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CR LAURENCE CO., INC.

THERMAL PERFORMANCE TEST REPORT

SCOPE OF WORK
PALISADES S90 BI-FOLDING DOORS WITH FRAME (DOUBLE)

REPORT NUMBER
L4173.01-301-46 R1

TEST DATE
10/27/20

ISSUE DATE **REVISED DATE**
01/27/21 02/02/21

PAGES
42

DOCUMENT CONTROL NUMBER
RTTDS-R-AMER-Test-2822(a) (07/01/20)
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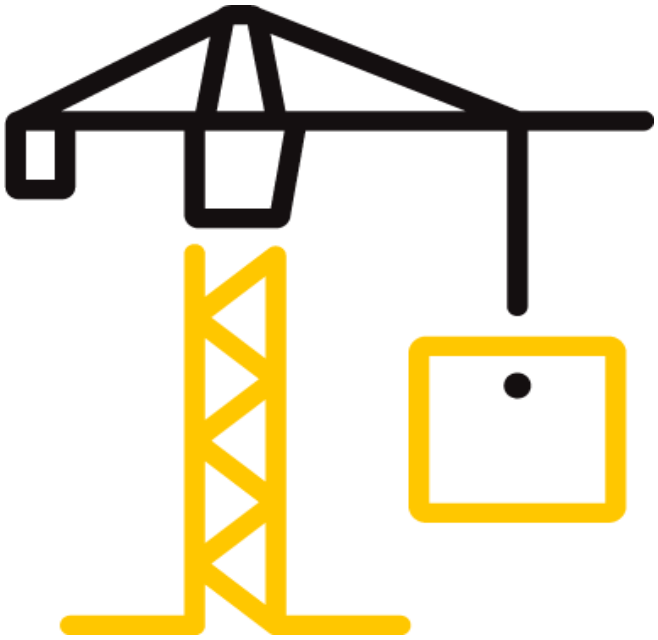

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TEST REPORT FOR CR LAURENCE CO., INC.
Report No.: L4173.01-301-46 R1
Date: 02/02/21

REPORT ISSUED TO

CR LAURENCE CO., INC.
2100 East 38th Street
Vernon, California 90058

SECTION 1

SCOPE

SERIES/MODEL: Palisades S90
TYPE: Bi-Folding Doors with Frame (Double)

Intertek Building & Construction (Intertek B&C) was contracted by CR Laurence Co., Inc. to evaluate the thermal performance per NFRC 102-2020. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in Fresno, California.

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, or other pertinent project documentation, will be retained for the entire test record retention period. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of two and a half years from the submittal date to the Inspection Agency and no more than five years from the test date.

For INTERTEK B&C:

COMPLETED BY	William Simon Smeds	**REVIEWED BY**	Kenny C. White
TITLE	Technician	**TITLE**	Laboratory Manager, IIRC
SIGNATURE	Digitally Signed by: William Smeds	**SIGNATURE**	Digitally Signed by:Kenny C. White
DATE	02/02/21	**DATE**	02/02/21

WSS:ss

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

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SECTION 2
SUMMARY OF TEST RESULTS

Standardized U-factor (Ust): 0.37 Btu/hr·ft^2·F (CTS Method)

SECTION 3
TEST SPECIMEN SUMMARY

SERIES/MODEL	Palisades S90 Bi-Folding Doors with Frame (Double)
TYPE	Bi-Folding Doors with Frame (Double)
OVERALL SIZE	75-1/2" x 81-1/2" (1918 mm x 2070 mm) (Model Size)
NFRC STANDARD SIZE	75.6" x 82.3" (1920 mm wide x 2090 mm high)
TEST SAMPLE SUBMITTED BY	Client
TEST SAMPLE SUBMITTED FOR	Validation for Initial Certification (Production Line Unit) & Plant Qualification

SECTION 4
TEST METHOD

The specimens were evaluated in accordance with the following:

NFRC 102-2020, Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems

SECTION 5
MATERIAL SOURCE/INSTALLATION

The test specimen was provided by the client.

The test sample was installed in a vertical orientation, the exterior of the specimen was exposed to the cold side.

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
William Simon Smeds	Intertek B&C

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SECTION 7
TEST SAMPLE DESCRIPTION

Frame

MATERIAL	AT (0.98"): Aluminum with Thermal Breaks - All Members		
SIZE	75-1/2" x 81-1/2" (Model Size)		
DAYLIGHT OPENING	N/A	**GLAZING METHOD**	N/A
EXTERIOR COLOR	Black	**EXTERIOR FINISH**	Anodized
INTERIOR COLOR	Black	**INTERIOR FINISH**	Anodized
CORNER JOINERY	Square Cut / Screws / Sealed		

Primary Panel

MATERIAL	AT (0.98"): Aluminum with Thermal Breaks - All Members		
SIZE	33-5/8" x 79-1/4"		
DAYLIGHT OPENING	31-1/4" x 76"	**GLAZING METHOD**	Interior
EXTERIOR COLOR	Black	**EXTERIOR FINISH**	Anodized
INTERIOR COLOR	Black	**INTERIOR FINISH**	Anodized
CORNER JOINERY	Mitered / Corner Keys / Sealed		

Secondary Panel

MATERIAL	AT (0.98"): Aluminum with Thermal Breaks - All Members		
SIZE	33-5/8" x 79-1/4"		
DAYLIGHT OPENING	31-1/4" x 76"	**GLAZING METHOD**	Interior
EXTERIOR COLOR	Black	**EXTERIOR FINISH**	Anodized
INTERIOR COLOR	Black	**INTERIOR FINISH**	Anodized
CORNER JOINERY	Mitered / Corner Keys / Sealed		

Glazing Information

LAYER 1	3/16"	PPG Solarban 70XL (e=0.018*, #2)	
GAP	0.63"	A1-D: Aluminum Spacer	90% Argon*
LAYER 2	3/16"	Clear	
GAS FILL METHOD	Single-Probe Method*		

**Stated per Client/Manufacturer*
N/A Non-Applicable

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SECTION 7 (CONTINUED)

TEST SAMPLE DESCRIPTION (CONTINUED)

Weatherstripping

DESCRIPTION	QUANTITY	LOCATION
1/8" Felt covered hollow bulb gasket with 1/8" leaf	1 Row	Perimeter of frame.
3/4" Rubber post gasket with 3/8" leaf	1 Row	Jambs.
3/4" Rubber post gasket with 3/8" leaf	2 Rows	Posts.
3/8" Hollow bulb	1 Row	Top and bottom rail of exterior panels.
0.187" x 0.310" Polypile gasket	1 Row	Head.
1/8" Hollow foam gasket	2 Rows	Stiles.
1/8" Hollow foam gasket	2 Rows	Even supplement (post).
1/8" Hollow foam gasket	1 Row	Interior side of each rail.

Hardware

DESCRIPTION	QUANTITY	LOCATION
Latch lock with pin	1	Lateral hinge jamb.
Hinge	20	Jambs, posts, panels.

Drainage

DRAINAGE METHOD	SIZE	QUANTITY	LOCATION
Weep slot	1-3/4" x 1/4"	4	Sill.

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SECTION 8
THERMAL TRANSMITTANCE (U-FACTOR): MEASURED TEST DATA

Heat Flows

1.	Total Measured Input into Metering Box (Qtotal)	1317.29	Btu/hr
2.	Surround Panel Heat Flow (Qsp)	82.38	Btu/hr
3.	Surround Panel Thickness	4.00	inches
4.	Surround Panel Conductance	0.0463	$Btu/hr \cdot ft^2 \cdot F$
5.	Metering Box Wall Heat Flow (Qmb)	27.97	Btu/hr
6.	EMF vs Heat Flow Equation (equivalent information)	0.0207*EMF + 0.000	
7.	Flanking Loss Heat Flow (Qfl)	36.94	Btu/hr
8.	Net Specimen Heat Loss (Qs)	1170.00	Btu/hr

Areas

1.	Test Specimen Projected Area (As)	42.73	ft^2
2.	Test Specimen Projected Frame Area (Af)	9.74	ft^2
3.	Test Specimen Projected Glazing Area (Ag)	32.99	ft^2
4.	Metering Box Opening Area (Amb)	69.44	ft^2
5.	Metering Box Baffle Area (Ab1)	60.56	ft^2
6.	Surround Panel Interior Exposed Area (Asp)	26.71	ft^2

Test Conditions

1.	Average Metering Room Air Temperature (th)	69.79	F
2.	Average Cold Side Air Temperature (tc)	-0.50	F
3.	Average Guard/Environmental Air Temperature	73.99	F
4.	Metering Room Average Relative Humidity	8.87	%
5.	Metering Room Maximum Relative Humidity	9.00	%
6.	Metering Room Minimum Relative Humidity	8.76	%
7.	Measured Cold Side Wind Velocity (Perpendicular Flow)	11.22	mph
8.	Measured Warm Side Wind Velocity (Parallel Flow)	0.04	mph
9.	Measured Static Pressure Difference Across Test Specimen	0.00" ± 0.04"	H_2O

Average Surface Temperatures

1.	Metering Room Surround Panel	66.29	F
2.	Cold Side Surround Panel	-0.33	F

Results

1.	Thermal Transmittance of Test Specimen (Us)	0.39	$Btu/hr \cdot ft^2 \cdot F$
2.	Standardized Thermal Transmittance of Test Specimen (Ust)	0.37	$Btu/hr \cdot ft^2 \cdot F$

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SECTION 9
THERMAL TRANSMITTANCE (U-FACTOR): CALCULATED TEST DATA

CTS Method Results

1.	Warm Side Surface Emittance of CTS (e1)	0.84	
2.	Warm Side Area-Weighted Surface Emittance of Specimen Frame (ef1)	0.80	
3.	Warm Side Area-Weighted Surface Emittance of Specimen Glazing (eg1)	0.84	
4.	Warm Side Surface Emittance of Surround Panel (esp1)	0.90	
5.	Warm Side Area-Weighted Surface Emittance in View of the Baffle (es1)	0.85	
6.	Warm Side Baffle Emittance (eb1)	0.92	
7.	Cold Side Baffle Emittance (eb2)	N/A	
8.	Equivalent Warm Side Surface Temperature (t1)	51.20	F
9.	Equivalent Cold Side Surface Temperature (t2)	4.79	F
10.	Warm Side Baffle Surface Temperature	69.64	F
11.	Cold Side Baffle Surface Temperature	N/A	F
12.	Measured Warm Side Surface Conductance (hh)	1.47	$Btu/hr \cdot ft^2 \cdot F$
13.	Measured Cold Side Surface Conductance (hc)	5.18	$Btu/hr \cdot ft^2 \cdot F$
14.	Test Specimen Thermal Conductance (Cs)	0.59	$Btu/hr \cdot ft^2 \cdot F$
15.	Convection Coefficient (Kc)	0.34	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
16.	Radiative Test Specimen Heat Flow (Qr1)	603.50	Btu/hr
17.	Conductive Test Specimen Heat Flow (Qc1)	566.51	Btu/hr
18.	Radiative Heat Flux of Test Specimen (qr1)	14.12	$Btu/hr \cdot ft^2 \cdot F$
19.	Convective Heat Flux of Test Specimen (qc1)	13.26	$Btu/hr \cdot ft^2 \cdot F$
20.	Standardized Warm Side Surface Conductance (hsth)	1.21	$Btu/hr \cdot ft^2 \cdot F$
21.	Standardized Cold Side Surface Conductance (hstc)	5.28	$Btu/hr \cdot ft^2 \cdot F$
22.	Standardized Thermal Transmittance (Ust)	0.37	$Btu/hr \cdot ft^2 \cdot F$

SECTION 10
TEST DURATION

1. The environmental systems were started at 12:16 hours, 10/26/20.
2. The test parameters were considered stable for two consecutive four hour test periods from 23:20 hours, 10/26/20 to 07:20 hours, 10/27/20.
3. The thermal performance test results were derived from 03:20 hours, 10/27/20 to 07:20 hours, 10/27/20.

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SECTION 11
GLAZING DEFLECTION

	Left Panel	Right Panel
EDGE GAP WIDTH	0.63"	0.63"
ESTIMATED CENTER GAP WIDTH upon receipt of specimen in laboratory (after stabilization)	0.70"	0.71"
CENTER GAP WIDTH at laboratory ambient conditions on day of testing	0.70"	0.71"
CENTER GAP WIDTH at test conditions	0.58"	0.60"

Glass collapse determined using a digital glass and air space meter

The sample was inspected for the formation of frost or condensation, which may influence the surface temperature measurements. The sample showed no evidence of condensation/frost at the conclusion of the test.

"This test method does not include procedures to determine the heat flow due to either air movement through the specimen or solar radiation effects. As a consequence, the thermal transmittance results obtained do not reflect performances which are expected from field installations due to not accounting for solar radiation, air leakage effects, and the thermal bridge effects that have the potential to occur due to the specific design and construction of the fenestration system opening. The latter can only be determined by in-situ measurements. Therefore, it is important to recognize that the thermal transmittance results obtained from this test method are for ideal laboratory conditions and should only be used for fenestration product comparisons and as input to thermal performance analyses which also include solar, air leakage and thermal bridge effects."

Required annual calibrations for the Intertek B&C, 'thermal test chamber' (ICN 004287) in Fresno, California were last conducted in January 2020 in accordance with Intertek B&C calibration procedure. A CTS Calibration verification was performed July 2020. A Metering Box Wall Transducer and Surround Panel Flanking Loss Characterization was performed May 2020.

The reported Standardized Thermal Transmittance (Ust) was determined using CTS Method, per Section 9.2(A) of NFRC 102.

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SECTION 12
CTS CALIBRATION DATA

1.	CTS Test Date	11/07/19	
2.	CTS Size	43.06	ft^2
3.	CTS Glass/Core Conductance	0.40	$Btu/hr \cdot ft^2 \cdot F$
4.	Warm Side Air Temperature	69.81	F
5.	Cold Side Air Temperature	-0.50	F
6.	Warm Side Average Surface Temperature	55.11	F
7.	Cold Side Average Surface Temperature	3.49	F
8.	Convection Coefficient (Kc)	0.34	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
9.	Measured Cold Side Surface Conductance (hc)	5.18	$Btu/hr \cdot ft^2 \cdot F$
10.	Measured Thermal Transmittance	0.32	$Btu/hr \cdot ft^2 \cdot F$

ANSI/NCSL Z540-2-1997 type B uncertainty for this test was 1.74%.

"Ratings included in this report are for submittal to an NFRC licensed IA for certification purposes and are not meant to be used for labeling purposes. Only those options identified on a valid Certificate of Authorization (CA) are to be used for labeling purposes."

The direction of heat transfer was from the interior (warm side) to the exterior (cold side) of the specimen. The ratings were rounded in accordance to NFRC 601, NFRC Unit and Measurement Policy. The data acquisition frequency is 5 minutes.

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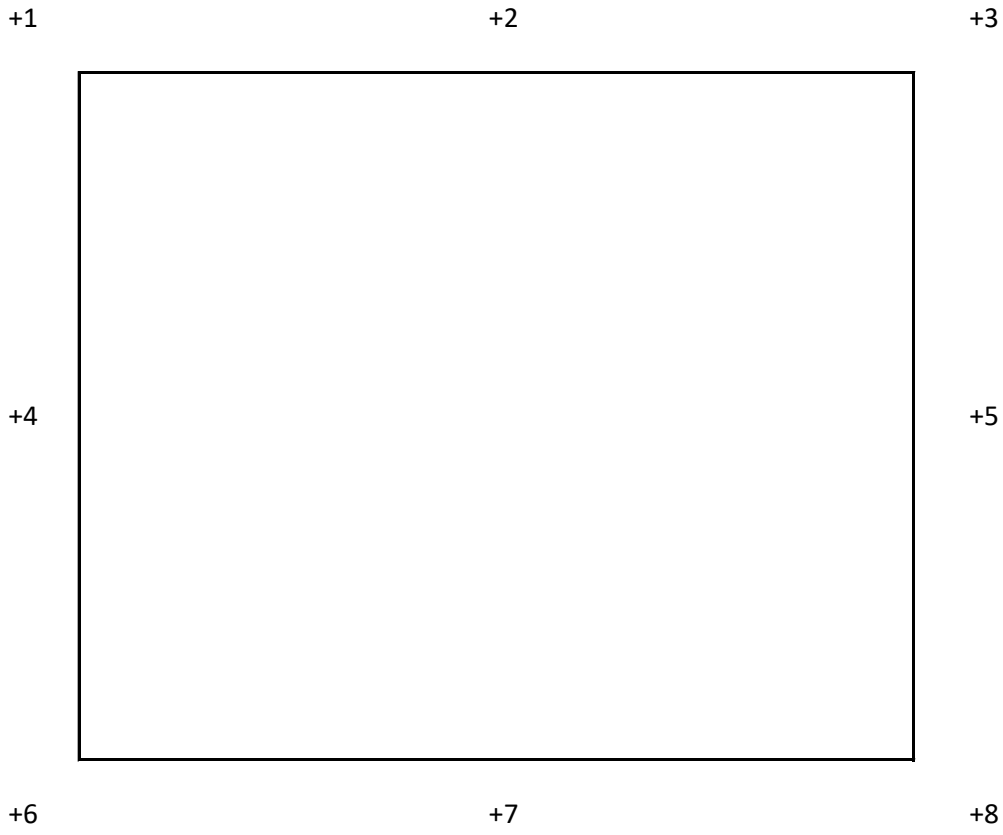
SECTION 13
SURROUND PANEL WIRING DIAGRAM



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SECTION 14
BAFFLE WIRING DIAGRAM

+1	+2	+3	+4	+5	+6
+7	+8	+9	+10	+11	+12
+13	+14	+15	+16	+17	+18
+19	+20	+21	+22	+23	+24
+25	+26	+27	+28	+29	+30

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SECTION 15
SUBMITTAL FORM AND DRAWINGS

The test specimen drawings which follow 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.

