

# Fenestration Testing Laboratory, Inc.

10235 8<sup>th</sup> Street, Rancho Cucamonga, CA 91730

Report #: T20-070

## REPORT SUMMARY

### REPORT #

T20-070

### TESTED FOR

C.R. Laurence Co., Inc.  
2503 E. Vernon Ave.  
Vernon, CA 90058

### SERIES & PRODUCT TYPE

PALISADES S90 - THERMALLY BROKEN ALUMINUM FOLDING DOOR (Outswing)

### CONFIGURATION

XXXX -3L1R - Folding Outswing door

### FRAME SIZE

3962.40 mm x 2438.40 mm (156.00" x 96.00")

### SPECIFICATION

NAFS - North American Fenestration Standard/specification for windows, doors, and skylights  
AAMA/WDMA/CSA 101/IS.2/A440-17

### PRIMARY DESIGNATOR

CLASS CW-PG40 3962.40 x 2438.40 mm (156.00 x 96.00 in) Type: FLD

### TEST COMPLETION DATE

October 19, 2020

### REPORT DATE

March 17, 2021

# Fenestration Testing Laboratory, Inc.

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Report #: T20-070

**1.0 Tested For:** C.R. Laurence Co., Inc.  
2503 E. Vernon Ave.  
Vernon, CA 90058

**2.0 Purpose:**

The purpose of this report is to present the testing methods employed and the test results obtained during the performance testing of one (1) THERMALLY BROKEN ALUMINUM OUTSWING FOLDING DOOR described in paragraph 5.0 of this report.

**3.0 Test References:**

**3.1** NAFS - North American Fenestration Standard/specification for windows, doors, and skylights  
AAMA/WDMA/CSA 101/1.S.2/A440-17

**3.2** ASTM F 842-17 Forced Entry Resistance Tests for Sliding Door Assemblies

**3.3** AAMA 1304-18 Forced Entry Resistance for Side-Hinged Door Systems

**4.0 Compliance Statement:** The test results in paragraph 6.0 indicate that the test sample described in paragraph 5.0 of this report met the performance requirements of the above specifications for the performance grade shown in 4.1 below.

**4.1** CLASS CW-PG40 3962.40 x 2438.40 mm (156.00 x 96.00 in) Type: FLD

**5.0 Sample Submitted:**

**5.1 Product Type:** THERMALLY BROKEN ALUMINUM OUTSWING FOLDING DOOR

**5.2 Series:** PALISADES S90

**5.3 Configuration:** XXXX -3L1R - Folding Outswing door

<b>5.4 Product Dimensions:</b>	<b>Millimeters</b>	<b>Inches</b>
Total Frame:	3962.40 x 2438.40	156.00 x 96.00
All Panels:	901.70 x 2349.50	35.50 x 92.50

With an added Astragal to Panels C and D, each had a width of 37.75"

**5.5 Glass and Glazing: Same for all panel**

<i>IGU Thickness</i>	<i>Spacer Size</i>	<i>Interior Lite</i>	<i>Exterior Lite</i>	<i>Glazing method</i>
1.0" overall wide	0.625"	3/16" Tempered	3/16" Tempered	Inside glazed onto foam filled bulb gasket. "L" shaped 1/8" corner setting block were set at all four corners of each IGU. Aluminum glazing stop applied full perimeter on the inside of the IGU.
All vertical glazing stops contained an integral pull.				

**5.6 Weepage:**

<i>Drainage Method</i>	<i>Size</i>	<i>Quantity</i>	<i>Location</i>
Rectangular weep	1.75" x 0.25"	Eight (8)	Sill outside face -Outermost weep at 6" from each end. Remaining weeps are 2" each way from each vertical centerline in between two adjacent panels.
Note that the sill sixteen 3/8" vertical access holes for sill anchors to the rough opening also drained the exposed sill channels to lower sill hollow.			

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## 5.6 Weepage:

<i>Drainage Method</i>	<i>Size</i>	<i>Quantity</i>	<i>Location</i>
Rectangular weep	2.0" x 0.25"	Eight (8)	Sill center channel - One weep at 10" from each end and one 6" each way from the vertical centerline between panels . Note that the inner hollow wall directly below each of the weeps contained the same sized weep to drain the innermost hollow.
Vertical rectangular weep	1.75" x 0.25"	One (1) at each end of each panel	Bottom rail of each panel - The hole in the horizontal wall under the IGU drained into a hollow and out the same sized hole at the bottom of the rail.

## 5.7 Pressure balancing: None

## 5.8 Weather-stripping:

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
Flocked gasket - See drawing for part MDAC350208	Two (2) strip	One strip on head outside leg facing out and one strip on sill outside leg facing out.
EPDM rubber gasket part S85GDRS	See "Location"	All panel stiles contained two strips. All panel rails contained one strip on the inboard side.
Gasket S85GRP	See "Location"	Jamb each have one strip. Posts each have two strips - one facing each panel stile.
Hollow gasket part MDAC350203	See "Location"	One strips on each jamb inside leg facing out. One strip on panel 'C' astragal facing out and one strip on panel "D" astragal facing in.
Hollow gasket part S85GDRH	See "Location"	One strip on each panel top and bottom rail on the outboard side and one strip at each end of each post on outboard side.

