



BRIGHTON SERIES (LC40, R30)
SLIDING GLASS DOOR
5 7/8" FRAME DEPTH (OVERALL)

FEATURES

1.) Available Configuration

- Sliding glass door
- OX, XO, OXO, XOO, OOX
- 6'8", 6'10", 8' OR 9'

2.) Main frame / Sash

- Fiberglass sills available in bronze finish

3.) Commercial Framing System

- 5 7/8" frame depth (overall)
- Fin to interior 4 9/16" standard
- Frame depth can be adjusted to fit any wall depth from 3 9/16" to 5 5/16", 5 9/16" to 7 5/16"

4.) Type of hardware

- Single point latch hardware
- Keyed hardware(optional)
- Heavy duty rollers on operating sill

5.) Performance

- Structural and thermal (Test reports available upon request)

6.) Glazing

- 3/4" high performance Low-E(argon gas fill)tempered insulated glass
- Stick glazed for ease of glass replacement
- Capillary tubes (optional)

7.) Muntin choices

- Internal "dust free" muntins-available in flat or contoured, single color or two tone appearance
- Removable wood muntins
- Simulated divided lites

8.) Finish

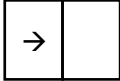
- Primed interior
- Pre-finished white interior
- Exterior colors available in white, toffee, sandstone, dark bronze, beige, chestnut, earthtone, holly green, black, redwood and satin creme
- Custom colors available for additional upcharge

9.) Screen choices

- Adjustable sliding screen with fiberglass(BetterVue™) screen cloth
- Aluminum screen cloth (optional)



**BRIGHTON SERIES(LC40, R30)
SLIDING GLASS DOOR
5 7/8" FRAME DEPTH (OVERALL)**

MODEL	Sliding glass door
SERIES	Brighton Series
CLASS	SGD-LC40, SGD-R30
OPERATION	
MAXIMUM SIZE	AAMA structural test size is 95"x96"(LC40) minimum. AAMA structural test size is 71" x 108" (R30) minimum. For minimum and maximum contact Quaker Window Products.
GLAZING THICKNESS	3/4" Insulated Glass
MULLING	Mulls to sidelight units
FINISHES	Baked-on powder coat finish meets AAMA 2604 specs and is available in 11 standard colors. Optional finishes: 2605 (equal to 70% Kynar) powder coat finish. Clear and color Anodized finishes
MUNTINS	Internal "dust free" muntins-available in flat or contoured, single color or two tone appearance, removable wood muntins and simulated divided lites.
SCREENS	Adjustable sliding screen with fiberglass(BetterVue™) screen cloth, aluminum screen cloth
OPERATING FORCE(LBS)	8# to maintain motion(LC40), 3# to maintain motion(R30)
CURVED SHAPES	NA

PERFORMANCE

The performance numbers listed below represent independent laboratory test on Quaker Windows at the time of publication. Please contact Quaker Window for the most recent performance data.

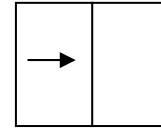
Model	NWWDA Rating I. S. 2-97	Structural Load P.S.F.	Air At 25 MPH(cfm/ft ²)	Water (No Penetration) PSF	U-value	SHGC
Sliding Door	SGD-LC40	40.1	0.16	6.06	.31	.22
	SGD-R30	30.1	0.24	4.60	.31	.22

Note: Numbers listed are subject to change without notice.

:Structural performance numbers(LC40) are based on French(wide stile) door.

:Contact Quaker Window Products for narrow frame structural performance numbers.

:U value and SHGC simulation results were conducted with Low-E and Argon.



QUAKER WINDOW PRODUCTS CO, INC.
BRIGHTON SERIES – SLIDING PATIO DOOR
SGD-LC40(8’ HEIGHTS),
SGD-R30(9’ HEIGHTS)
(5 7/8” Frame Depth)

Quaker Window Products reserves the right to change any and all designs without notice. Due to periodic re-certification requirements, results shown may vary slightly.

PART 1 - GENERAL

1.01 TESTING AND PERFORMANCE REQUIREMENTS

C. Specific Performance Requirements:

Doors shall conform to specified AAMA/NWWDA 101/I.S.2-97 **SGD-LC40** requirements at a minimum test size of **7’-11”x 8’** (3/4” I.G.-5/32” tempered panes) and following, whichever are the more stringent:

1. **Air Infiltration Test:** With the panel in a closed and locked position, the sliding glass door shall be subjected to an air infiltration test in accordance with ASTM E 283-04. Air infiltration shall not exceed **(0.16 cfm/ft²)**.