NFRC PRODUCT CERTIFICATION PROGRAM

Submittal Form for Test Samples

For use by Manufacturers, Lineal Suppliers and Fabricators

1. Information on Production of the Test Sample (complete **ALL** fields):

Manufacturer: C.R. Laurence Co., Inc. Date of sample manufacture: 9/3/2020

Plant Address where manufactured: 2200 E. 55th St

City: Vernon State: CA Zip Code: 90058

Name of IA: Associated Laboratories Inc. Phone: (214) 565-1094 Fax:

2. Product Information (complete **APPLICABLE** fields):

Existing Product Line ID (CPD) No.: Product/Operator Type (Table 4-3 of NFRC 100): Side-Hinged Exterior Door

Series/Model: Palisades S90

3. Test sample is being submitted for (select **ONE**):

a. ☐ Validation for Initial Certification (prototype only) no plant qualification

b. ■ Validation for Initial Certification or Recertification (production line unit) & plant qualification

c. ☐ Plant Qualification Only (production line unit)

d. ☐ Test Only Alternative (production line unit) & plant qualification

I, Roman Aguiniga , as the designated agent for C.R. Laurence Co., Inc. do hereby attest that the foregoing information is true to the best of my information, knowledge, and belief. Further, if the unit is identified in Section 3 as a production line unit, I hereby authorize the NFRC-accredited testing laboratory to send a copy of the test report to the IA identified above for plant qualification purposes pursuant to the NFRC Product Certification Program.

Signature: Roman A Digitally signed by Roman Aguiniga Date: 2020.10.06 09:06:17 -07'00' Date: 10/6/20

For Laboratory Use Only

1. Laboratory: Intertek
2. Date Sample Received: 10/2/2020 Test Report #: L4173.01-301-46
3. Date Sample Tested: 10/6/2020 By: Simon Smeds
4. Modifications made: None

ITEM		PT. NO.	PART DESCRIPTION
F1	MAIN FRAME	S85HJAMB_	S85 – LATERAL FRAME (HINGED JAMB)
F2		S85JAMBSNAP	S85 – JAMB SNAP
F3		S85HEAD_	S85 – TOP TRACK
F4		S85GU1DETOP	S85 – GUIDE TOP TRACK
F5		S850SS1LL_	S85 – SURFACE–MOUNTED OUTSWING SILL / BOTTOM TRACK
F6		S85GU1DEBOTTOM	S85 – GUIDE BOTTOM TRACK
P1	PANEL COMPONENTS	S85PANEL_	S85 – PANEL (INSWING & OUTSWING)
P2		S85GLV_	S85 – PULL HANDLE
P3		S85POST_	S85 – POST / REINFORCEMENT MULLION
P4		S85EVEN_	S85 – EVEN SUPPLEMENT
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		MDAC350208	FLOCKED GASKET
W5		S85GDRH	S85 – GASKET; DOOR RAIL HORIZONTAL
W6		30018745BKWP	WOOL PILE GASKET – MEDIUM DENSITY
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		1" INSULATED GLASS (SEE REPORT FOR GLAZING AND SPACER DETAILS)
G2		WH416	WEDGE GASKET
		S85GSH1MC	S85 – GLASS SHIM CORNER
H1	HARDWARE / MISC	S85LEVELER	S85 LEVELER; RAPID BLOCK (12MM); FOR TOP TRACK & JAMBS
H2		S85H1NGE	S85 – CONCEALED HINGE
H3		S85TGU1DE	S85 – TOP ROLLER GUIDE
H4		S85CATCHBOLT	S85 – CATCH BOLT
H5		S85BOLTGU1DE	S85 – TOP & BOTTOM BOLT GUIDE
H6		S85BROLLER	S85 BOTTOM ROLLER GUIDE; 4PCS BEARING WHEEL
H7		6701A20	S.S. TRACK COVER
H8		MDWHCB	WEEP HOLE COVER (BLACK) / END CAP
		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
		S85COVERET	S85 – COVER FOR EVEN SUPPLEMENT; TOP
		S85COVEREV	S85 – COVER FOR EVEN SUPPLEMENT; BOTTOM
		S85CORNERS	S85 – CORNER CLIP "SMALL"
		S85CORNERL	S85 – CORNER CLIP "LARGE"
		S85CATCH_HSCC	S85 – CATCH
		S85CATCHBP	S85 – CATCH BACKPLATE
		S85CATCHBODY	S85 – CATCH BODY
		1420TRSS316ASTMA19396	ASTM A193 Grade B8M Type 316 SS Threaded Rod 1/4"–20 Thread, 8' Length

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Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

Anodized Finish

REVISIONS

CERTIFIED ISO9000 COMPANY

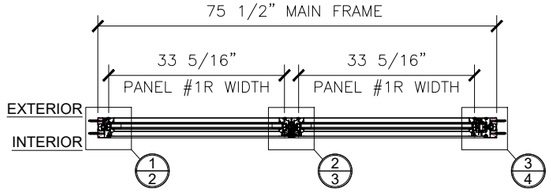
C.R.LAURENCE CO.
ARCHITECTURAL PRODUCTS
2100 E. 38TH Street, Los Angeles, CA 90058
www.crlaurence.com

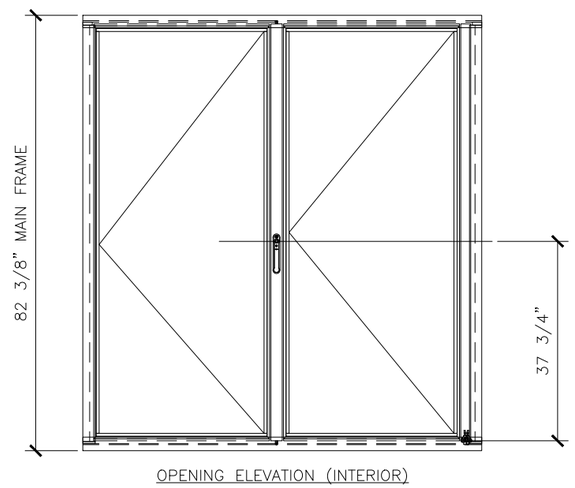
Job Name:
PALISADES S90
BI–FOLDING GLASS DOOR
WALL SYSTEM

Glazing Contractor:

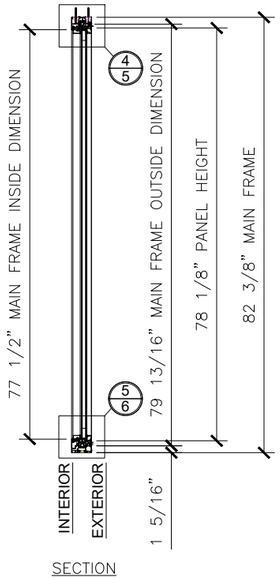
DATE: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146

OPENING PLAN VIEW (CLOSED)

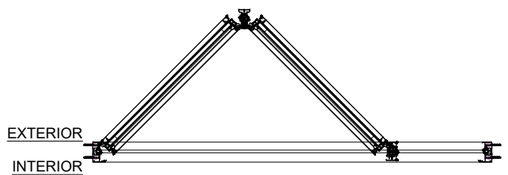


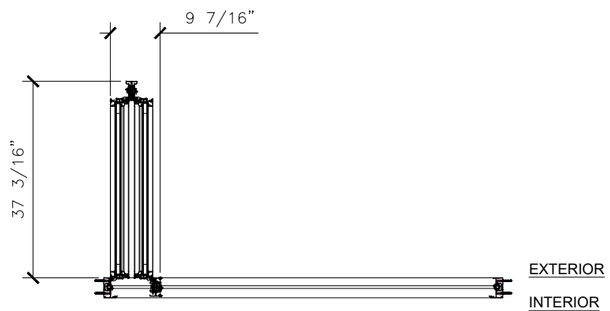


OPENING ELEVATION (INTERIOR)



SECTION





PALISADES DOOR CONFIGURATION	
PTC #	1350911
CUSTOMER PO #	CR Laurence Co., Inc
SYSTEM:	S90
FRAME & PANEL FINISH:	DARK BRONZE ANODIZE – CLASS 1
HARDWARE FINISH:	STAINLESS STEEL
SILL:	RAISED
SWING:	OUT
GLAZING:	1" INSULATED (3/16"x5/8"x3/16") BY OTHERS
QTY:	1 (ONE) THUS
CATCH LOCK	
HINGE PULL	

* NOMINAL GLASS SETTING BLOCKS HAVE BEEN INSTALLED IN ALL 4 (FOUR) CORNERS OF EACH MONTEREY PANEL. ADDITIONAL, VARYING THICKNESS, CORNER BLOCKS ARE SHIPPED LOOSE WITH MONTEREY SYSTEMS. THESE CORNER BLOCKS ARE TO BE USED BY GLASS INSTALLER TO ACHIEVE PROPER BLOCKAGE WITHIN PANEL FRAMES.

intertek
Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

REVISIONS

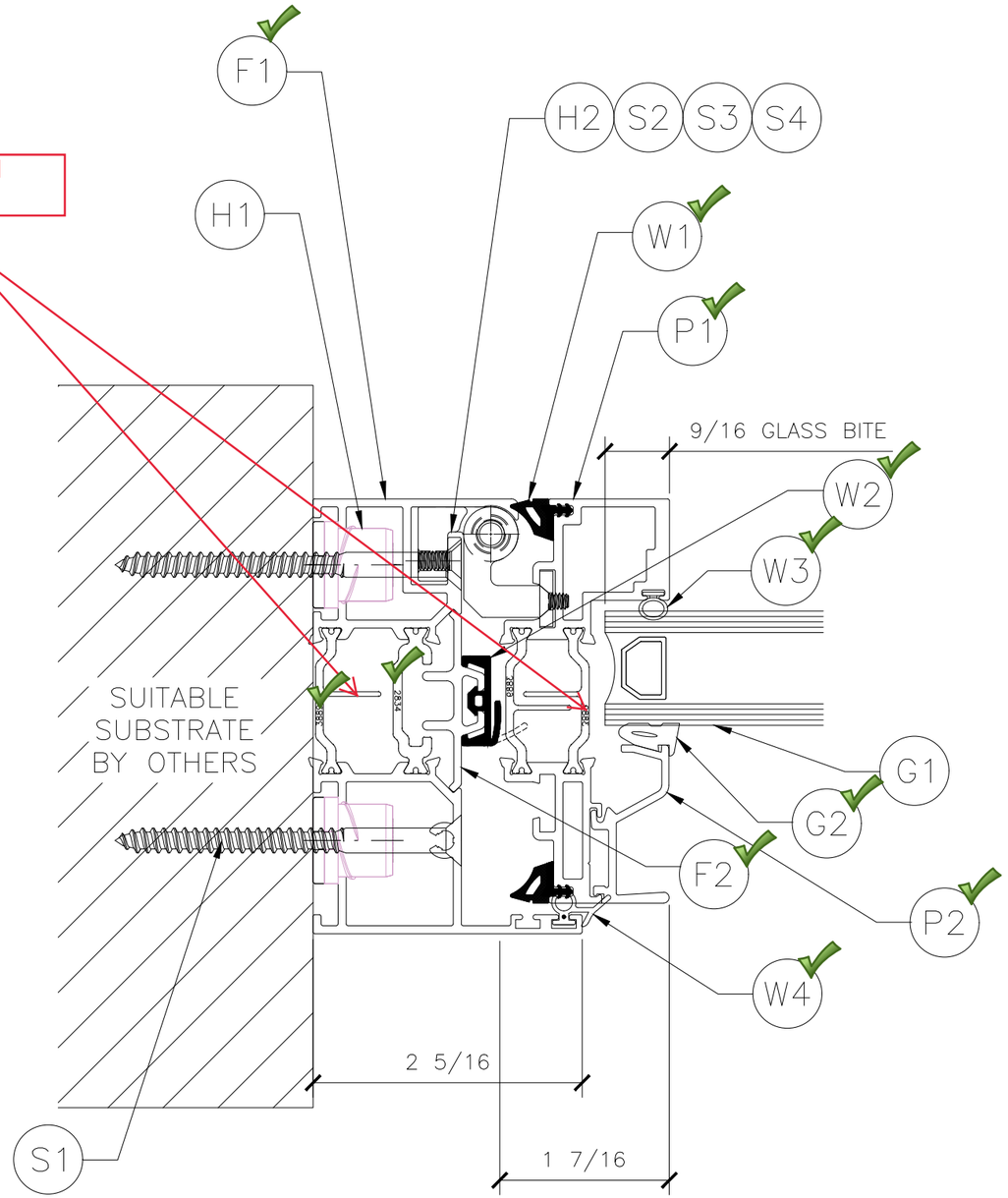
CERTIFIED ISO9000 COMPANY
C.R.LAURENCE CO.
ARCHITECTURAL PRODUCTS
2100 E. 38TH Street, Los Angeles, CA 90058
www.crlaurence.com

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

Glazing Contractor:

DATE: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146

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



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Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

1 HINGED JAMB DETAIL

ARCH REF: NONE

REVISIONS

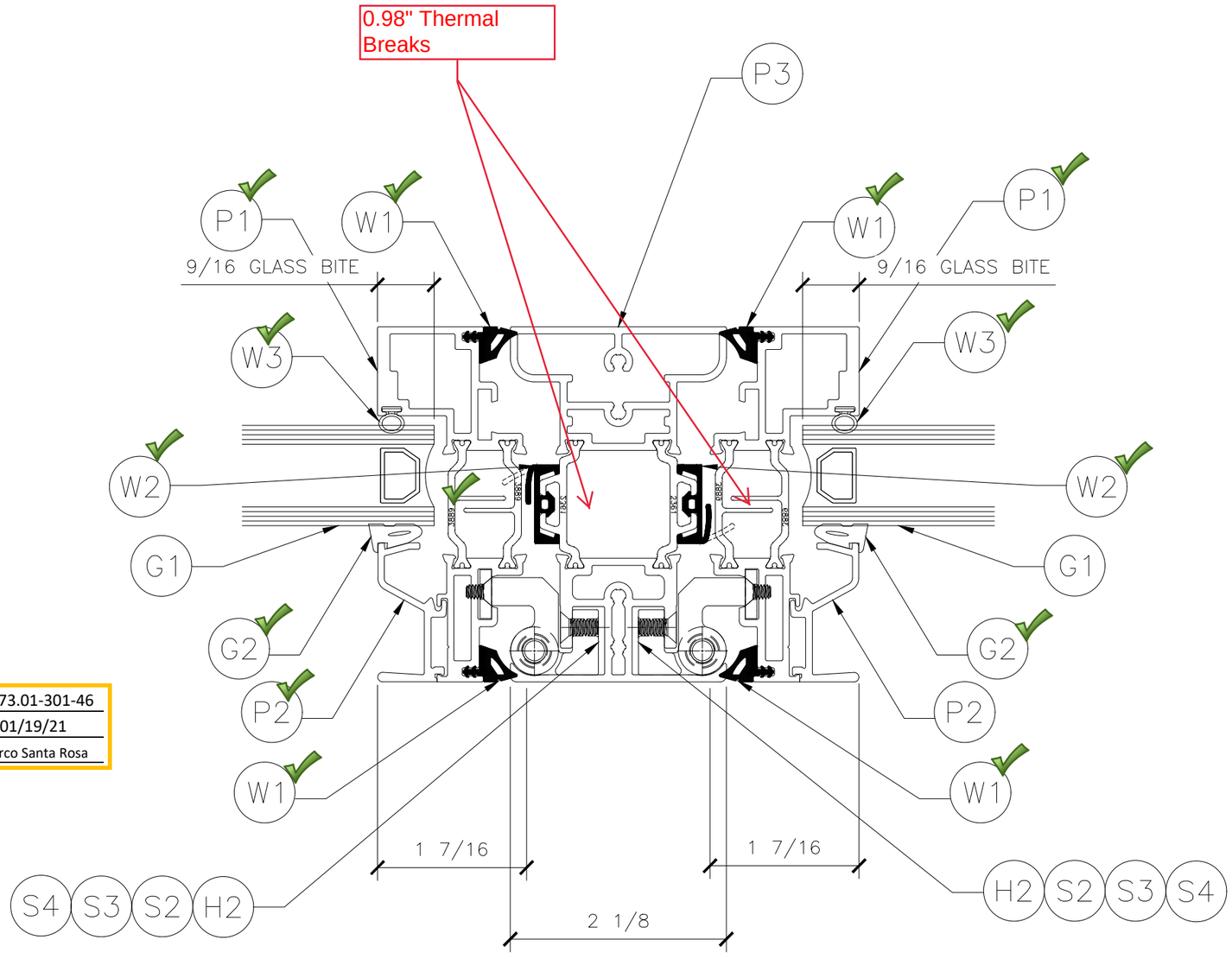
CERTIFIED ISO9000 COMPANY

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: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146