## 5.9 Sealants:

<p>Sealant was applied at the following locations:</p> <ul style="list-style-type: none"> <li>-The frame was sealed to the rough opening full perimeter on the inside and outside.</li> <li>-Frame corners were sealed full profile.</li> <li>-Jamb S85 plastic blocks (one at each end) were sealed to the jambs.</li> <li>-End dams at each end of the sill and head were sealed to the sill and head respectively.</li> <li>-All screws fastening the end dams to their resepective head and sill were sealed.</li> <li>-All sill anchor screws were sealed over.</li> </ul>
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## 5.10 Hardware:

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
Lock handle for shoot bolts	Two	One at post between panels A & B, and one at panel C right stile. 37.75" from bottom. When locked, the shoot bolts engaged their respective channel.
Door handle - latch lock	One	The door handle was fastened to panel D left side stile and located 37.75" from the bottom and fastened with a pair of screws from the interior. The handle operated only the latch lock which engaged its catch on panel C right side stile.
Keyed dead bolt	One	The keyed dead bolt was located on panel D left side stile 34.25" from the bottom. It controlled a three point lock system with lock points at 6.5", 35.75", and 66.75" from the bottom. Each lock point engaged its respective catch on panel C right side stile.

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## 5.10 Hardware:

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
4 wheel roller - S85B	One	The roller was fastened to the bottom of the 2 <sup>nd</sup> post from the left with a pair of screws. The wheels traveled along the integral sill tracks. Each track contained a stainless steel cap.
Top Roller/Guide S85T	One	Fastened to the top of the 2 <sup>nd</sup> post from the left with a pair of screws.
S85 concealed butt hinge	5 per hinged stile/jamb	One hinge at 8" and 19.5" from each end and one at midspan for each hinge stile/jamb.
S85 Leveler	24	All jamb and head anchor screws contained a leveler to adjust the position of the head and jamb respectively.

## 5.11 Construction:

<i>Location</i>	<i>Joinery Type</i>	<i>Number of Fasteners</i>	<i>Fastener Size</i>
Panel corners	Mitered Keyed and staked	Two (2) keys per corner and each key leg was staked twice	N/A
Note that the frame corners were not joined to each other. Head, sill, and jambs were independently fastened to the rough opening.			
Metal shoot bolt guide (See drawing, M000600401) located at each end of the first post between panels A and B, and at each end of panel C right stile. Each was fastened with a pair of screws.			
Aluminum horizontal gasket retainer fastened to each panel's top and bottom rails with #8 x 0.75" PFH screws located 4.5" from each end and 5" on center.			
Astragal extrusion S85JAMBEXT was applied to Panel C right stile and Panel D left stile. Each was fastened to its respective panel stile with four (4) screws; one 4" from each end and 29" o.c.			
A nylon cover (part S85COVERP) at each end of each post on the inboard side was fastened to the post with a single screw and used to retain weather-strip.			

## 5.12 Reinforcement: None

## 5.13 Installation:

<i>Location on frame</i>	<i>Anchor type</i>	<i>Spacing</i>
Head	#10 x 3" PFH	6" from each end and 16" on center for a total of ten (10) screws - staggered
Jambs	#10 x 3" PFH	4" from each end and 14" on center for a total of 7 screws - staggered
Sill	#10 x 3.5" PFH	4" and 8" from each jamb and 4" and 8" from each panel post in each direction for a total of 16 screws - staggered
Note that at the sill, access holes for fasteners were made through the upper horizontal sill wall to fasten the lower horizontal sill wall to the rough opening.		

**6.0 - Test procedures and results:** All testing procedures were performed in accordance with the performance requirements of the test specifications referenced in paragraph 3.0 of this report. The number preceding each test listed below refers to the corresponding section in the NAFS.

### 6.4.5 - Force to latch for side-hinged door systems

<b>Test Description</b>	<b>Results</b>	<b>Allowed</b>	<b>Comments</b>
6.4.5.1 - Force to latch	40.03 N (9.00 lbf)	Report only	
6.4.5.2 - Force-to-engage deadbolt	2.2 N-m (19.50 in-lbs)	Report only	1
6.4.5.2 - Additional perpendicular force applied to stile in order to engage deadbolt	44.48 N (10.00 lbf)	Report only	2

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## 9.3.2 – Air Infiltration (ASTM E283-04(2012))

Test Description	Results	Allowed	Comments
75 Pa differential pressure	0.90 L/s*m <sup>2</sup>	1.5 L/s*m <sup>2</sup>	
1.57 psf differential pressure	0.18 cfm/ft <sup>2</sup>	0.30 cfm/ft <sup>2</sup>	
The tested specimen meets the performance levels specified in AAMA/WDMA/CSA 101/1.S.2/A440 for air leakage resistance.			

## 9.3.3 – Water Penetration (ASTM E547-00(2016))

Test Description	Results	Allowed	Comments
DP70 - 510 Pa (10.65 psf)	No water penetration	No water penetration	3

## 9.3.4.2 – Uniform Load Deflection at Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
DP40 - 1920 Pa (40.10 psf) Pos	6.86 mm (0.27")	13.46 mm (0.53")	4
DP40 - 1920 Pa (40.10 psf) Neg	11.94 mm (0.47")	13.46 mm (0.53")	4

## 9.3.4.3 – Uniform Load Structural at 1.5 x Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
OL for DP40 - 2880 Pa (60.15 psf) Pos	0.25 mm (0.01")	7.11 mm (0.28")	4
OL for DP40 - 2880 Pa (60.15 psf) Neg	0.25 mm (0.01")	7.11 mm (0.28")	4

## 9.3.5 – Forced Entry Resistance (ASTM F842-17, AAMA 1304-18)

Test Description	Results	Allowed	Comments
ASTM F842 Type A Grade 10 & AAMA 1304-18	No Entry	No Entry	5

## 9.3.6.3 – Deglazing Test

Test Description	Results	Allowed	Comments
Active Sash Pull Stile - 320 N (71.94 lbf)	16%	Less than 90% of glazing bite	
Active Sash Rail - 230 N (51.71 lbf)	9%	Less than 90% of glazing bite	

## 7.3.7 – Operation/Cycling Performance per AAMA 920-16

Test Description	Results	Allowed	Comments
250,000 Cycles opening 60 degrees at a rate of not less than 12 cycles per minute	Passed	Met passing criteria in AAMA 920-16 section 8.1, 8.2, 8.3, and 8.4	6

Comment #1 – This test is to measure the torque force to operate the deadbolt.