2. **Water Resistance Test:** The glazed unit shall be mounted in its vertical position continuously supported around perimeter and the panel placed in the fully closed and locked position. The unit shall be subjected to a water resistance test in accordance with ASTM E 547, using a static pressure of **6.06 psf** with no uncontrolled water leakage.

Testing shall be performed on doors both with and without an available insect screen.

3. **Uniform Load Structural Test:** Per ASTM E 330-02. At the conclusion of tests, there shall be no glass breakage, permanent damage of fasteners, hardware parts or any other damage causing the sliding door to be inoperable at **40.1 psf**.

4. **Operating Force:** Each movable panel shall operate in either direction with a force of **8 lbf** to maintain motion.

1.01 TESTING AND PERFORMANCE REQUIREMENTS

C. Specific Performance Requirements:

Doors shall conform to specified AAMA/NWWDA 101/I.S.2-97 **SGD-R30** requirements at a minimum test size of **5’-11”x 9’** (3/4” I.G.-5/32”

tempered panes) and following, whichever are the more stringent:

1. **Air Infiltration Test:** With the panel in a closed and locked position, the sliding glass door shall be subjected to an air infiltration test in accordance with ASTM E 283-04. Air infiltration shall not exceed **(0.24 cfm/ft²)**.

2. **Water Resistance Test:** The glazed unit shall be mounted in its vertical position continuously supported around perimeter and the panel placed in the fully closed and locked position. The unit shall be subjected to a water resistance test in accordance with ASTM E 547, using a static pressure of **4.60 psf** with no uncontrolled water leakage.

Testing shall be performed on doors both with and without an available insect screen.

3. **Uniform Load Structural Test:** Per ASTM E 330-02. At the conclusion of tests, there shall be no glass breakage, permanent damage of fasteners, hardware parts or any other damage causing the sliding door to be inoperable at **30.1 psf**.

4. **Operating Force:** Each movable panel shall operate in either direction with a force of **3 lbf** to maintain motion.

1.02 QUALITY ASSURANCE

A. Standards: Except as otherwise indicated, requirements for aluminum sliding doors, terminology and standards of performance and fabrication workmanship are those specified and recommended in ANSI/AAMA 101 and applicable general recommendations published by AAMA and the AA.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Aluminum Extrusions: All extruded sections shall be of 6063-T6 aluminum. Alloy and temper recommended by window manufacturer for strength, corrosion resistance, and application of required finish, but no less than 22,000 psi ultimate tensile strength, a yield of 16,000 psi. Comply with ASTM B 221.

B. Hardware: Hardware having component parts which are exposed shall be of aluminum, stainless steel, or other non-corrosive materials compatible with aluminum. Cadmium or zinc-plated steel where used must be in accordance with ASTM Specification A 165 or A 164.

1. Rollers and Roller Assembly: Moveable panels shall be fitted with rollers and roller assemblies conforming to AAMA 506.3-87. Rollers and roller assemblies shall be designed to provide easy movement and to adequately support the panel during extended usage without deforming or developing flat spots.

C. Weatherstripping: Provide double weatherstripping using silicone-coated woven pile with polypropylene fin center where specified with AAMA 701

D. Glass:

1. All glazing shall be glazed at the factory as follows:

a) All units shall be constructed to an overall minimum thickness of 3/4" with two lites of DSB (1/8"), 3/16" or 1/4" (as size and loading requires)

2. Glazing Options: Optional glazing such as tinted, laminated, tempered, reflective, low-E, argon-filled and others are available upon request.

2.02 FABRICATION

A. Sliding Patio Door Members: All door members, including grille bars, shall be of aluminum.(Excluding all interior wood components).

1. All aluminum main frame extrusions shall have a minimum wall thickness of 0.055"/0.062"/0.125 (mainframe/panels/sill).