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Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

2 TYPICAL HINGES DETAIL

ARCH REF: NONE

REVISIONS

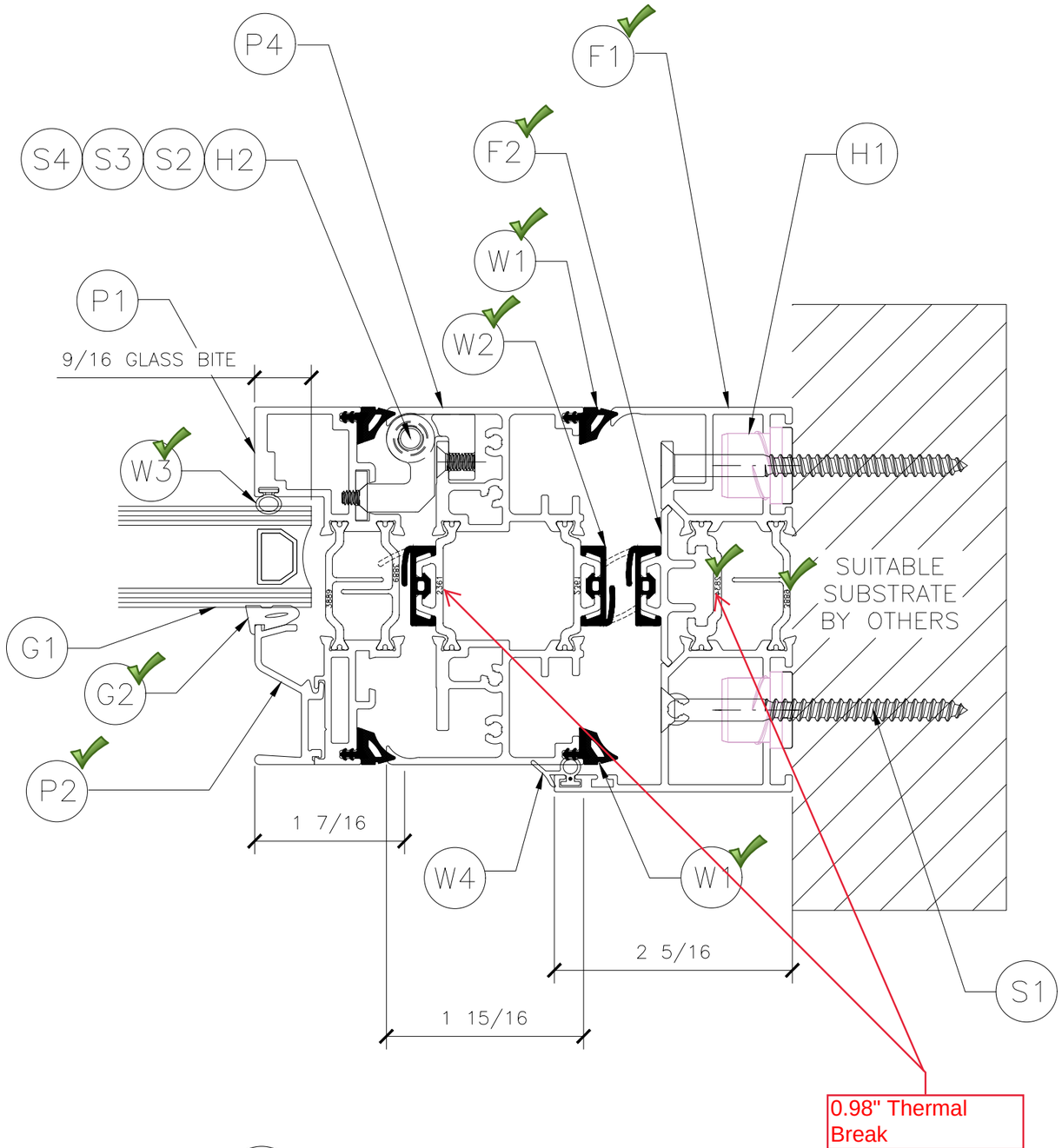
CERTIFIED ISO9000 COMPANY

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: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146



3 POST JAMB DETAIL

ARCH REF: NONE

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

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Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

REVISIONS

CERTIFIED ISO9000 COMPANY
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: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146

4 DOOR HEAD DETAIL

ARCH REF: NONE

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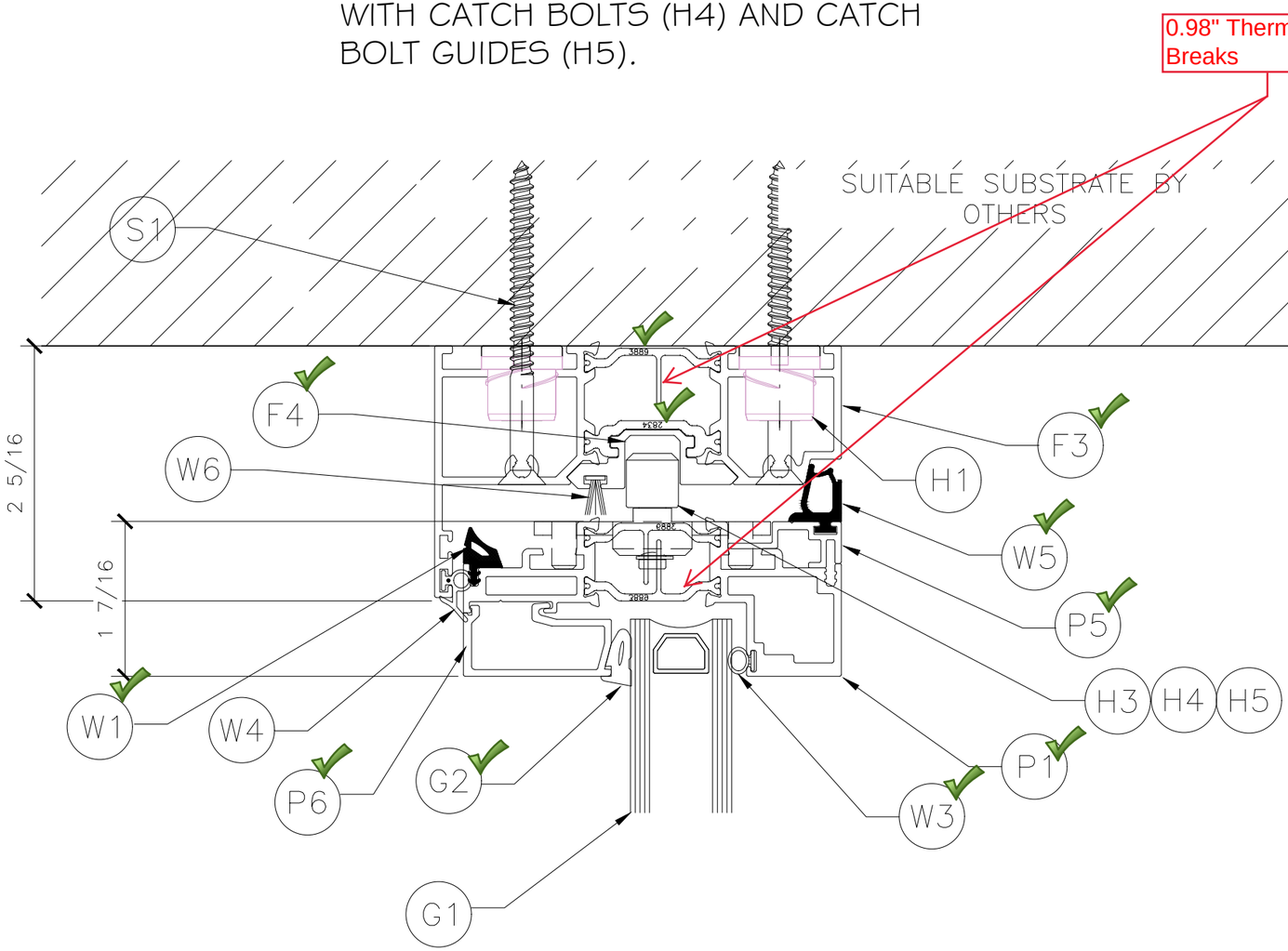
	Report #:	L4173.01-301-46
	Date:	01/19/21
	Verified by:	Marco Santa Rosa

TOP ROLLER GUIDE SHOWN BELOW (H3). POST WITH CATCH LOCKS ARE REPLACED WITH CATCH BOLTS (H4) AND CATCH BOLT GUIDES (H5).

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



REVISIONS

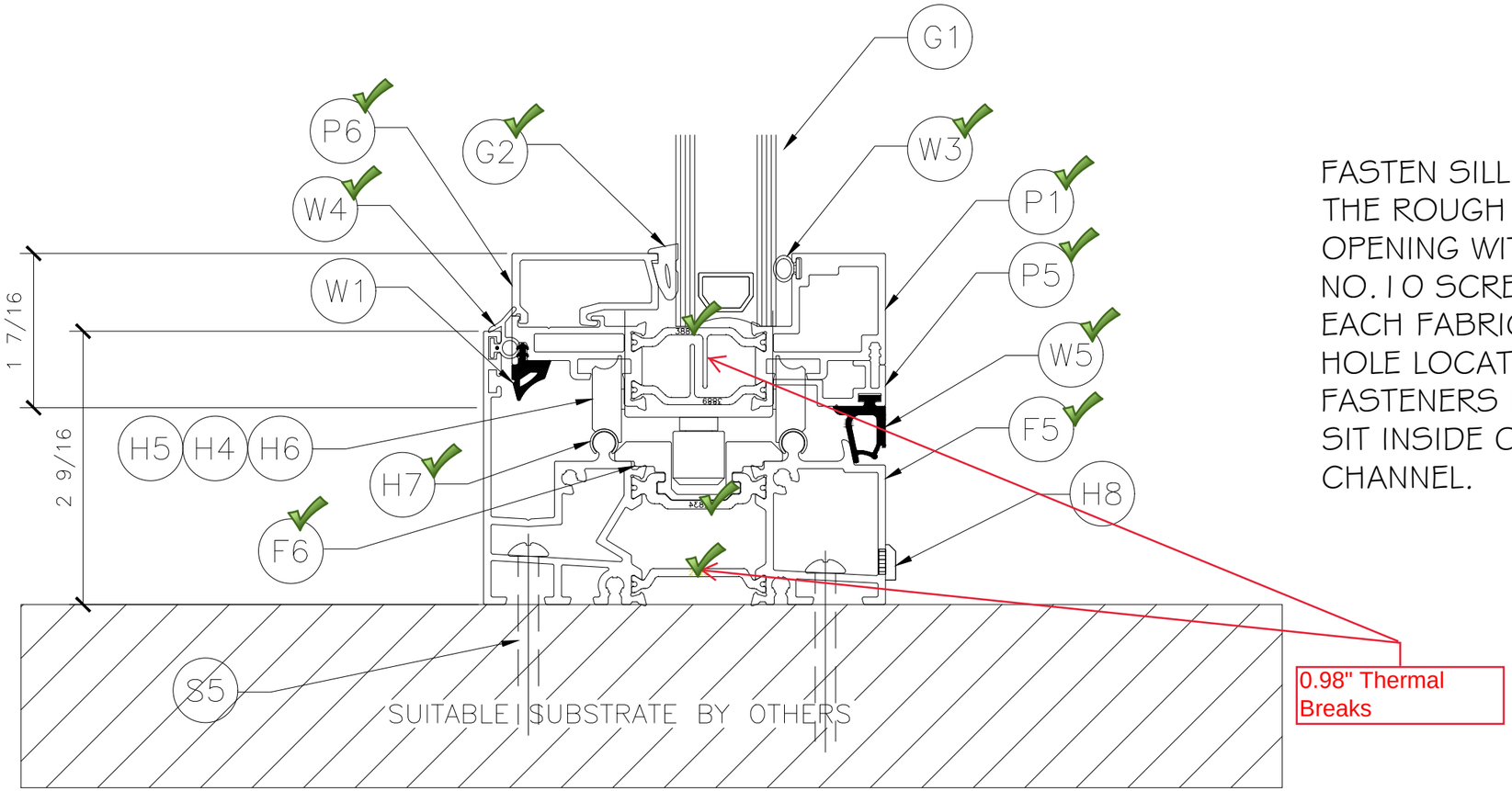
C.R.LAURENCE CO.
ARCHITECTURAL PRODUCTS
2100 E. 38TH Street, Los Angeles, CA 90058
www.crlaurence.com

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

Glazing Contractor:

DATE: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146

BOTTOM ROLLER SHOWN BELOW (H6). POST WITH CATCH LOCKS ARE REPLACED WITH CATCH BOLTS (H4) AND CATCH BOLT GUIDES (H5).



FASTEN SILL TO THE ROUGH OPENING WITH NO. 10 SCREW @ EACH FABRICATED HOLE LOCATION. FASTENERS MUST SIT INSIDE OF SILL CHANNEL.

5 DOOR SILL DETAIL

ARCH REF: NONE

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Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

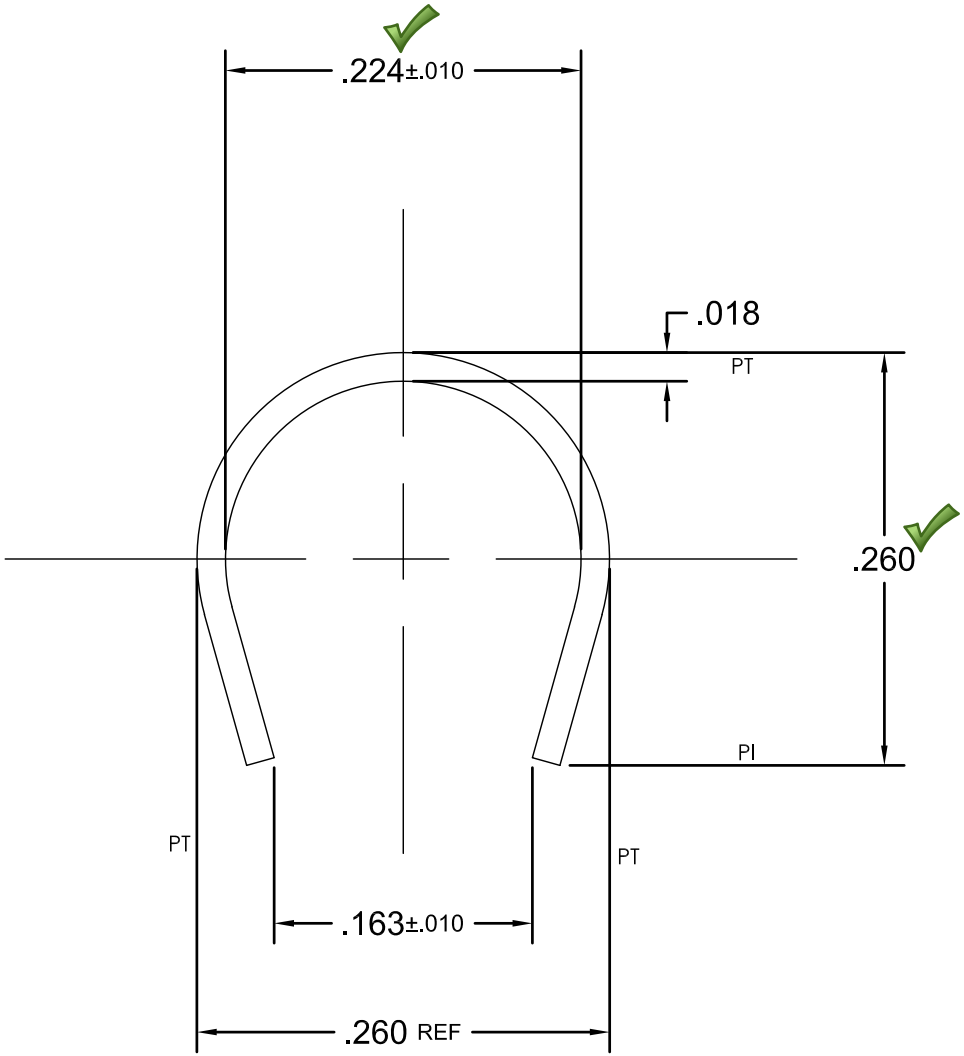
REVISIONS

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: 12/16/2020
DRAWN BY: RA
CHECKED BY: MS
SCALE: AS SHOWN
JOB #: PTC969146