Comment #2 – Reports any additional perpendicular force needed to be applied to the panel to get the deadbolt to engage after the latch has engaged.

Comment #3 - Tested without insect screen. Note that the folding door passed water penetration at a test pressure that exceeded the overall performance level of the door (DP40).

Comment #4 – Deflection measurement taken from post between panel B and C.

Comment #5 – ASTM F842 Grade 10 achieved.

Comment #6 – Tested a separate single door constructed with the same materials as the frame, weather-stripping, and hinges used on the sample described in this report with the astragal as used in the lock stile was tested per AAMA 920-16. A pneumatic cylinder attached to the door that pushed open and pulled the door shut at the prescribed rate so that it slammed shut.

Testing was witnessed by: Jim Cruz with FTL at CRL's testing location in Vernon, CA. Personnel from CRL performing and/or witnessing all or part of the testing were Bladimir Ochoa, Mario Salazar, Roman Aguiniga, and Naoufel Mourchid.

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For a complete description of the tested sample, refer to the attached fifty-five (55) pages consisting of a bill of materials, cross section drawings, and individual die drawings. This report is complete only when all the above referenced bill of materials and drawings are attached.

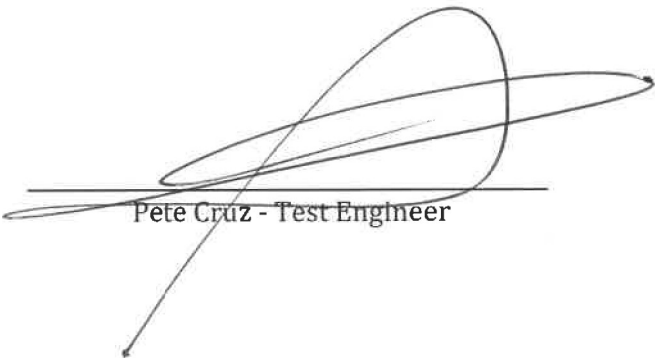
The bill of materials, cross section drawings, and die drawings of frame and sash members are on file and have been compared to the sample submitted. Test sample sections, bill of materials, drawings and a copy of this report will be retained at the test laboratory for four years.

This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory, Inc (FTL).

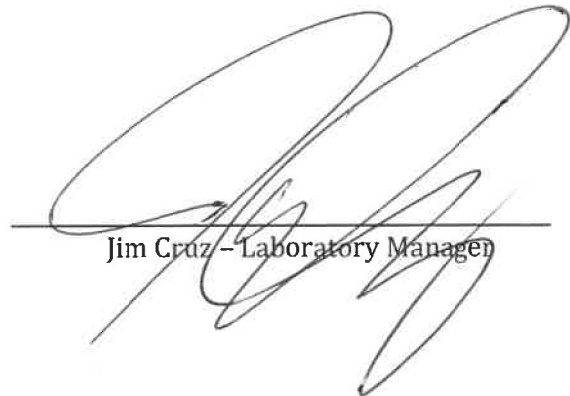
The preceding test results relate only to the tested specimen and were obtained by using the applicable test methods listed in section 3.0 and 6.0 above. This report does not constitute certification of this product or an endorsement by this laboratory. It is the property of the client named in section 1.0 above. Certification can only be granted by an approved administrator and/or validator.

**Test Completion Date:** October 19, 2020

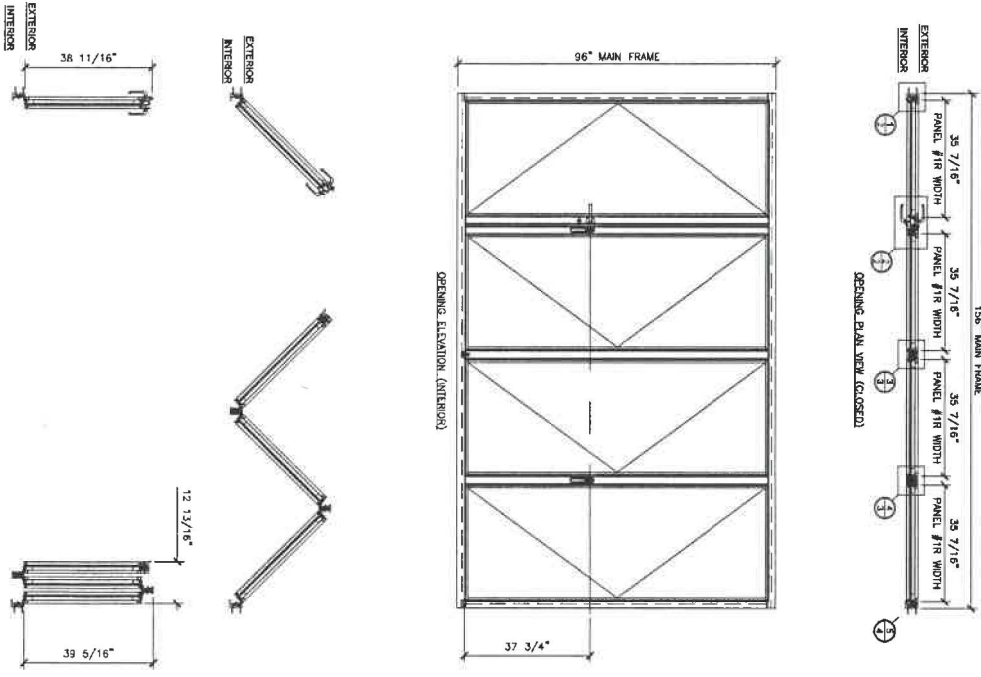
**Report Completion Date:** March 17, 2021