2. Depth of frame and sash shall not be less than 5 3/4".

B. Assembly: The doors shall be assembled in a secure and workmanlike manner to perform as hereinafter specified. Exterior aluminum frame corners were miter cut, sealed with closed cell foam gaskets, and fastened at the head with corner keys and (1) #8 x 1 1/2" screw per corner. The interior wood frame members were span-fit onto the aluminum framing and held in place using 16 ga 7/16" x 1/2" crown staples. Wood frame corners were rabbit-cut and secured with three (3) 16ga 7/16" x 1 1/2" crown staples at each head corner. The head interior stop was secured in place using #6 x 1/2" screws. Side jamb interior stops were stapled in place using 3d x 1 1/4" finish nails. Each sill corner was sealed with closed cell foam gaskets and secured using (1) #8 x 1 1/2" screw through the sill into the extruded frame screw boss. (2) #10 x 1 1/2" screws fasten through the sill into wood side jamb. (1) #8 x 1

1/2" screw fastens through the side jamb into the sill screw boss.

C. Panel Construction: Panel rails were coped at both ends and press fit together with stiles being held together by (2) spiral hardwood dowels at each top corner and (3) spiral hardwood dowels at each bottom corner. Exterior surfaces are clad with aluminum extrusions lapped and sealed at both ends.

D. Finishes

Organic Coating: Baked-on powder coat finish that meets AAMA 2604.

1. Other finishes available upon request

E. Glazing

1. Units shall be "drop glazed" with a wood stop on the interior glass. The exterior is set in glazing tape and cap sealed with silicone.

F. Screens

1. Screens frames shall be extruded aluminum
2. Screen mesh shall be (aluminum or fiberglass)

PART 3 - EXECUTION:

3.01 INSTALLATION:

A. Comply with manufacturer's specifications and recommendations for installation of window units, hardware, operators and other components of work. In no case shall attachment to existing structure or to components of the window system be through or debridge the thermal barriers of the replacement windows.

B. Set units plumb, level and true to line, without warp or rack of frames or sash. Anchor securely in place. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action. Windows must be securely blocked and fastened.

C. Wedge insulation between frames of new windows and construction to remain, or between frames and new blocking as applicable. Compress fiberglass to not less than 50 percent of original thickness.

D. Set sill members and other members in bed of compound as shown, or with joint filler or gaskets as shown, to provide weathertight construction. Seal units following installation and as required to provide a weathertight system.

E. Fasteners: Aluminum, stainless steel, or other materials warranted by manufacturer to be non-corrosive and compatible with aluminum window members, hardware and other components of the windows.

3.04 OPERATION AND MAINTENANCE:

A. Adjust operating sash and hardware to provide tight fit at contact points and at weatherstripping. Adjust also for smooth operation and a weathertight closure.

B. Clean aluminum surfaces promptly after installation of windows, exercising care to avoid damage to the finish. Remove excess glazing and sealant compound, dirt and other substances.

1. Lubricate hardware and moving parts

2. For frame and sash cleaning, use a common window cleaner or mild detergent solution with a regular cloth. After cleaning, be sure to thoroughly rinse all surfaces with clean water to remove any detergent residue.

C. Clean glass promptly after installation of windows. Remove glazing and sealant compound, dirt and other substances.

1. Use a common window cleaner with a lint-free cloth or chamois.

2. Do Not Use:

a) Caustic or abrasive cleaner or any silicon-based solvents on the frame or sash surfaces, as they may damage or discolor the finish

b) Petroleum-based lubricants as they may discolor the finish

c) Insecticides (bug spray) on or near window surface. Contact of insecticides with the finish could damage or discolor the window surface.

D. Initiate all protection and other precautions required to ensure that window units will be without damage or deterioration at time of acceptance.