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Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCE IS:
Frac ± 1/16
.XX ±
.XXX ±
ANGLES ±
RADIAL

IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION

IDENTIFIES EXPOSED AREA

REV	DESCRIPTION	DATE	APP'D

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2503 E. Vernon Avenue, Los Angeles, C.A 90058-1897
PH (800)-421-6144 FX: 800-587-7501
www. crlaurence.com

DRAWN BY:	APPROVED BY:	SCALE:	DATE:	PART NO:
Brian R.		8 x size	2/23/16	CS223

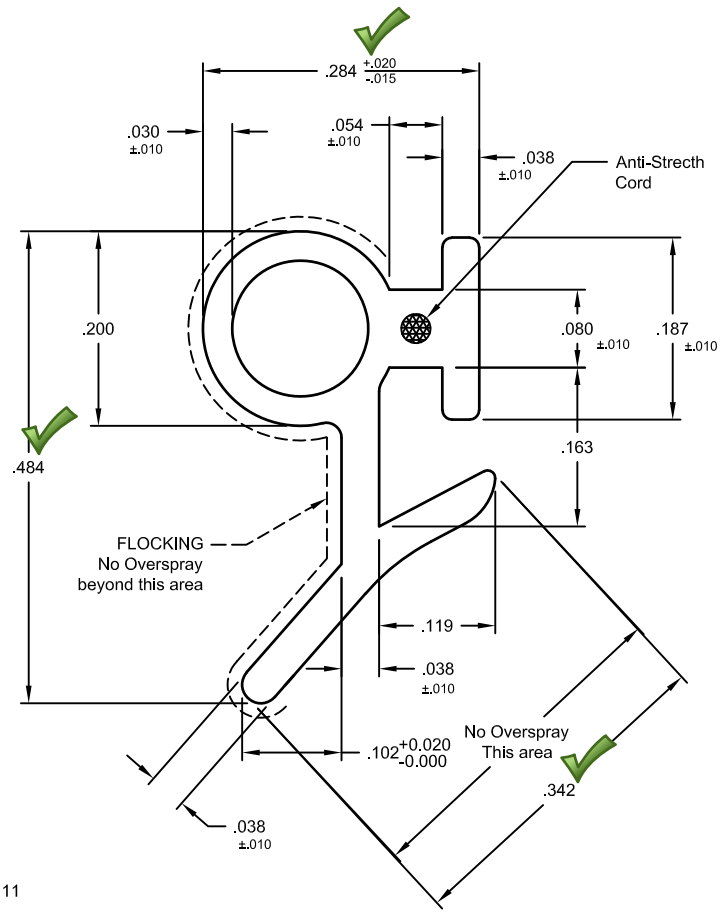
PART DESCRIPTION: SS TRACK CAP

BRAND: U.S. ALUMINUM 2000 SLIDING DOOR | DWG #: CS223

NOTES: .018 SS NORTHSTAR NS-787 OR EQUAL
FITS WITH CS224

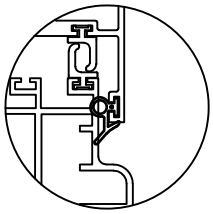
Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

DO NOT COPY



FULL SCALE

SETUP DIFFICULTY
2



No.	Date	Description	By
1	10/7/19	Increase base thickness (was .028)	EJT
A	8/1/19	Add overspray notes	EJT

TREMCO SEALANT / WEATHERPROOFING DIVISION
1451 Jacobson Ave
Ashland, Ohio 44805 U.S.A.
Phone: 800-321-6357
Fax: 419-289-6645

Customer: CR Laurence	Customer Part No. MDAC350208
Project:	Rev No.

Drawn by: E. TANGO	Scale: 10X	Date: 5/9/2019
Compound: PEROX. EPDM	Designed F.C. .108	Drawing No. TR-25626P
Durometer: 70 ±5	Area: .0422	

Print date: 10/20/2020 11:54:11 AM

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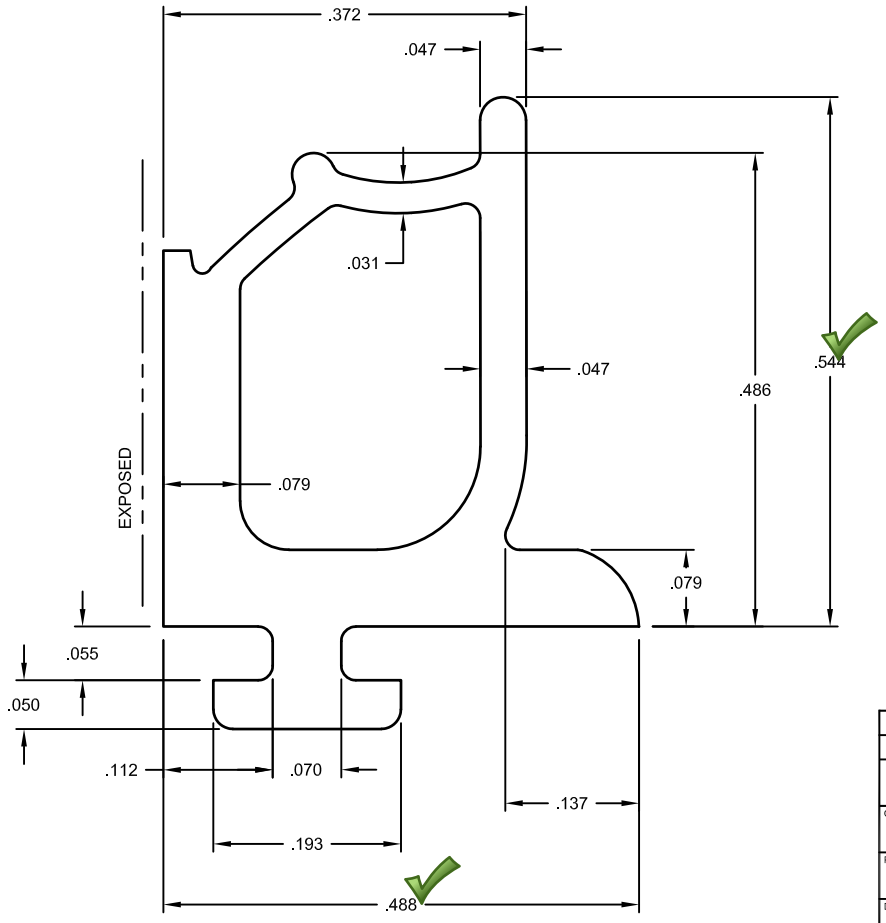
Date:	01/19/21
Verified by:	Marco Santa Rosa



FULL SCALE

No.	Date	Description	By
A	11/14/19	CONVERT TO UNCOMPRESSED PROFILE	EJT

TREMCO SEALANT / WEATHERPROOFING DIVISION
1451 Jacobson Ave
Ashland, Ohio 44805 U.S.A.
Phone: 800-321-6357
Fax: 419-289-6645

Customer: CR Laurence	Customer Part No. S85GDRH
Project: Bi-Folding Door	Rev No.
Drawn by: E Tango	Scale: 10X / Date: 10/15/2019
Compound: Perox. EPDM	Designed F.C. XXX / Drawing No. TX-26001P
Durometer: 60 ±5	Area: .1079

Print date: 10/20/2020 11:55:40 AM

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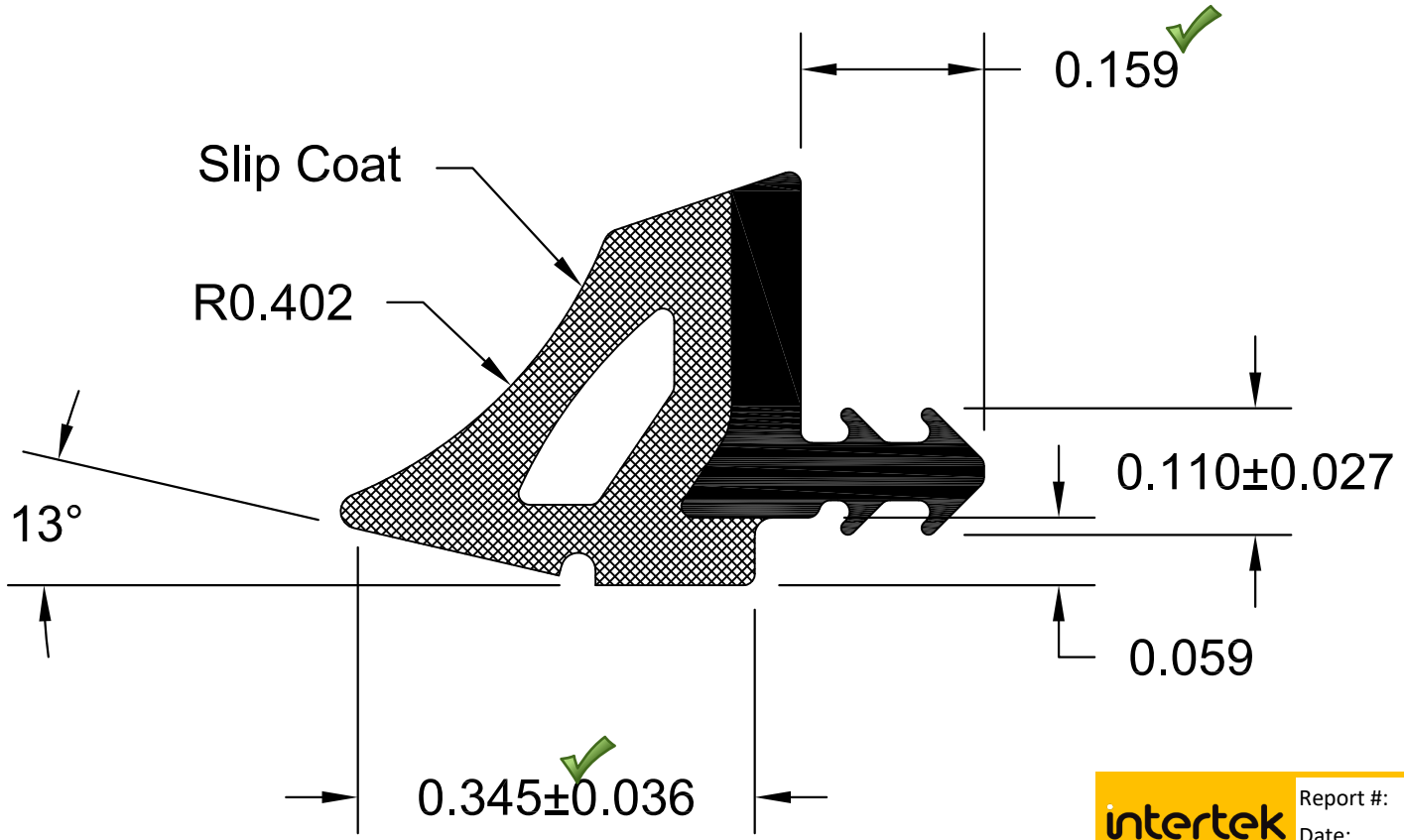

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Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

Make-Up:

Base Material: 70 Durometer Dense EPDM Rubber (1.200 G/CM^3)

Material:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE IS:

Frac ±	N/A
.XX ±	.015
.XXX ±	.006
ANGLES ±	.5°
RADIAL	6%

REV.	DESCRIPTION	DATE	BY

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C.R. Laurence Co.,Inc
2100 E. 38TH STREET
VERNON, CA 90058
PHONE: (323) 588-1281
FAX: (323) 232-2523

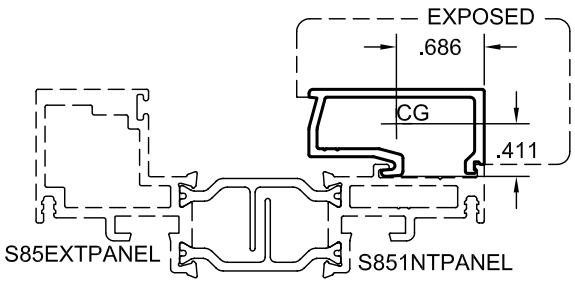
DRAWN BY:	SCALE:	DATE:	PART NUMBER
MS	4:1	4/16/20	S85GDRS

PART: Gasket; Door Rail Stile

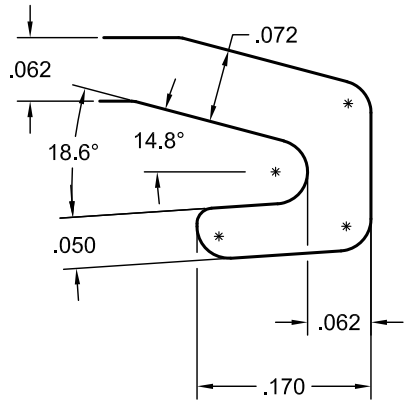
PRODUCT: Monterey S85

NOTE: MATERIAL: See Note Above

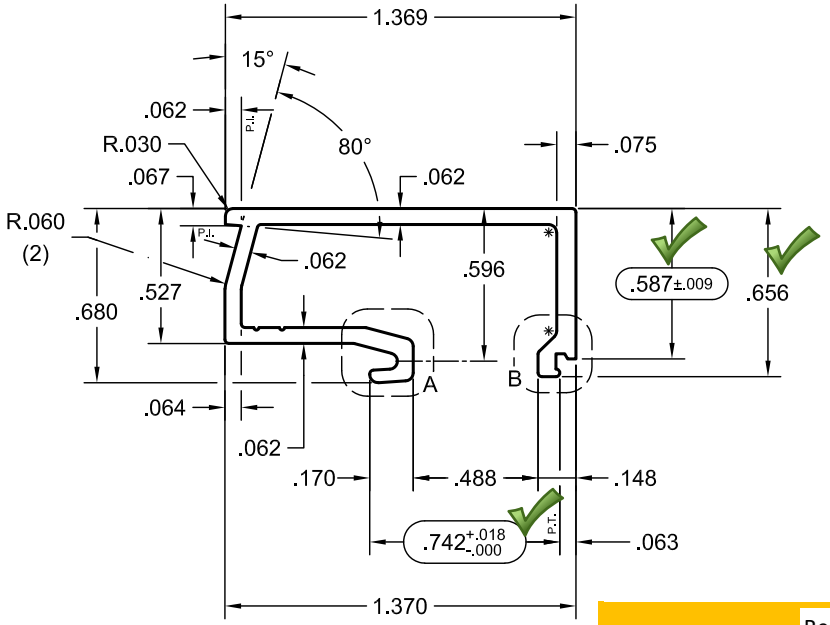
DRAWING NUMBER: 1

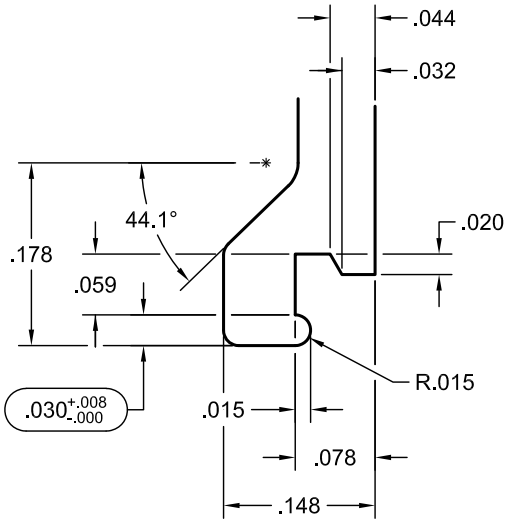


ASSEMBLY DETAIL
FULL SIZE



DETAIL A
8 X SIZE





DETAIL B
8 X SIZE

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Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

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PH (800)-421-6144 FX: 800-587-7501
www.crlaurence.com
A CRH COMPANY

DRAWN BY:	APPROVED BY:	SCALE:	DATE:	EXTRUSION BASE PART NO:
VM	MS	2 X SIZE	1/28/2020	S85GLHV

PART DESCRIPTION: S85 GLAZING STOP FOR 1"
BRAND: S85 MONTEREY
NOTES: ASSEMBLES WITH S851NTPANEL
DWG #: S85GLHV

REV	DESCRIPTION	DATE	APP'D

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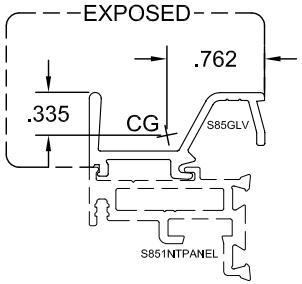
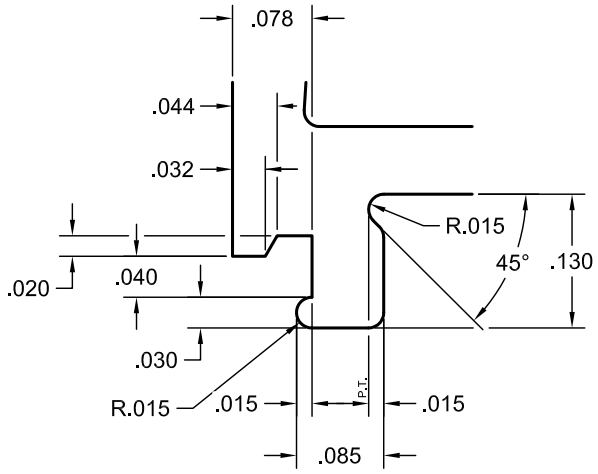
UNLESS OTHERWISE SPECIFIED:
ANSI H35.2-2007 TOLERANCES FOR ALUMINUM EXTRUSIONS APPLY
UNSPECIFIED CORNER RAD: .015 IN.
UNSPECIFIED WALL THICKNESS: N/A IN.
IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION
IDENTIFIES EXPOSED AREA