Pete Cruz - Test Engineer



Jim Cruz - Laboratory Manager

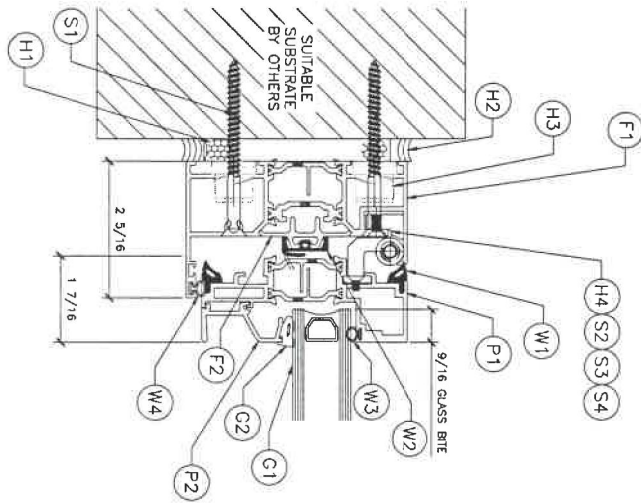


PALISADES DOOR CONFIGURATION	
PO #	1351503
CUSTOMER PO #	CR Laurence Co., Inc
SYSTEM	S90
FRAME & PANEL FINISH	PARK BRONZE ANODIZE - CLASS 1
HARDWARE FINISH	STAINLESS STEEL
SILL	PAISED
SWINGS	CUT
GLAZING	1" INSULATED (3/16"x5/8"x3/16") BY OTHERS
QTY:	1 ( ONE ) THUS
3 POINT LOCK	
HINCE PULL	

\* NOMINAL GLASS SETTING BLOCKS HAVE BEEN INSTALLED IN ALL 4 (FOUR) CORNERS OF EACH MONTEREY PANEL. ADDITIONAL WAGING THICKNESS CORNER BLOCKS ARE SHIPPED LOOSE WITH MONTEREY SYSTEMS. THESE CORNER BLOCKS ARE TO BE USED BY DOORS INSTALLED TO ACHIEVE TYPICAL INDUSTRY WITHIN PANEL FRAMES.

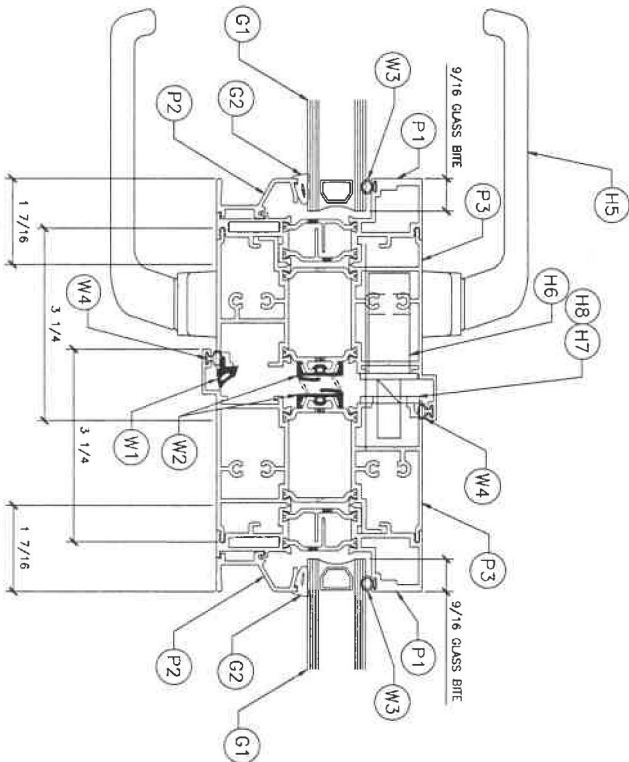
**FENESTRATION TESTING LAB**  
**REPORT NO:** T20-070  
**DATE:** 1/14/21

FASTEN MAIN FRAME  
TO THE ROUGH  
OPENING ON  
VERTICALS AND  
HORIZONTALS  
WITH 3" NO. 10 SCREW  
@ EACH ADJUSTABLE  
LEVELER LOCATION