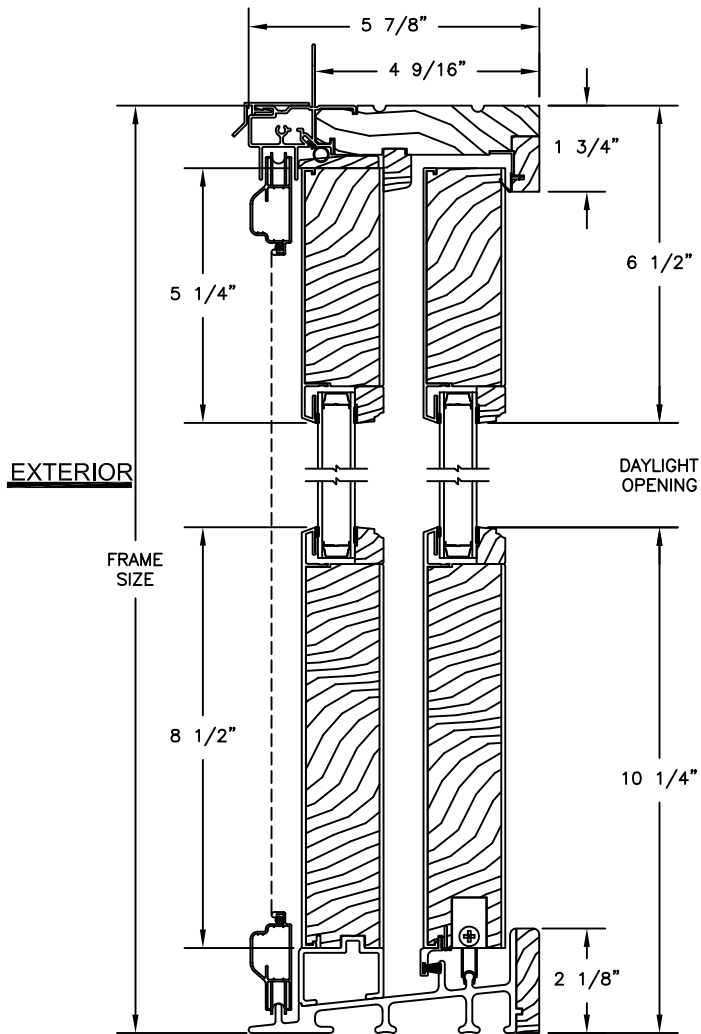
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BRIGHTON CLAD