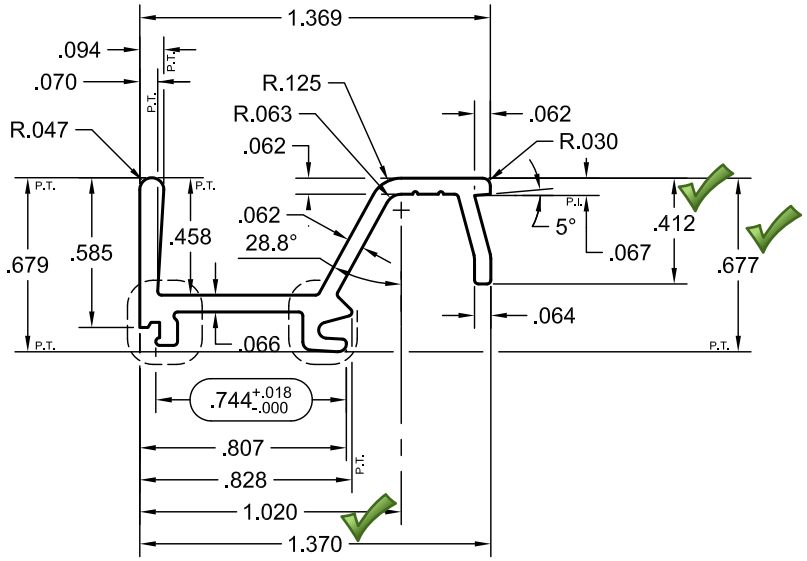
ALLOY & TEMPER: 6063-T6	SQ. IN.:		
ESTIMATED AREA: .218	SQ. IN.:		
ESTIMATED WEIGHT / FT: .261	LB		
ESTIMATED PERIMETER: 6.818	IN.		
EXP/PAINTED PER: 1.966 IN.	OUT. PER: 6.818	IN.	
CLASS: SOLID	CIRCLE SIZE: 1.605	IN.	
SECTION PROPERTIES:			
Ix: .011	IN.4 Sx: .028	IN.3	
Iy: .050	IN.4 Sy: .072	IN.3	

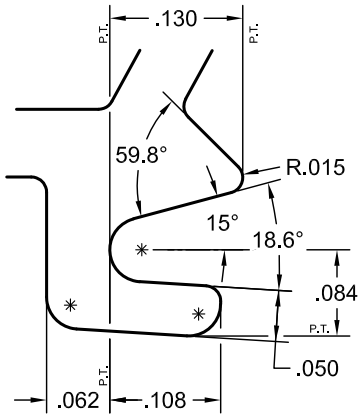


ASSEMBLY
FULL SIZE



DETAIL A
8 X SIZE





DETAIL B
8 X SIZE

- ● R.010
- △ R.012
- ⊕ R.015
- × R.020
- ~ R.025
- ✳ R.031
- ◇ R.040
- ○ R.062
- □ R.094

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Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

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PH (800)-421-6144 FX: 800-587-7501
www.crlaurence.com
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DRAWN BY:	APPROVED BY:	SCALE:	DATE:	EXTRUSION BASE PART NO:
VM		2 X SIZE	1/8/2020	S85GLV

PART DESCRIPTION: S85 GLASS STOP FOR 1" GLAZING /PULL HANDLE
BRAND: MONTEREY S85 | DWG #: S85GLV
NOTES: ASSEMBLES WITH S851NTPANEL

REV	DESCRIPTION	DATE	APP'D

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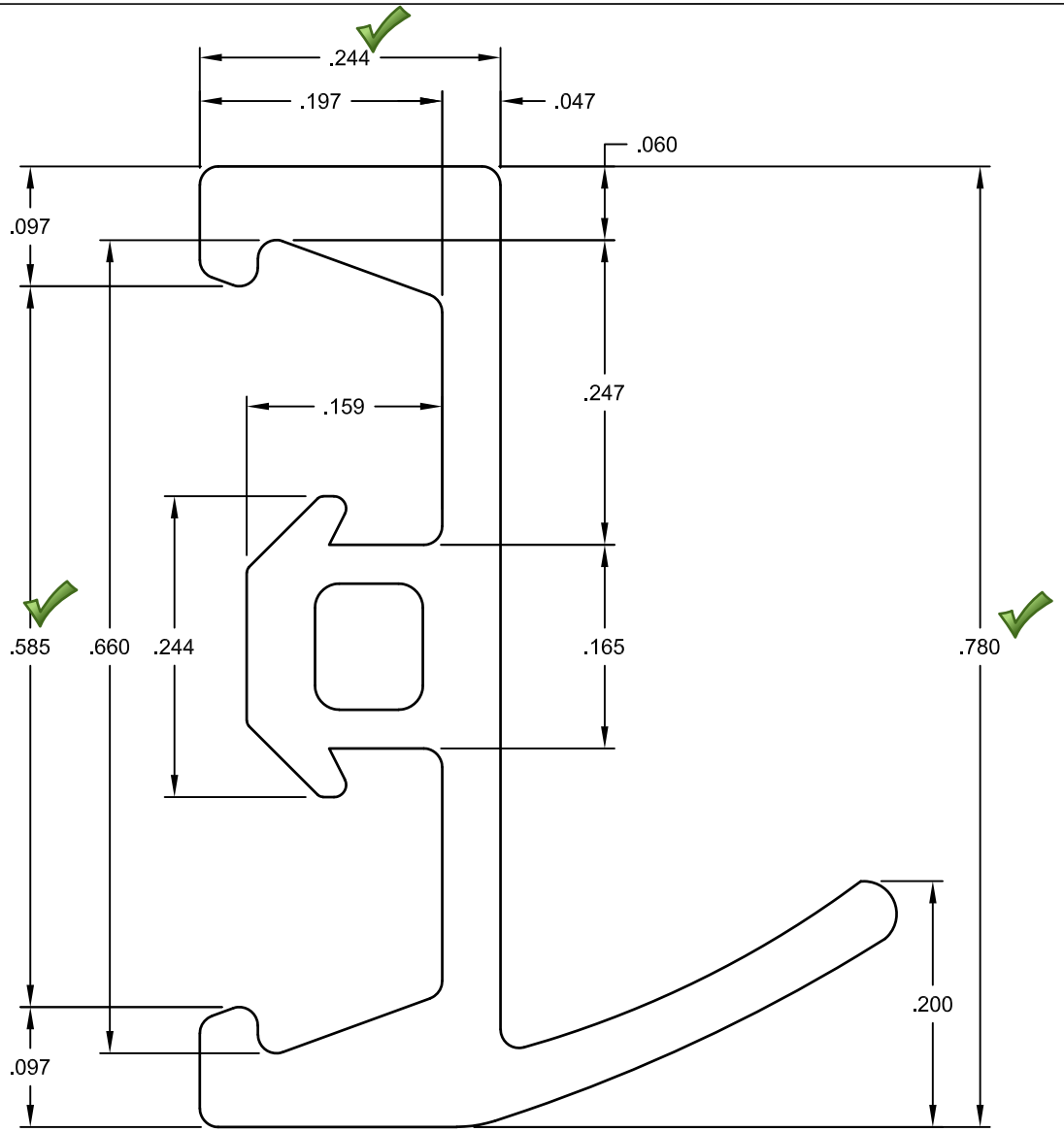
UNSPECIFIED CORNER RAD: .015 IN.
UNSPECIFIED WALL THICKNESS: N/A IN.
IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION
------ IDENTIFIES EXPOSED AREA

ALLOY & TEMPER: 6063-T6	SQ. IN:		
ESTIMATED AREA: .198			LB
ESTIMATED WEIGHT / FT: .237			IN.
ESTIMATED PERIMETER: 5.831			IN.
EXP/PAINTED PER: 2.660 IN.	OUT_PER: 5.831		IN.
CLASS: SOLID	CIRCLE SIZE: 1.603		IN.
SECTION PROPERTIES:			
Ix: .008 IN.4	Sx: .023		IN.3
Iy: .042 IN.4	Sy: .055		IN.3



FULL SCALE

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Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

NO EXPOSED SURFACES

No.	Date	Description	By
-	-	-	-

TREMCO
SEALANT / WEATHERPROOFING DIVISION
1451 Jacobson Ave
Ashland, Ohio 44805 U.S.A.
Phone : 800-321-6357
Fax : 419-289-6645

Customer: CR Laurence	Customer Part No. S85GRP
Project: Bi-Folding Door	Rev No.
Drawn by: E Tango	Scale: 10X
Date: 10/15/2019	
Compound: PEROX. EPDM	Designed F.C. -
Drawing No. TX-26002P	
Durometer: 70 ±5	Area: .1062

Print date: 10/20/2020 11:57:19 AM

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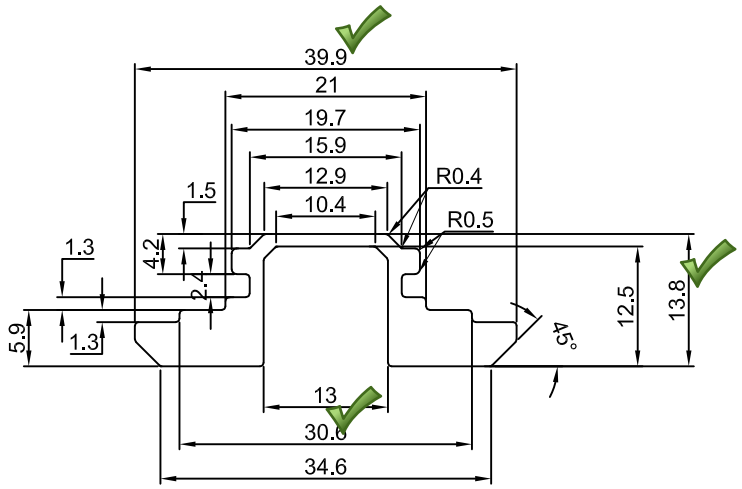
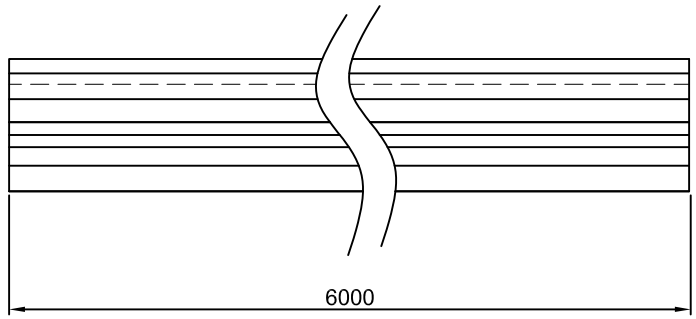
冶具、模具、工具名	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
成型方式	PG

版次 Lần thay đổi	日期 Ngày tháng

Thermal Break #1





intertek Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

注: 1、未注公差以"線性尺寸的极限偏差數值表" 為准
2、未注圆角R0.2
3、去除油污。

注意：表面黑色(抗 UV)

線性尺寸的极限偏差數值表(mm) GB/T1804-2000-M级						
0.5>3	3>6	6>30	30>120	120>400	>400~1000	1000>2000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2

生产流程

PG >ZZ

客戶 Khách hàng	CRL	繪圖 Thiết kế	賴春長 Lại.Xuân.Trường	日期 Ngày tháng	20.02.06		
品名 Tên sản phẩm	S85GU1DEBOTTOM-236	審核 Thẩm tra		日期 Ngày tháng			
圖號 Mã bản vẽ	AA07200042	核准 Phê duyệt		日期 Ngày tháng			
圖別 Loại bản vẽ	零件图 B.Vẽ linh kiện	材質 Vật liệu	PA66	比例 Tỉ lệ	1:1		
角法 Phép chiếu		重量 Trọng lượng	1300g	單位 Đơn vị	MM	修改者 Thay đổi	修改内容 Nội dung thay đổi

VTAC 越南德鑫五金精密铸造有限公司 VIETNAM TACTICIAN INDUSTRIAL CO.LTD

冶具、模具、工具名	
1	
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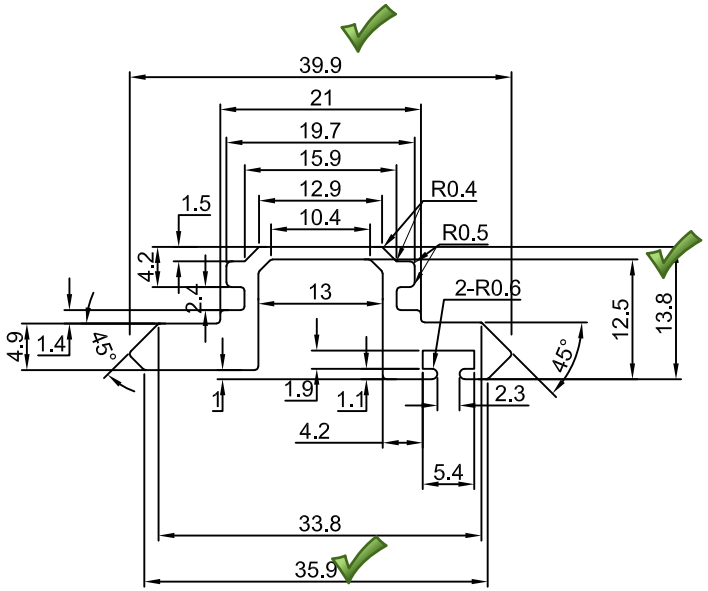
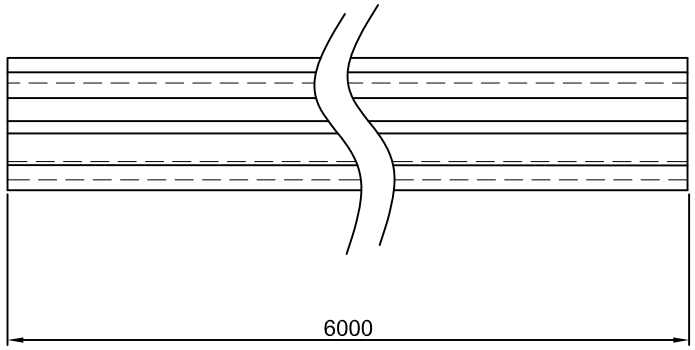
10	
11	
成型方式	PG

版次 Lần thay đổi	日期 Ngày tháng



Thermal Break #2



intertek Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

注: 1、未注公差以"線性尺寸的极限偏差數值表" 為准
2、未注圆角R0.2
3、去除油污。

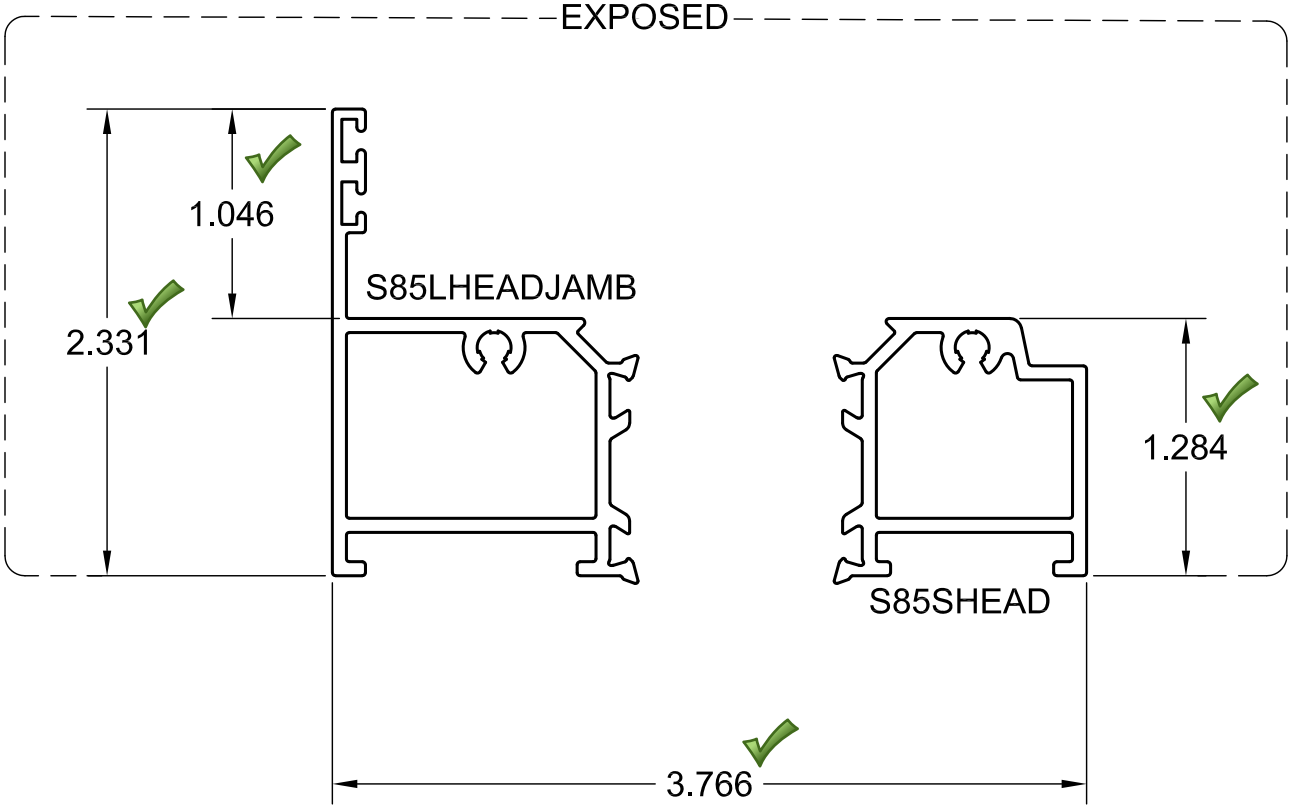
注意：表面黑色(抗 UV)

