfo	reement was	utilized		Type: A / D - Grade: 10	Pass	No entry	
	5.9 Screen Const	ruction: No s	creen was uti	lized		Deglazing, per ASTM E 987 Operating direction, 3200 K 71 kibp	Dece	Martinestand	
	6.0 Installation:					Remaining direction,	Faso	Preets as stated	
	The specimen wa allowed for a 1/4 with silicone.	is installed in -1/8" shim sp	to a Spruce-l ace. The exte	Pine-Fir wood buck. The rough opening erior perimeter of the window was sealed		230 N (S1.7 lbf)	Pass	Meets as stated	
	Location	Anchor	Description	Anchor Location					
	Head, jambs #1	2 x 1-1/4" rews.	Phillips flat	head 3" from each end and 11-16" on center.	1				
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Architectural Testing Test Record Retention End Date: 0/29/15 Page 6 of 7	Architectural Testing Test Record Retention End Date: 03/29/15 Page 7 of 7
<ul> <li>7.0 Test Results: (Continued)</li> <li>Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/LS.2/A440 for air leakage resistance.</li> <li>Note 2: Without insect screen.</li> <li>Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.</li> <li>Note 4: The deflections reported are not limited by AAMA/WDMA/CSA 101/LS.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.</li> <li>Note 5: Loads were held for 10 seconds.</li> <li>Note 6: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.</li> </ul>	The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice. If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made. This report does not is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of architectural Testing. Inc. For ARCHITECTURAL TESTING, Inc. Party First te versus by the sheatenest. Iffrey T. Osugi Technician If the material set of the report is complete only when all attachments listed are included. Attachment (Sugers): This report is complete only when all attachments listed are included. Appendix-B: Drawings (18)
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