① HINGE JAMB DETAIL

ARCH. REF: NONE



② ACTIVE STILE DETAIL

ARCH. REF: NONE

**FENESTRATION TESTING LAB**

REPORT NO: **T20-070**

DATE: **1/14/21**

REVISIONS



**C.R. LAURENCE CO.**  
ARCHITECTURAL PRODUCTS  
2100 E. 38TH Street, Los Angeles, CA 90058  
www.crlaurence.com

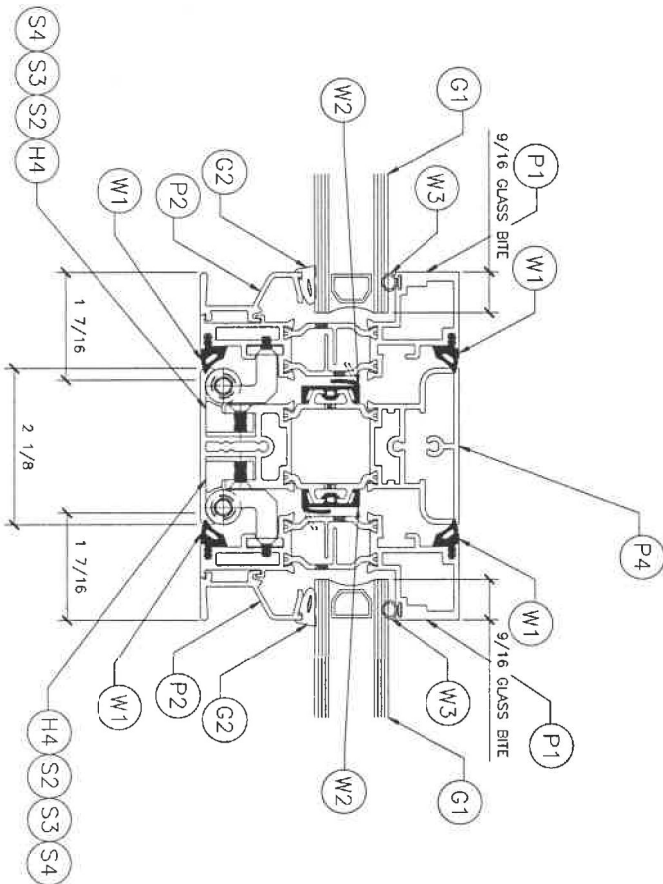
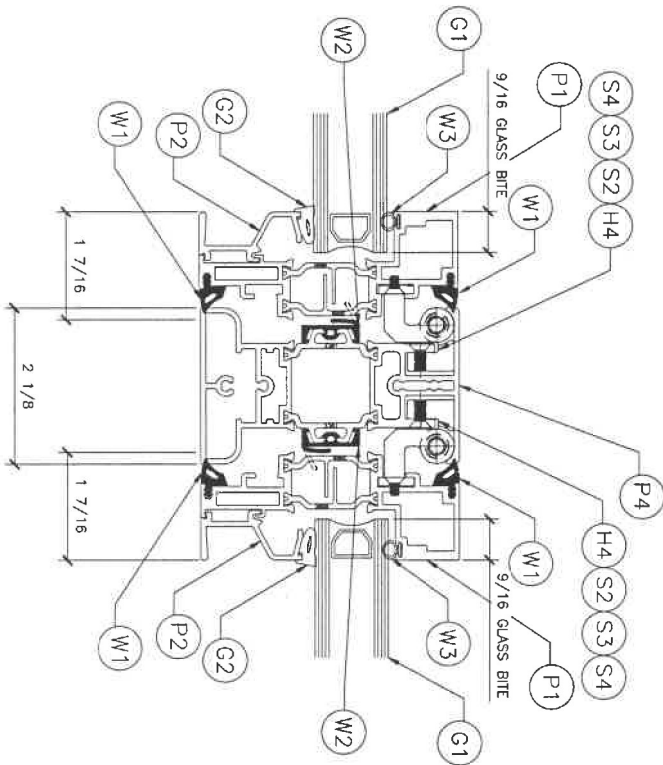
PALISADES S90  
BI-FOLDING GLASS DOOR  
WALL SYSTEM

Job Name:

Glazing Contractor:

DATE: 10/26/2020  
DRAWN BY: RA  
CHECKED BY: MS  
SCALE: AS SHOWN  
JOB #: PTC972302





**3** TYPICAL HINGES DETAIL **3** PENETRATION TESTING LAB

ARCH REF: NONE

REPORT NO:

720-070

DATE:

1/14/21

**4** TYPICAL HINGES DETAIL

ARCH REF: NONE

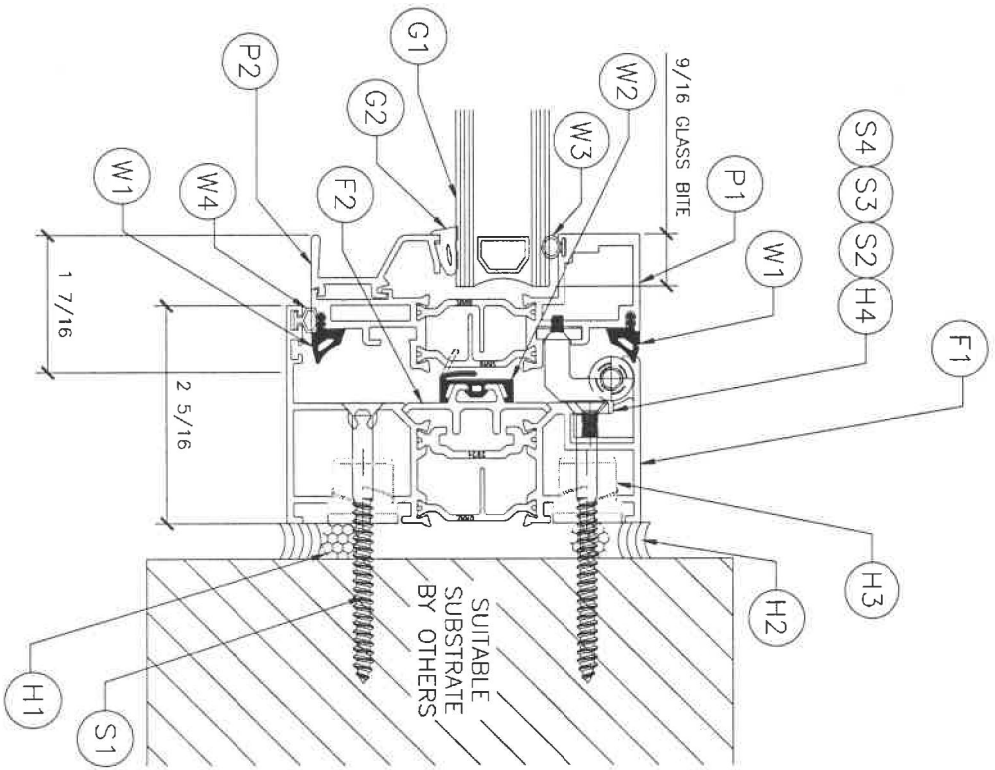
REVISIONS

**CRL**   
**C.R. LAURENCE CO.**  
**ARCHITECTURAL PRODUCTS**  
 2100 E. 38TH Street, Los Angeles, CA 90058  
 www.crlaurence.com