線性尺寸的极限偏差數值表(mm) GB/T1804–2000–M级						
0.5>3	3>6	6>30	30>120	120>400	>400~1000	1000>2000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2

生产流程
PG >ZZ

客戶 Khách hàng	CRL	繪圖 Thiết kế	賴春長 Lại.Xuân.Trường	日期 Ngày tháng	20.02.06		
品名 Tên sản phẩm	S85GU1DETOP-236	審核 Thẩm tra		日期 Ngày tháng			
圖號 Mã bản vẽ	AA07200041	核准 Phê duyệt		日期 Ngày tháng			
圖別 Loại bản vẽ	零件图 B.Vẽ linh kiện	材質 Vật liệu	PA66	比例 Tỉ lệ	1:1		
角法 Phép chiếu		重量 Trọng lượng	1150g	單位 Đơn vị	MM	修改者 Thay đổi	修改內容 Nội dung thay đổi

VTAC 越南德鑫五金精密铸造有限公司 VIETNAM TACTICIAN INDUSTRIAL CO.LTD



intertek
Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

ALLOY & TEMPER:	6063-T6
ESTIMATED AREA:	1.211 SQ. IN.
ESTIMATED WEIGHT / FT:	1.267 LB
ESTIMATED PERIMETER:	34.179 IN.
EXP/PAINTED PER:	9.787 IN.
OUT_ PER:	14.998 IN.
CLASS:	SOLID
CIRCLE SIZE:	IN.
SECTION PROPERTIES:	
I_{xx}	IN.^{4}
S_{xx}	IN.^{3}
I_{yy}	IN.^{4}
S_{yy}	IN.^{3}

UNLESS OTHERWISE SPECIFIED:
ANSI H35.2-2009 TOLERANCES FOR ALUMINUM EXTRUSIONS APPLY
UNSPECIFIED CORNER RAD: .015 IN.
UNSPECIFIED WALL THICKNESS: N/A IN.

IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION
------- IDENTIFIES EXPOSED AREA

REV	DESCRIPTION	DATE	APP'D

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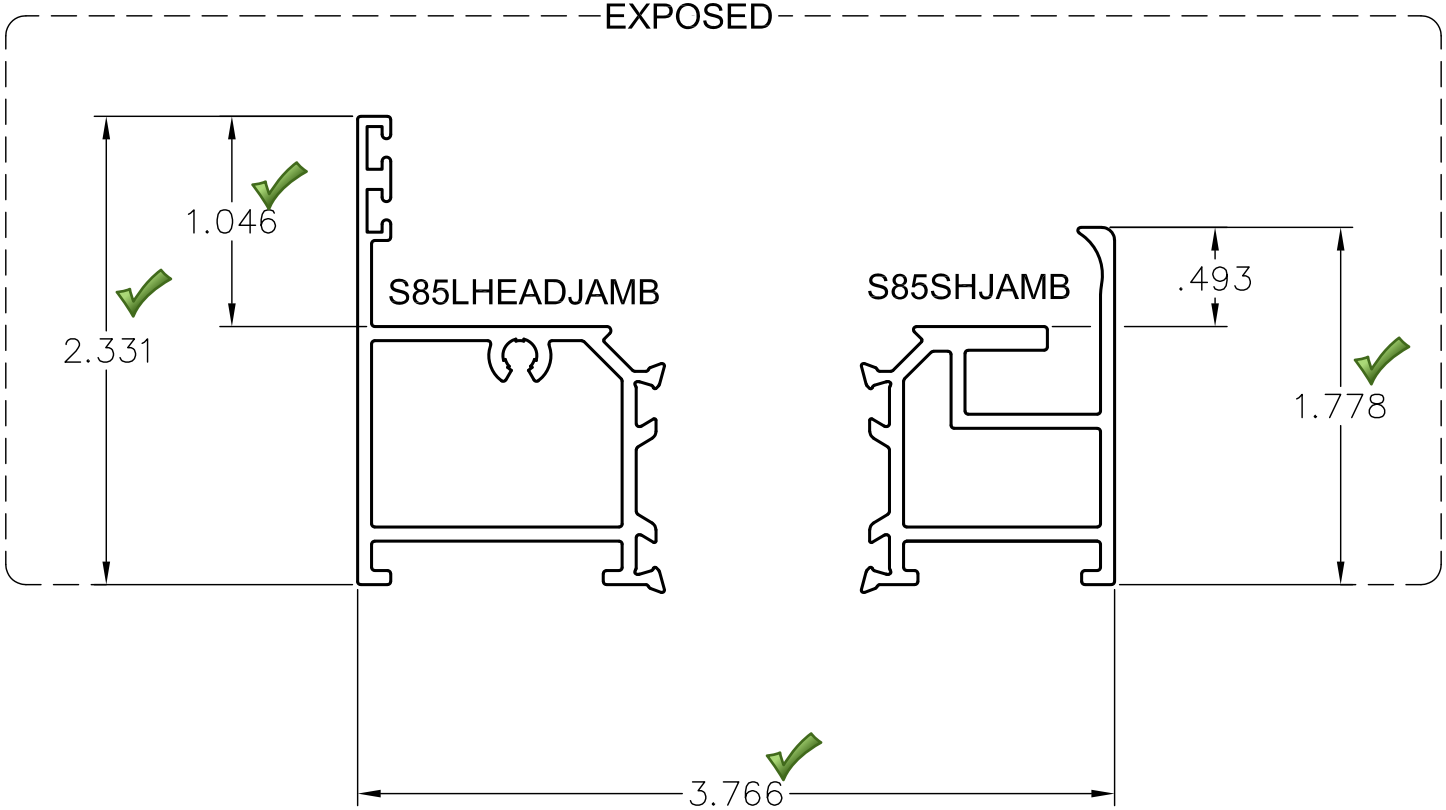
PH (800)-421-6144 FX: 800-587-7501
www. crlaurence.com
A CRH COMPANY

DRAWN BY:	APPROVED BY:	SCALE:	DATE:	EXTRUSION BASE PART NO:
VM	MS	FULL SIZE	6-18-2020	S85HEAD

PART DESCRIPTION: S85 TOP TRACK
BRAND: MONTEREY S85
DWG #: S85HEAD
NOTES: ASSEMBLES WITH S85LHEADJAMB S85SHEAD ENSINGER 2834 ENSINGER 3889



intertek
Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

ALLOY & TEMPER:	6063-T6
ESTIMATED AREA:	1.304 SQ. IN.
ESTIMATED WEIGHT / FT:	1.379 LB
ESTIMATED PERIMETER:	36.384 IN.
EXP/PAINTED PER:	12.627 IN.
OUT_ PER:	17.838 IN.
CLASS:	SOLID
CIRCLE SIZE:	IN.
SECTION PROPERTIES:	
I_{xx}	IN.^{4}
S_{xx}	IN.^{3}
I_{yy}	IN.^{4}
S_{yy}	IN.^{3}

UNLESS OTHERWISE SPECIFIED:
ANSI H35.2-2009 TOLERANCES FOR ALUMINUM EXTRUSIONS APPLY
UNSPECIFIED CORNER RAD: .015 IN.
UNSPECIFIED WALL THICKNESS: N/A IN.

IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION

------- IDENTIFIES EXPOSED AREA

REV	DESCRIPTION	DATE	APP'D

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DRAWN BY:	APPROVED BY:	SCALE:	DATE:	EXTRUSION BASE PART NO:
VM	MS	FULL SIZE	6-18-2020	S85HJAMB

PART DESCRIPTION: LATERAL FRAME HINGED JAMB
BRAND: MONTEREY S85 DWG #: S85HJAMB
NOTES: ASSEMBLES WITH S85LHEADJAMB S85SHJAMB
ENSINGER 2834 ENSINGER 3889

冶具、模具、工具名	
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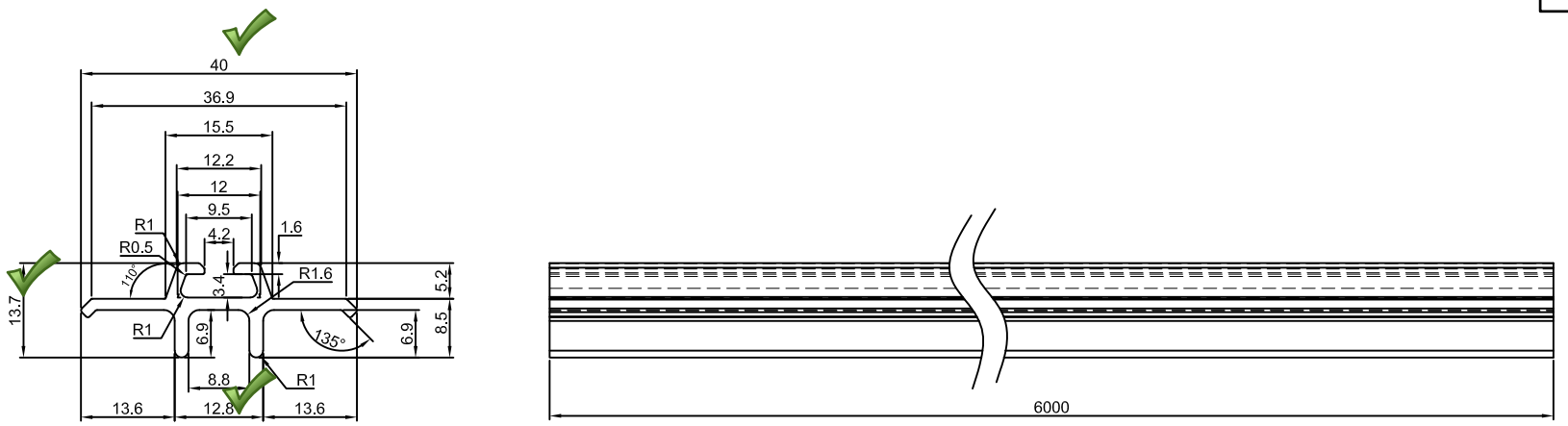
10	
11	
成型方式	PG

版次 Lần thay đổi	日期 Ngày tháng



Thermal Break #3

intertek Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

注: 1、未注公差以"線性尺寸的极限偏差數值表" 為准
2、未注圆角R0.2
3、去除油污。

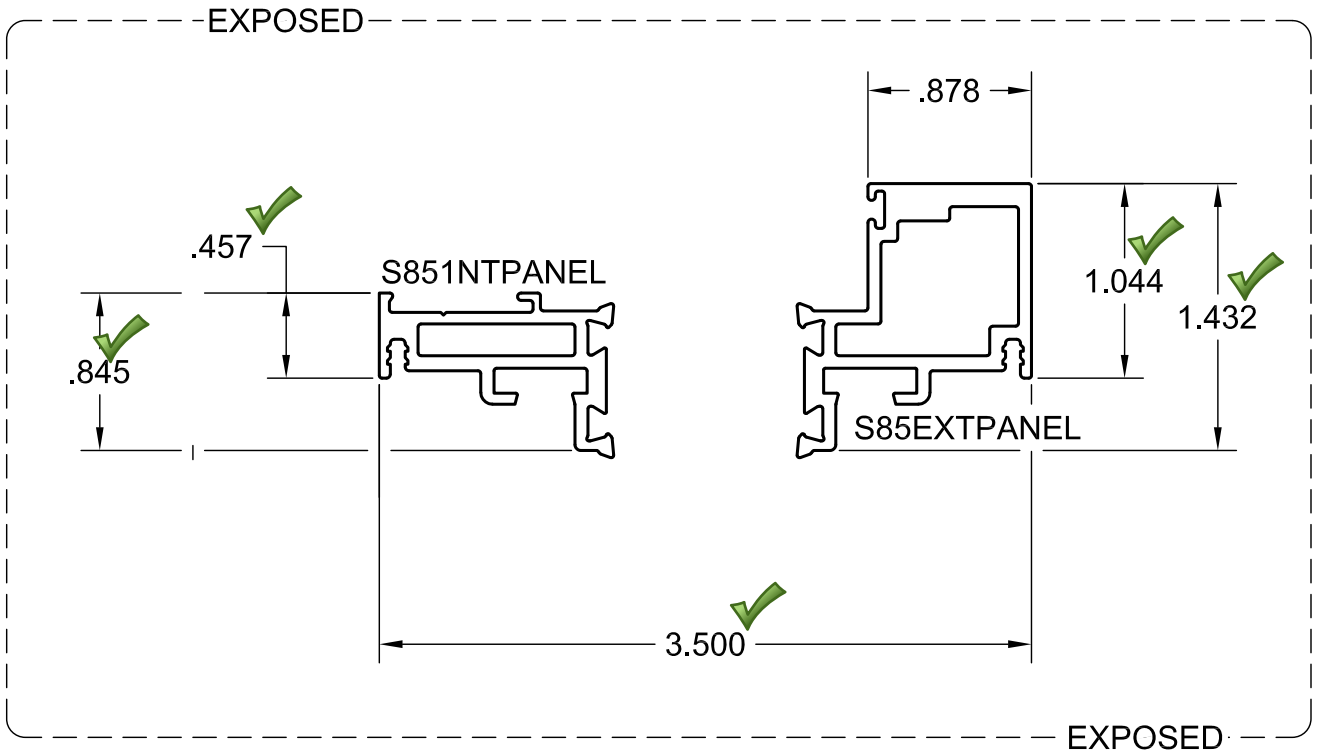
注意：表面黑色(抗 UV)

線性尺寸的极限偏差數值表(mm) GB/T1804-2000-M级						
0.5>3	3>6	6>30	30>120	120>400	>400~1000	1000>2000
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2

生产流程
PG >ZZ

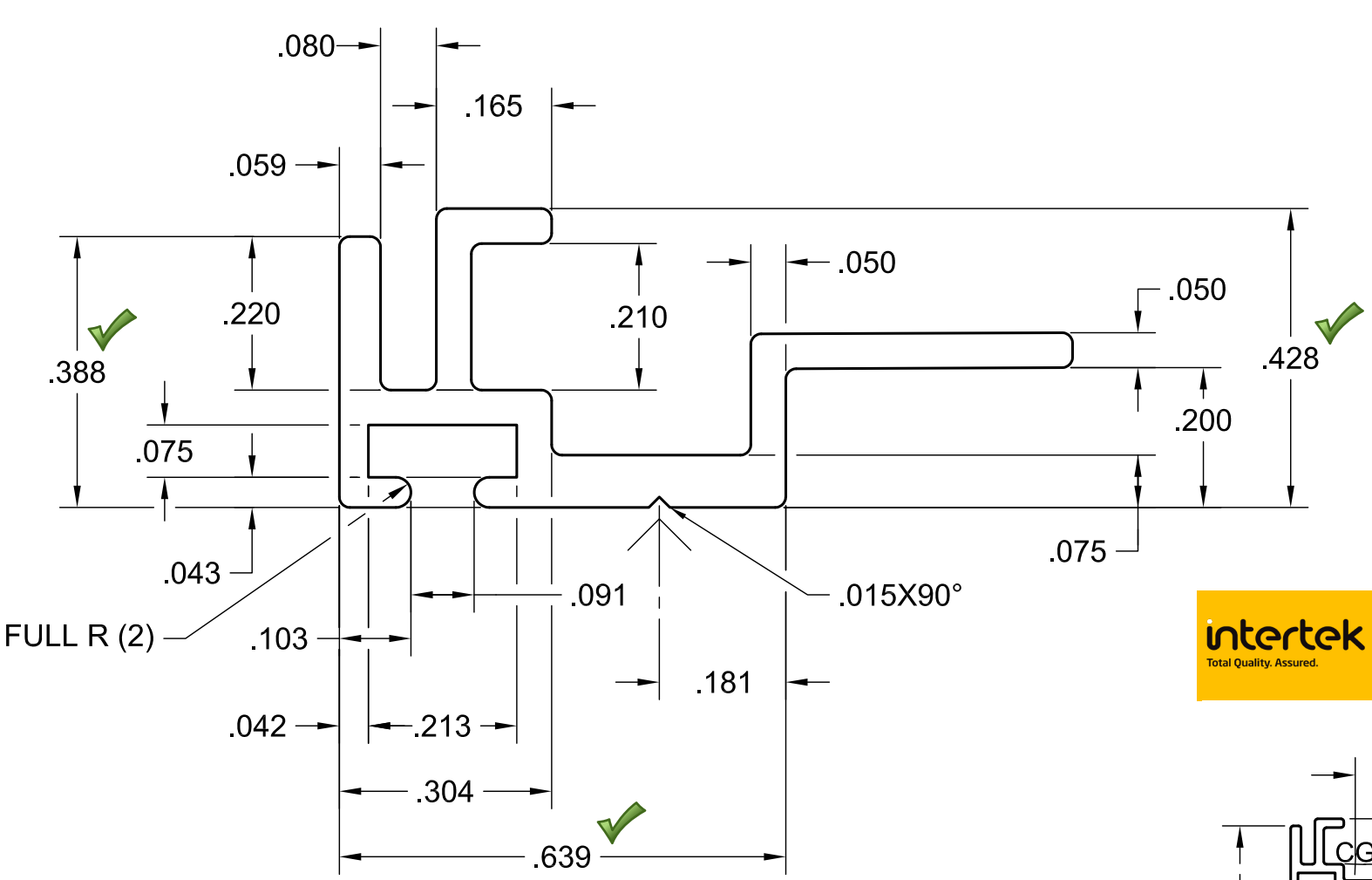
客戶 Khách hàng	CRL	繪圖 Thiết kế	賴春長 Lại.Xuân.Trường	日期 Ngày tháng	19.11.22		
品名 Tên sản phẩm	S85JAMBSNAP-1	審核 Thẩm tra		日期 Ngày tháng			
圖號 Mã bản vẽ	AA07200040	核准 Phê duyệt		日期 Ngày tháng			
圖別 Loại bản vẽ	零件图 B.Vẽ linh kiện	材質 Vật liệu	PA66	比例 Tỉ lệ	1:1		
角法 Phép chiếu		重量 Trọng lượng	684g	單位 Đơn vị	MM	修改者 Thay đổi	修改內容 Nội dung thay đổi

VTAC 越南德鑫五金精密铸造有限公司
VIETNAM TACTICIAN INDUSTRIAL CO.LTD



intertek
Total Quality. Assured.

Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa



- R.010
- R.012
- R.015
- R.020
- R.025
- R.031
- R.040
- R.062
- R.094

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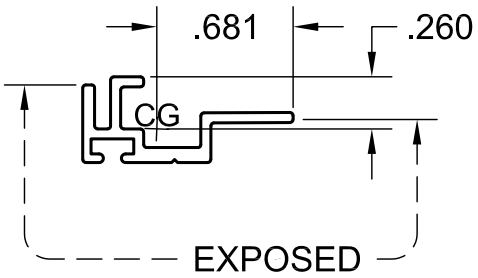
Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa



FULL SIZE

ALLOY & TEMPER:	6063-T6
ESTIMATED AREA:	.117 SQ. IN.
ESTIMATED WEIGHT / FT:	.140 LB
ESTIMATED PERIMETER:	4.313 IN.
EXP/PAINTED PER:	2.067 IN.
OUT_ PER:	4.318 IN.
CLASS:	SOLID
CIRCLE SIZE:	1.208 IN.
SECTION PROPERTIES:	
I_{xx}	.002 IN.^{4}
S_{xx}	.006 IN.^{3}
I_{yy}	.010 IN.^{4}
S_{yy}	.014 IN.^{3}

UNLESS OTHERWISE SPECIFIED:
ANSI H35.2-2009 TOLERANCES FOR ALUMINUM EXTRUSIONS APPLY
UNSPECIFIED CORNER RAD: .015 IN.
UNSPECIFIED WALL THICKNESS: .050 IN.

IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION

------- IDENTIFIES EXPOSED AREA

REV	DESCRIPTION	DATE	APP'D

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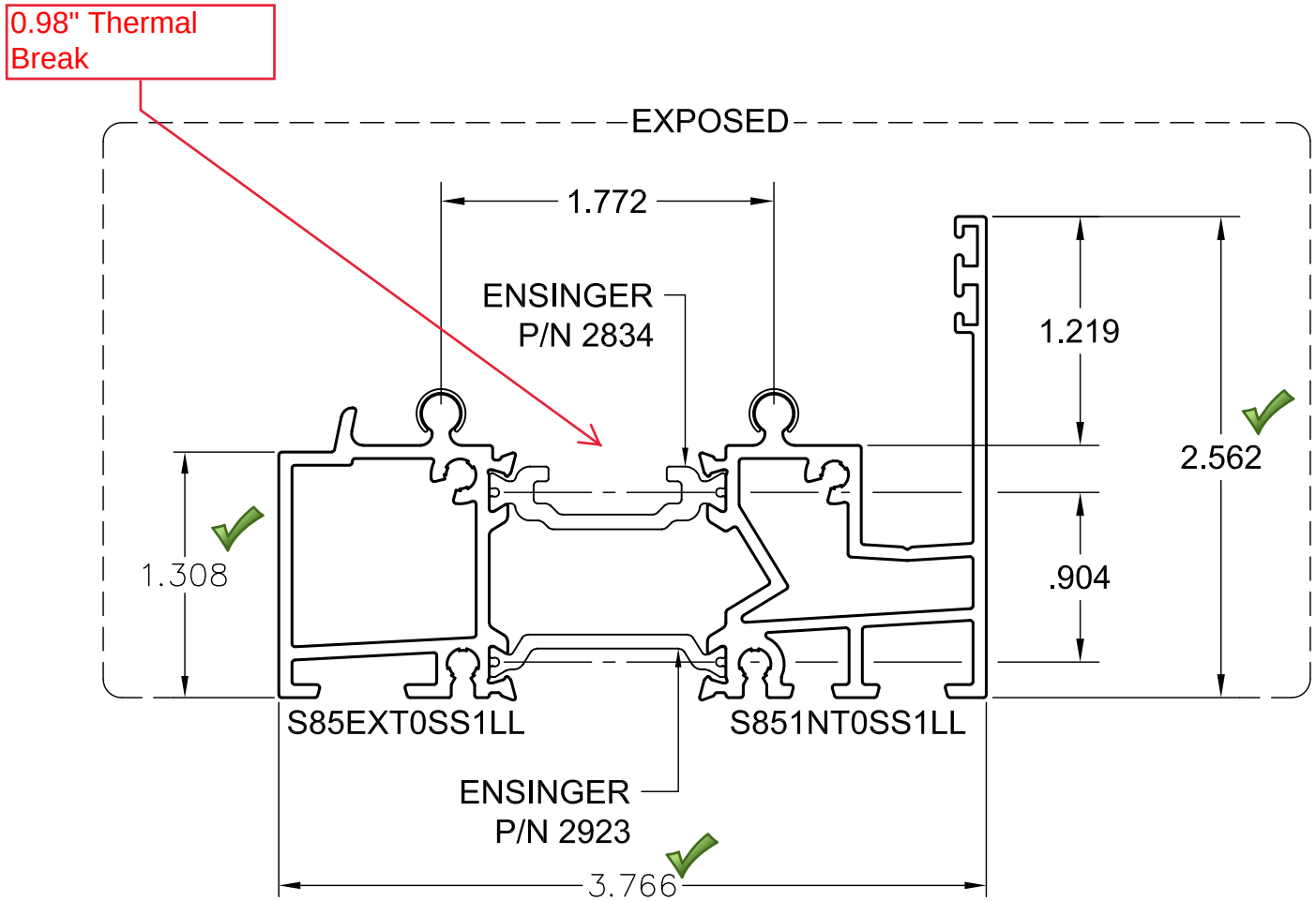
A CRH COMPANY

DRAWN BY:	APPROVED BY:	SCALE:	DATE:	EXTRUSION BASE PART NO:
VM	MS	4 X SIZE	3-4-2020	S85SHGR

PART DESCRIPTION: SASH HORIZONTAL GASKET RETAINER
BRAND: MONTEREY S85
DWG #: S85HRGR
NOTES:



intertek Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

ALLOY & TEMPER:	6063-T6
ESTIMATED AREA:	1.475 SQ. IN.
ESTIMATED WEIGHT / FT:	1.592 LB
ESTIMATED PERIMETER:	39.447 IN.
EXP/PAINTED PER:	12.570 IN.
OUT_ PER:	20.808 IN.
CLASS:	SOLID
CIRCLE SIZE:	IN.
SECTION PROPERTIES:	
I_{xx}	IN.^{4}
S_{xx}	IN.^{3}
I_{yy}	IN.^{4}
S_{yy}	IN.^{3}

UNLESS OTHERWISE SPECIFIED:
ANSI H35.2-2009 TOLERANCES FOR ALUMINUM EXTRUSIONS APPLY
UNSPECIFIED CORNER RAD: .015 IN.
UNSPECIFIED WALL THICKNESS: N/A IN.

IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION

------- IDENTIFIES EXPOSED AREA

REV	DESCRIPTION	DATE	APP'D

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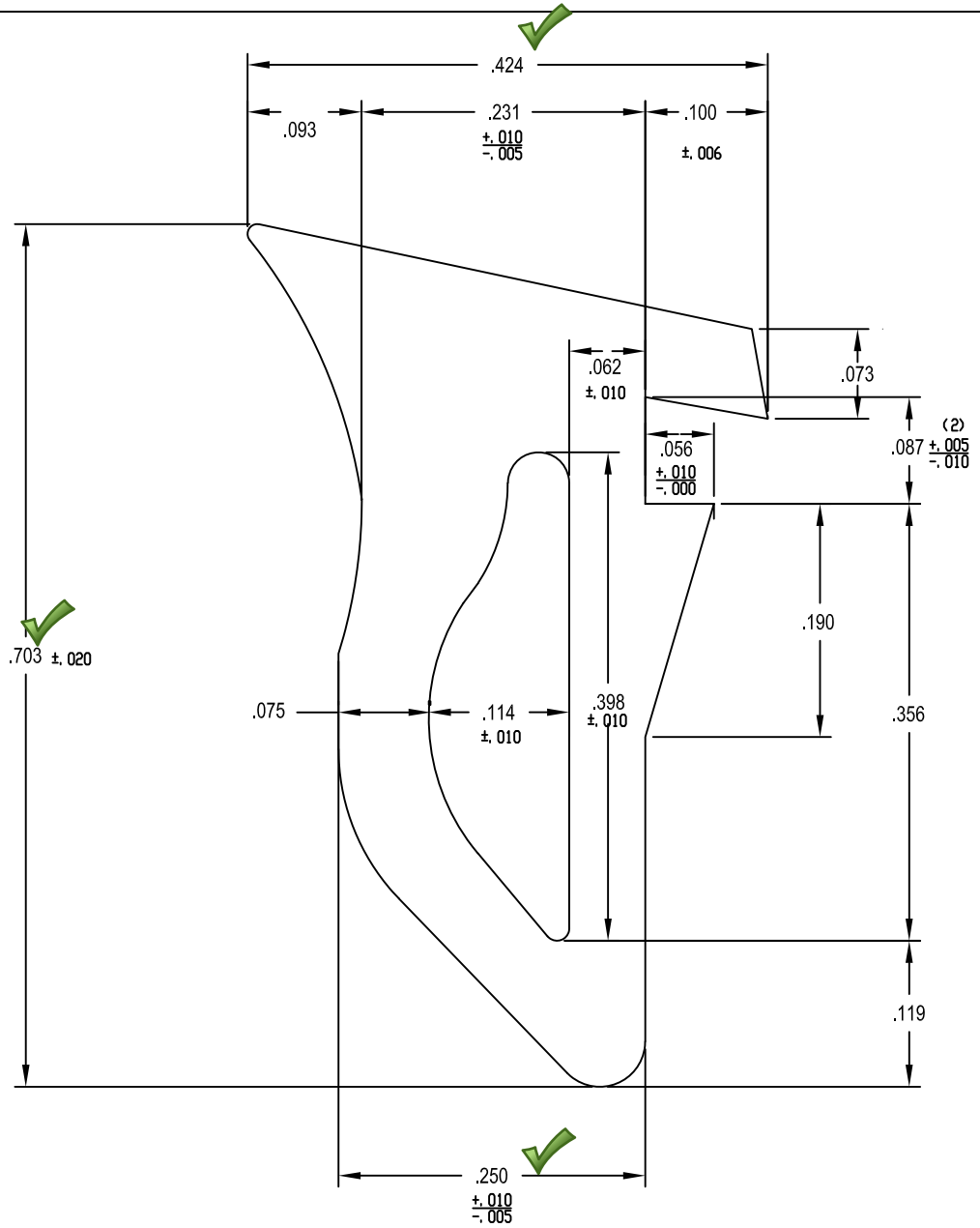
DRAWN BY:	APPROVED BY:	SCALE:	DATE:	EXTRUSION BASE PART NO:
VM	MS	FULL SIZE	6-16-2020	S850SS1LL

PART DESCRIPTION: SURFACE MOUNT OUTSWING SILL BOTTOM TRACK

BRAND: MONTEREY S85 DWG #: S850SS1LL

NOTES: ASSEMBLES WITH S85EXT0S1LL S851NT0S1LL
ENSINGER 2834 ENSINGER 2923



FULL SCALE

intertek
Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

NO.	DATE	DESCRIPTION	BY

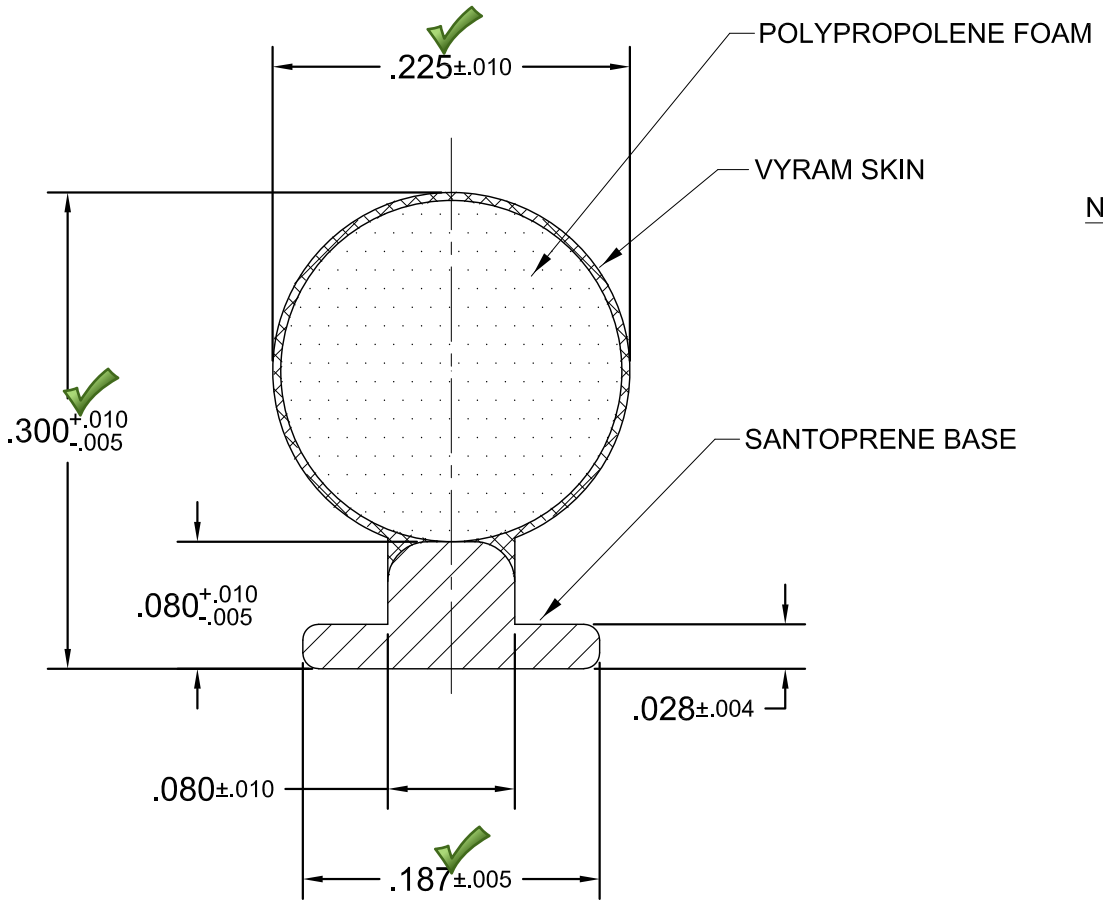
TREMCO
1451 JACOBSON AVE.
ASHLAND, OH 44805 U. S. A.

TREMCO STD.