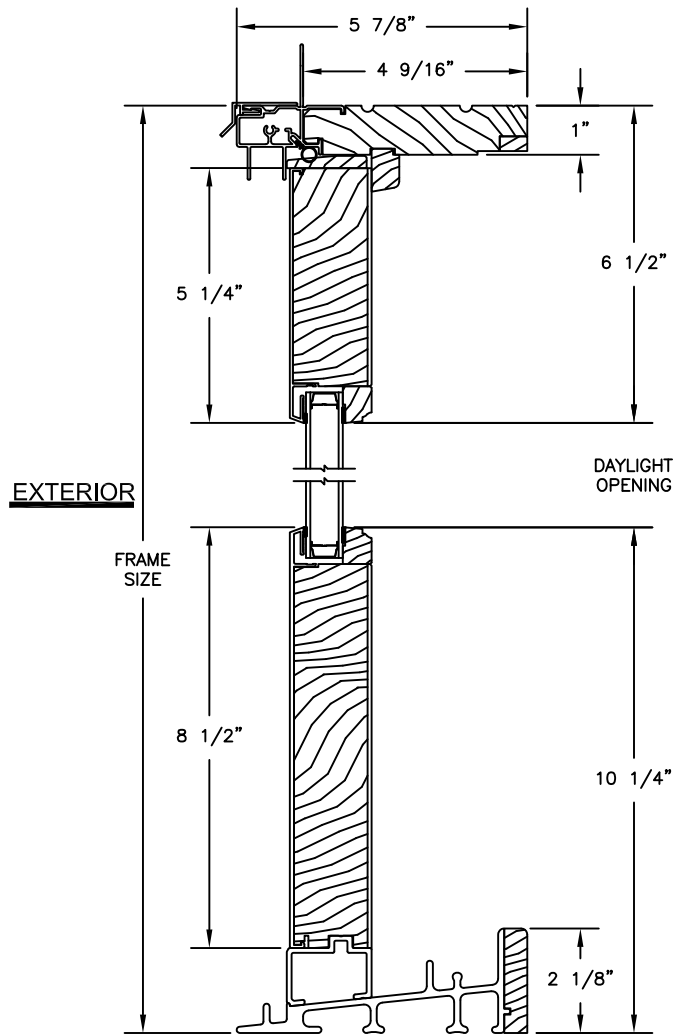
CLAD PATIO DOOR - FRENCH SLIDER

SECTION DETAILS

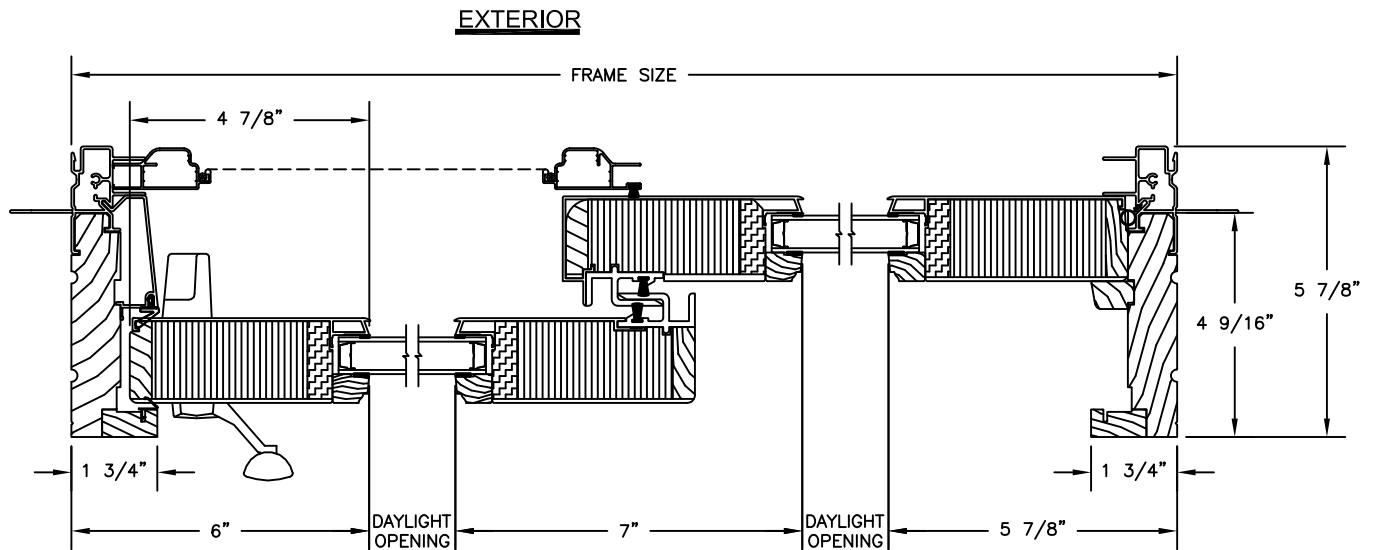
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OPERATING HEAD JAMB & SILL