Job Name:  
 PALISADES S90  
 BI-FOLDING GLASS DOOR  
 WALL SYSTEM

Glazing Contractor:

DATE: 10/26/2020  
 DRAWN BY: RA  
 CHECKED BY: MS  
 SCALE: AS SHOWN  
 JOB #: PTC972302





**5 HINGE JAMB DETAIL**

ARCH REF: NONE

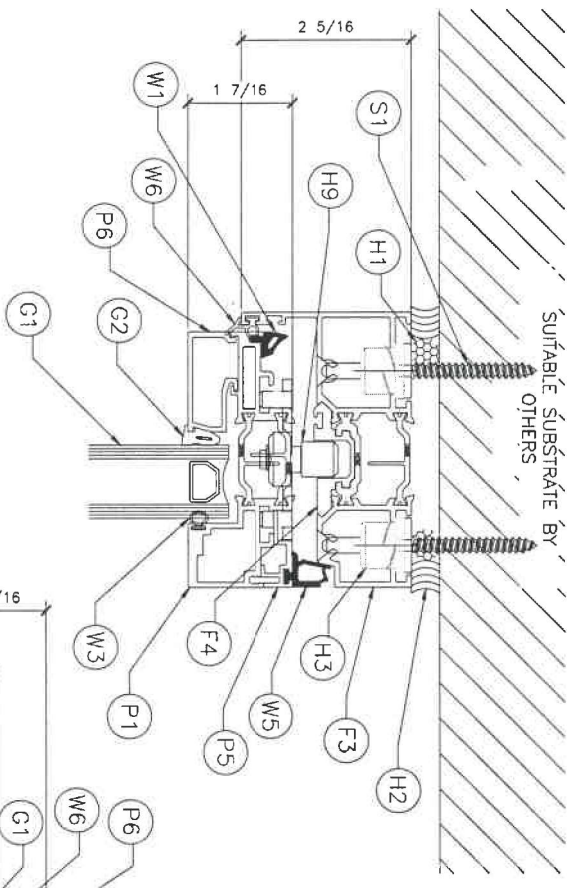
FASTEN MAIN FRAME TO THE ROUGH OPENING ON VERTICALS AND HORIZONTALS WITH 3" NO. 10 SCREW @ EACH ADJUSTABLE LEVELER LOCATION

<b>FENESTRATION TESTING LAB</b>	
REPORT NO:	T20-070
DATE:	1/14/21

Glazing Contractor:  DATE: 10/26/2020 DRAWN BY: RA CHECKED BY: MS SCALE: AS SHOWN JOB #: P10972302	Job Name:  PALISADES S90 BI-FOLDING GLASS DOOR WALL SYSTEM	 <b>C.R. LAURENCE CO.</b> ARCHITECTURAL PRODUCTS 2100 E. 38TH Street, Los Angeles, CA 90058 <a href="http://www.crlaurence.com">www.crlaurence.com</a>		REVISIONS
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**6 DOOR HEAD DETAIL (TOP ROLLER GUIDE)**

ARCH REF: NONE



FASTEN TOP TRACK TO THE ROUGH OPENING ON VERTICALS AND HORIZONTALS WITH 3" NO. 10 SCREW @ EACH ADJUSTABLE LEVELER LOCATION

**FENESTRATION TESTING LAB**

REPORT NO:

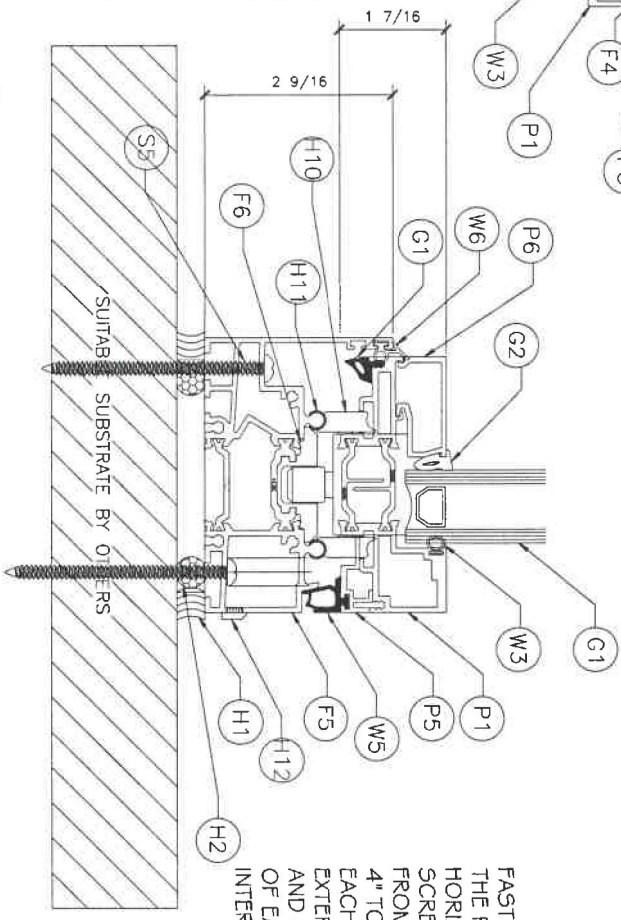
720-070

DATE:

1/14/21

**7 DOOR SILL DETAIL (BOTTOM ROLLER GUIDE)**

ARCH REF: NONE



FASTEN BOTTOM TRACK TO THE ROUGH OPENING ON HORIZONTAL WITH 3" NO. 10 SCREWS @ 4" AND 12" FROM EACH END OFFSET, 4" TO LEFT AND RIGHT OF EACH POST/MULLION ON EXTERIOR SIDE OF SILL, AND 8" TO LEFT AND RIGHT OF EACH POST/MULLION ON INTERIOR SIDE OF SILL.