DRAWN BY LR	SCALE 10X	DATE 5-15-95
COMPOUND SILICONE	DESIGNED F.C. .250	DRAWING NO. PS-1127S
DUROMETER 70±5	AREA .128	

THE DESIGN OF THE GASKET SHOWN HEREIN IS THE PRODUCT OF TREMCO, INC. NO REPRODUCTION OR USE OF THIS DESIGN IS AUTHORIZED WITHOUT THE CONSENT OF TREMCO.

ACTUAL SIZE



NOTE:

1. FACE CLEARANCE = .125
2. MATERIALS: POLYPROPOLENE
   SANTOPRENE ™
   VYRAM ™
3. AMESBURY 32007 or EQUAL

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Total Quality. Assured.

Report #: L4173.01-301-46
Date: 01/19/21
Verified by: Marco Santa Rosa

MATERIAL & COLOR:	AS NOTED
ESTIMATED AREA:	SQ. IN.
ESTIMATED OUTSIDE PERIMETER:	IN.
ESTIMATED INSIDE PERIMETER:	IN.
FINISH:	N/A

UNLESS OTHERWISE SPECIFIED:
RMA MO-1 (2005) TOLERANCES FOR
RUBBER EXTRUSIONS APPLY

IDENTIFIES CRITICAL CHARACTERISTICS FOR CRL INSPECTION

IDENTIFIES EXPOSED AREA

REV	DESCRIPTION	DATE	APP'D

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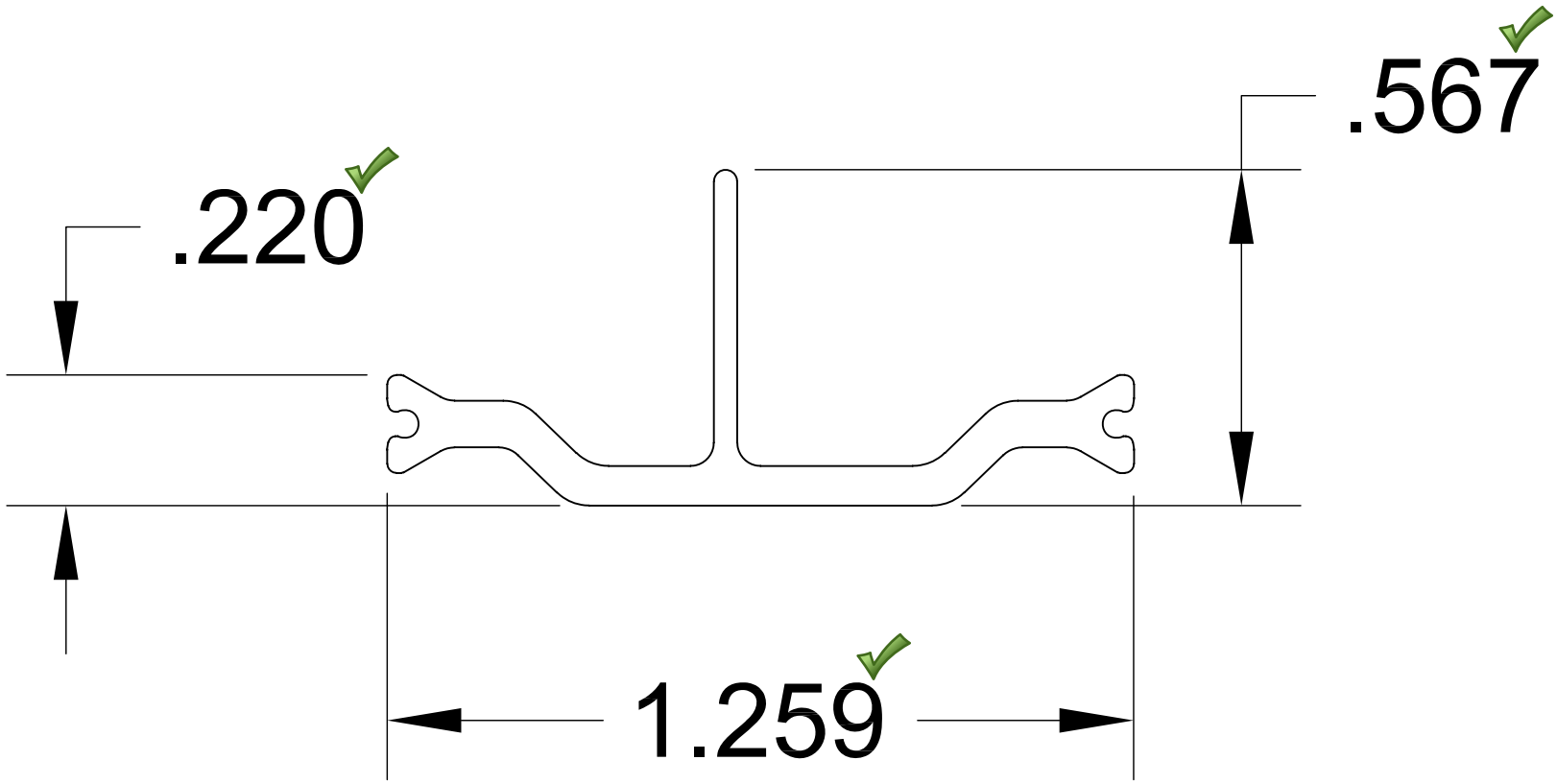
www. crlaurence.com

DRAWN BY:	APPROVED BY:	SCALE:	DATE:	PART NO:
RJ		8:1	5/29/18	WH34200300

PART DESCRIPTION: BULB GASKET FOR 7200-7400 WINDOWS
BRAND: US ALUMINUM
DWG #: WH34200300
NOTES: BASE PART WH342



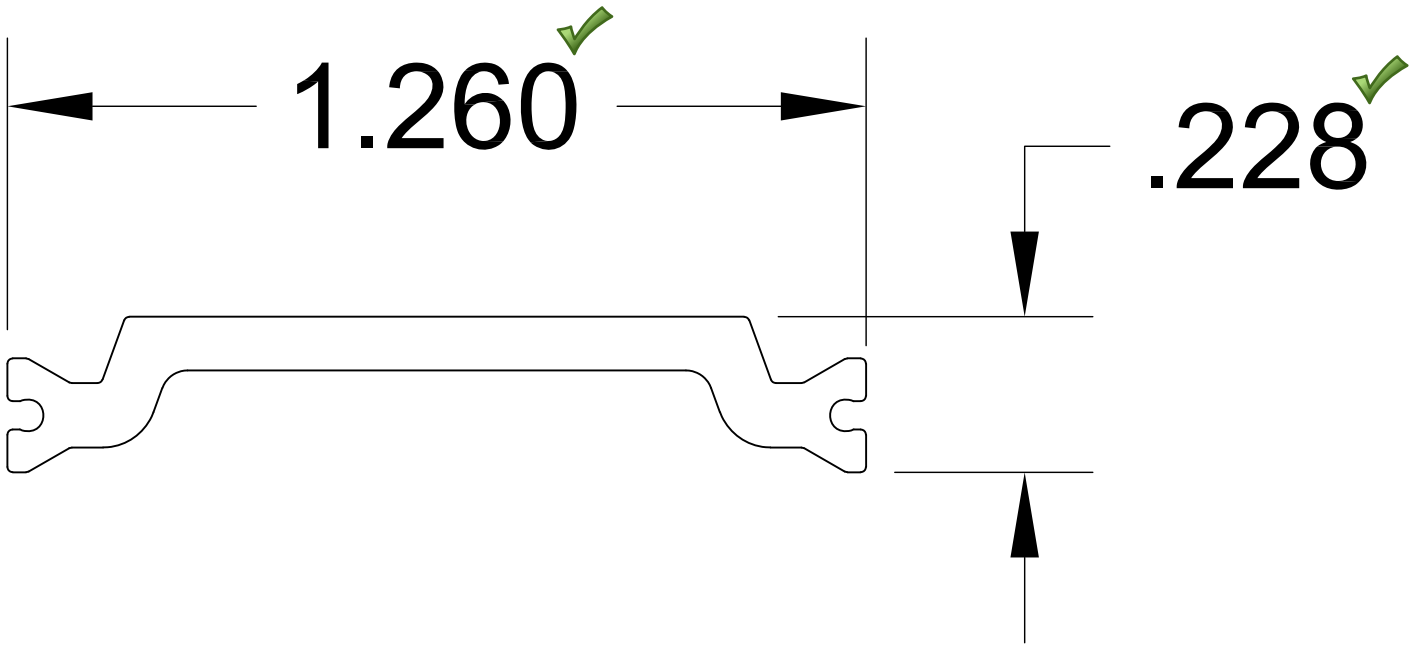
ENSINGER
P/N 3889

intertek
Total Quality. Assured.

Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa

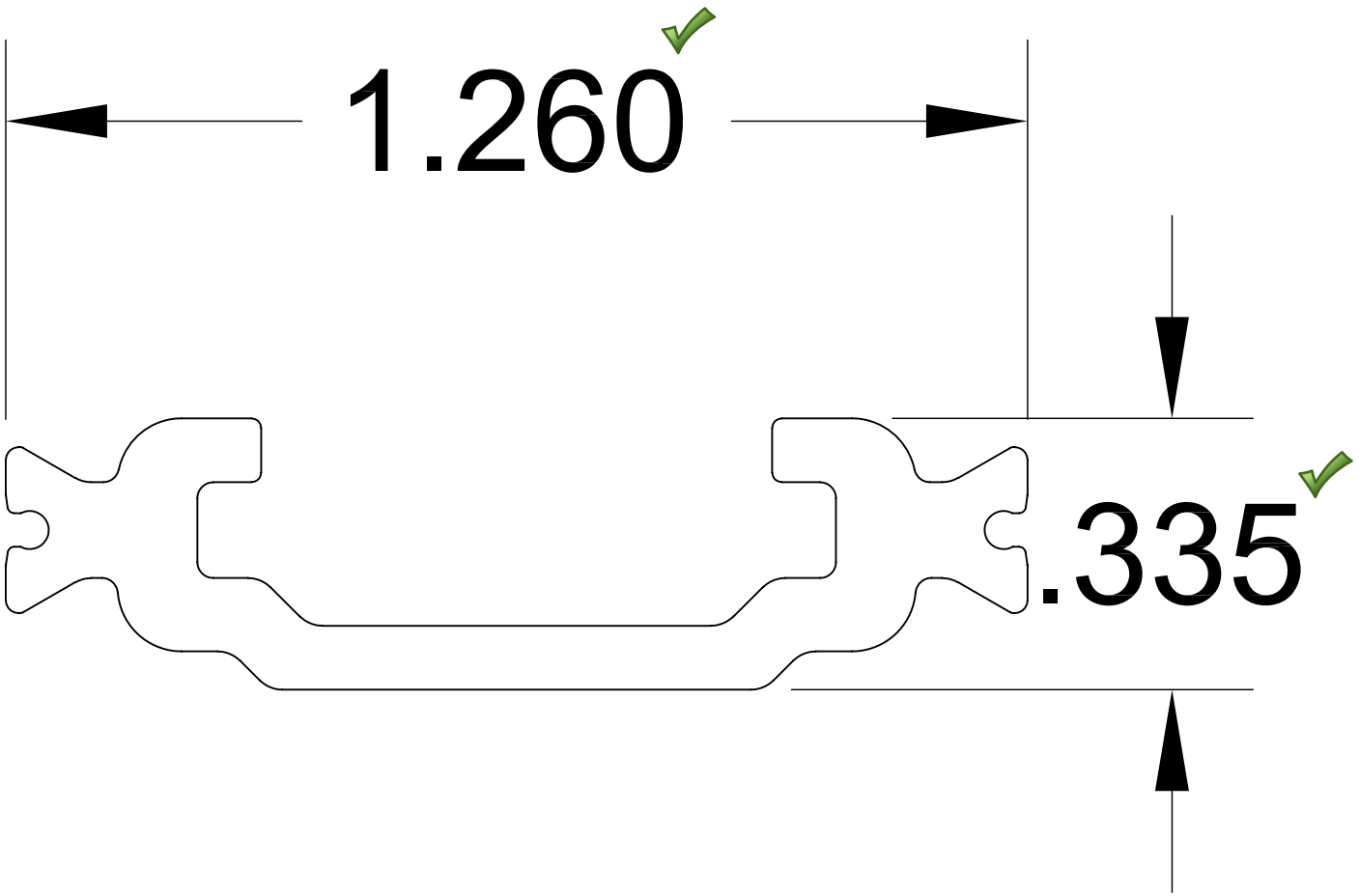
intertek Total Quality. Assured.	Report #:	L4173.01-301-46
	Date:	01/19/21
	Verified by:	Marco Santa Rosa

ENSINGER
P/N 2923

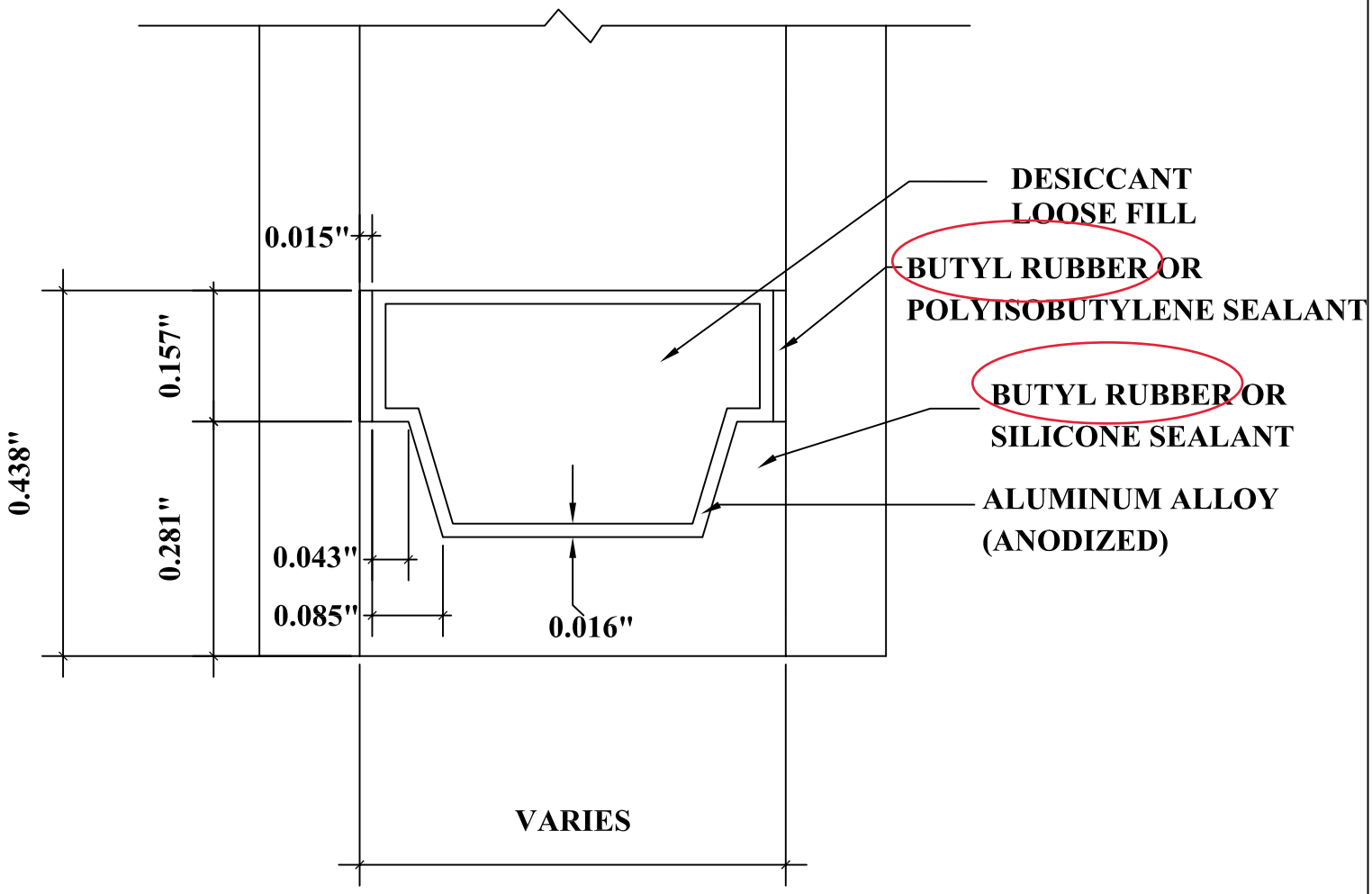


ENSINGER
P/N 2834

Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa



Report #:	L4173.01-301-46
Date:	01/19/21
Verified by:	Marco Santa Rosa



DETAIL FOR THERMAL MODELING OF
ALUMINUM SPACER (A1-D)

2524 East Jensen Avenue
Fresno, California 93706

Telephone: 559-233-8705
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR CR LAURENCE CO., INC.
Report No.: L4173.01-301-46 R1
Date: 02/02/21

SECTION 16
REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01 R0	01/27/21	N/A	Original Report Issue
.01 R1	02/02/21	1 - 5	Revised Product Type and Test Sample Description