STATIONARY HEAD JAMB & SILL



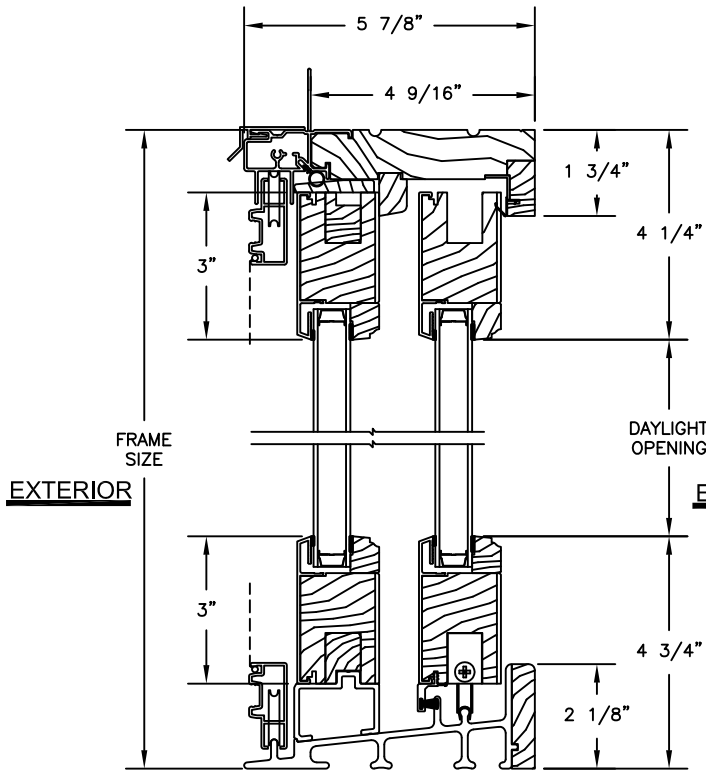
JAMBS

BRIGHTON CLAD

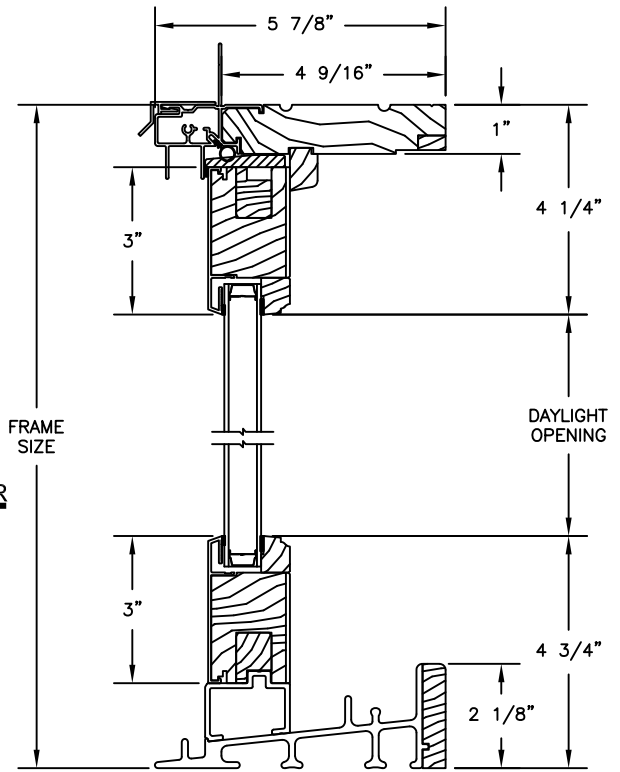
CLAD PATIO DOOR - NARROW SLIDER

SECTION DETAILS

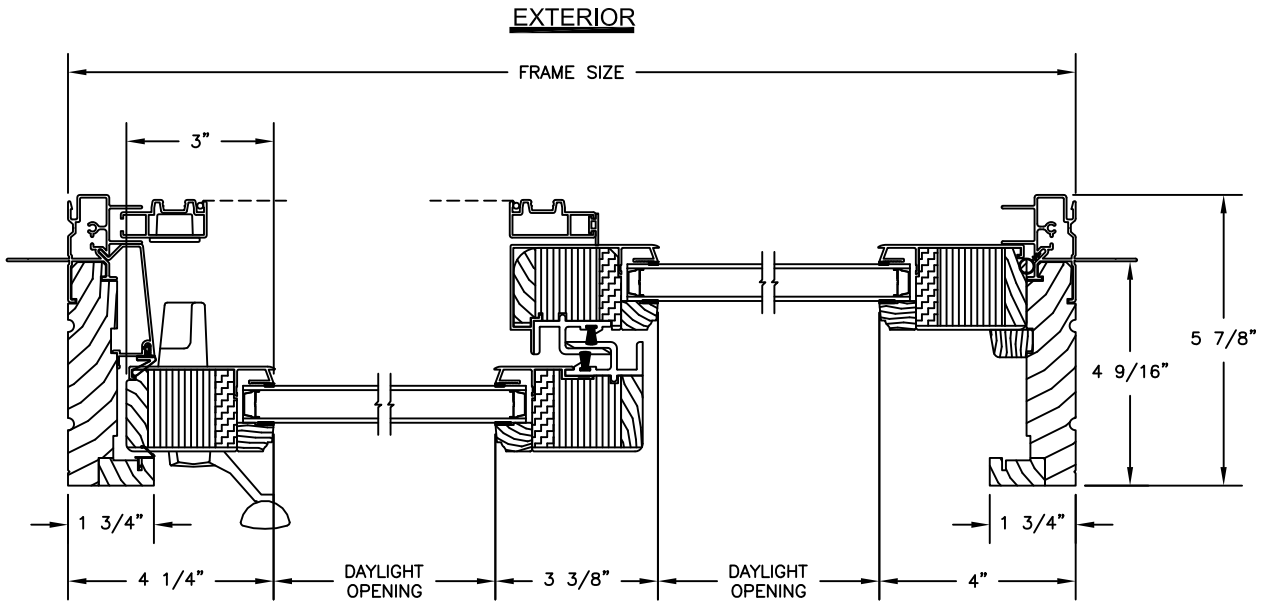
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OPERATING HEAD JAMB & SILL



STATIONARY HEAD JAMB & SILL



JAMBS