REVISIONS

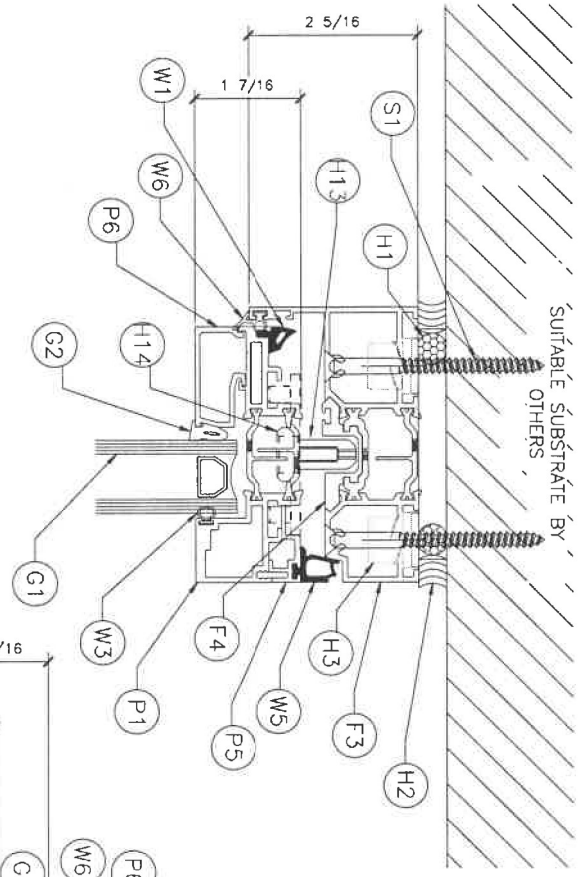
**CRL**  
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 ARCHITECTURAL PRODUCTS  
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 www.crlaurence.com

Job Name:  
 PALISADES S90  
 BI-FOLDING GLASS DOOR  
 WALL SYSTEM

Glazing Contractor:  
 DATE: 10/26/2020  
 DRAWN BY: FA  
 CHECKED BY: MS  
 SCALE: AS SHOWN  
 JOB #: P1C972302  
 PAGE 5 OF 7

**8 DOOR HEAD DETAIL (CATCH BOLT)**

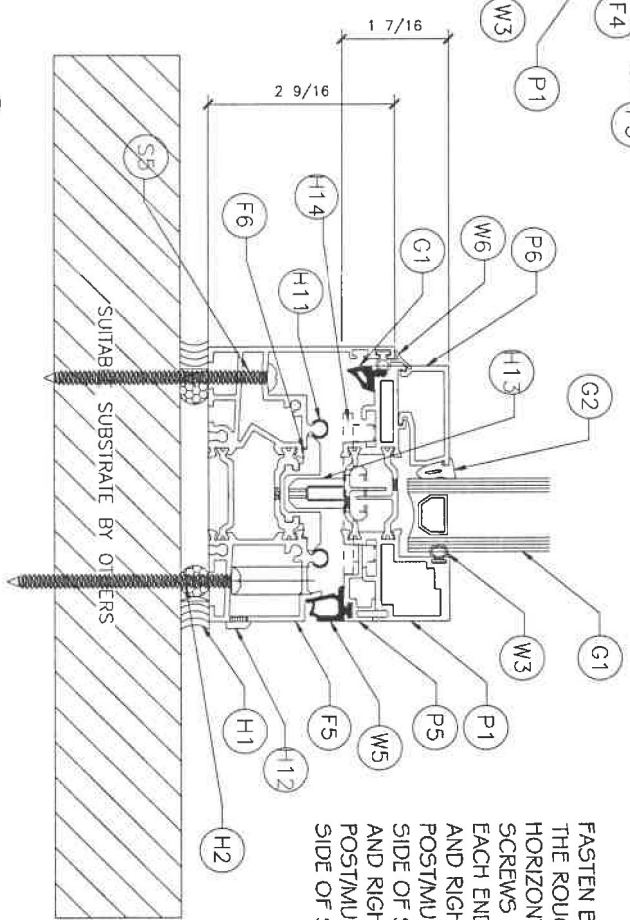
ARCH REF: NONE



FASTEN TOP TRACK TO THE ROUGH OPENING ON VERTICALS AND HORIZONTALS WITH 3" NO. 10 SCREW @ EACH ADJUSTABLE LEVELER LOCATION


**9 DOOR SILL DETAIL (CATCH BOLT)**

ARCH REF: NONE



FASTEN BOTTOM TRACK TO THE ROUGH OPENING ON HORIZONTAL WITH 3" NO. 10 SCREWS @ 4" AND 12" FROM EACH END OFFSET, 4" TO LEFT AND RIGHT OF EACH POSTMULLION ON EXTERIOR SIDE OF SILL, AND 8" TO LEFT AND RIGHT OF EACH POSTMULLION ON INTERIOR SIDE OF SILL

**FENESTRATION TESTING LAB**  
 REPORT NO: T20-070  
 DATE: 1/14/21

DATE: 10/26/2020 DRAWN BY: RA CHECKED BY: MS SCALE: AS SHOWN JOB #: PTC972302	Glazing Contractor:	Job Name: PALISADES S90 BI-FOLDING GLASS DOOR WALL SYSTEM	 C.R. LAURENCE CO. ARCHITECTURAL PRODUCTS 2100 E. 38TH Street, Los Angeles, CA 90058 www.crlaurence.com	REVISIONS
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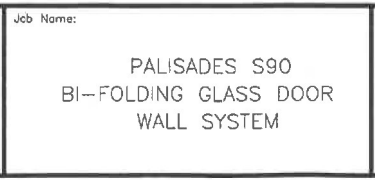
ITEM		PT. NO.	PART DESCRIPTION
F1	MAIN FRAME	S85HUAMB_	S85 - LATERAL FRAME (HINGED JAMB)
F2		S85JAVBSNAP	S85 - JAMB SNAP
F3		S85HEAD_	S85 - TOP TRACK
F4		S85GU1DETOP	S85 - GUIDE TOP TRACK
F5		S85OSS1LL_	S85 - SURFACE-MOUNTED OUTSWING SILL / BOTTOM TRACK
F6		S85GU1DEBOTTOM	S85 - LATERAL FRAME (HINGED JAMB)
P1	PANEL COMPONENTS	S85PANEL_	S85 - PANEL (INSWING & OUTSWING)
P2		S85GLV_	S85 - PULL HANDLE
P3		S85JAMBEXT_	S85 - PANEL JAMB EXTENDER (LOCK & STRIKE)
P4		S85POST_	S85 - POST / REINFORCEMENT MULLION
P5		S85SHGR_	S85 - GASKET RETAINER
P6		S85GLHV_	S85 - GLAZING STOP FOR 1"
W1	WEATHERSTRIP / GASKET	S85GDRS	S85 - GASKET; DOOR RAIL STILE
W2		S85GRP	S85 - GASKET; REINFORCEMENT POST
W3		WH34200300	BULB GASKET
W4		MDAC350203	HOLLOW GASKET
W5		S85GDRH	S85 - GASKET; DOOR RAIL HORIZONTAL
W6		MDAC350208	FLOCKED GASKET
S1	FASTENERS	SMS	NO. 10 X 3" FLAT HEAD SHEET METAL SCREW
S2		M5X6MMSS	M5 X 0.8 MM THREAD, 6 MM LONG, CUP-POINT SET SCREW; HINGE FASTENER
S3		632X14FHMS	6-32 THREAD, 1/4" LONG, PHILLIPS FLAT HEAD SCREWS; HINGE FASTENER
S4		48A126	8-32 FLAT HEAD SCREW; HINGE FASTENER
S5		SMS	NO. 10 X 3" PAN HEAD SHEET METAL SCREW
G1	GLAZING		3/16" TEMPERED GLASS - 5/8" ALUMINUM MILL SPACER - 3/16" TEMPERED GLASS
G2		WH416	WEDGE GASKET
		S85GSH1MC	S85 - GLASS SHIM CORNER
H1	HARDWARE / MISC	EF12C	1/2" CLOSED CELL BACKER ROD
H2		DC795BL	DOW CORNING 795 SILICONE
H3		S85LEVELER	S85 LEVELER; RAPID BLOCK (12MM); FOR TOP TRACK & JAMBS
H4		S85HINGE	S85 - CONCEALED HINGE
H5		MDHANDLE_	Monterey S55/S80 Square HANDLE Standard 3 Points Lock
H6		MDPC050_	Monterey S55/S55R 3-Point LOCK (Lock Body + Cylinder In/Out Covers)
H7		MDS55STR1KE1.	Monterey S55/S55R SINGLE STRIKE on Panel for 3pt Lock (Top & Bottom)
H8		MDS55STR1KE20L1R	Monterey S55/S55R DOUBLE STRIKE on Panel for 3pt Lock
H9		S85TGU1DE	S85 - TOP ROLLER GUIDE
H10		S85BROLLER	S85 BOTTOM ROLLER GUIDE; 4PCS BEARING WHEEL
H11		6701A20	S.S.TRACK COVER
H12		MDWHCB	WEEP HOLE COVER (BLACK) / END CAP
H13		S85CATCHBOLT	S85 - CATCH BOLT
H14		S85BOLTGU1DE	S85 - TOP & BOTTOM BOLT GUIDE
		S85COVERP	S85 - COVER FOR POST; TOP & BOTTOM
		S85COVERJE	S85 - COVER FOR JAMB EXTENDER; TOP & BOTTOM
		S85BLOCKHJBR1LOR	S85 - BLOCK FOR HINGE JAMB BOTTOM RAISED; INSWING LH + OUTSWING RH
		S85BLOCKHJBR1ROL	S85 - BLOCK FOR HINGE JAMB BOTTOM RAISED; INSWING RH + OUTSWING LH
		S85BLOCKHJT1LOR	S85 - BLOCK FOR HINGE JAMB TOP; INSWING LH + OUTSWING RH
		S85BLOCKHJT1ROL	S85 - BLOCK FOR HINGE JAMB TOP; INSWING RH + OUTSWING LH
		S85CORNERS	S85 - CORNER CLIP "SMALL"
		S85CORNERL	S85 - CORNER CLIP "LARGE"
		S85CATCH_HSCC	S85 - CATCH
		S85CATCHBP	S85 - CATCH BACKPLATE
		S85CATCHBODY	S85 - CATCH BODY
		S85EDBRL	S85 - END DAM FOR BOTTOM RAISED TRACK; LH
		S85EDBRR	S85 - END DAM FOR BOTTOM RAISED TRACK; RH
		S85EDTL	S85 - END DAM FOR TOP TRACK; LH
		S85EDTR	S85 - END DAM FOR TOP TRACK; RH
		1420TRSS316ASTMA19396	ASTM A193 Grade 88M Type 316 SS Threaded Rod 1/4"-20 Thread, 8' Length
		520B3080N	Cylinder w/ Thumbturn. Short Com. REF. 520B3080N w/ Thumbturn in the 30 mm port

REPORT NO: 7-20-070  
 DATE: 1/14/21  
 FENESTRATION TESTING LAB

Glazing Contractor:  
 DATE: 10/26/2020  
 DRAWN BY: FA  
 CHECKED BY: MS  
 SCALE: AS SHOWN  
 JOB #: PT0972202

Job Name:

PALISADES S90  
 BI-FOLDING GLASS DOOR  
 WALL SYSTEM



CERTIFIED ISO9000 COMPANY  
 REVISIONS