

FRAMELESS HARDWARE COMPANY LLC THERMAL PERFORMANCE TEST REPORT

SCOPE OF WORK 500T SERIES ENTRY DOOR

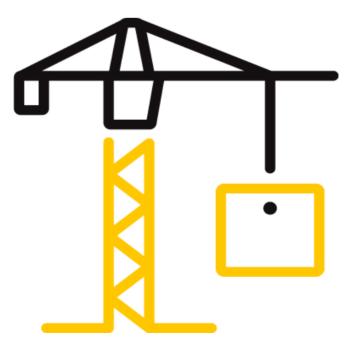
REPORT NUMBER R3639.01-116-46 R0

TEST DATE 09/11/24

ISSUE DATE 09/16/24

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TEST REPORT FOR FRAMELESS HARDWARE COMPANY LLC

Report No.: R3639.01-116-46 R0 Date: 09/16/24

REPORT ISSUED TO

FRAMELESS HARDWARE COMPANY LLC 4361 Firestone Blvd.

SECTION 1

SCOPE

SERIES/MODEL: 500T Series Entry Door TYPE: Swinging Entrance Door (Single)

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Frameless Hardware Company LLC to evaluate the thermal performance per NFRC 102-2023. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in York, Pennsylvania.

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.



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.



TEST REPORT FOR FRAMELESS HARDWARE COMPANY LLC

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SECTION 2

SUMMARY OF TEST RESULTS

Standardized U-factor (Ust):

0.61 Btu/hr·ft²·F (CTS Method)

SECTION 3

TEST SPECIMEN SUMMARY

SERIES/MODEL	500T Series Entry Door			
ТҮРЕ	Swinging Entrance Door (Single)			
OVERALL SIZE	37-3/4" x 82-3/8" (959 mm x 2092 mm) (Model Size)			
NFRC STANDARD SIZE	37.8" x 82.3" (960 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 102-2023, 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	СОМРАНУ
Shon W. Einsig	Intertek B&C
Ryan P. Moser	Intertek B&C



TEST REPORT FOR FRAMELESS HARDWARE COMPANY LLC

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SECTION 7

TEST SAMPLE DESCRIPTION

FRAME

MATERIAL	AU (0.14"): Aluminum w/ Thermal Improvements*			
SIZE	37-3/4" x 82-3/8" (Model Size)			
DAYLIGHT OPENING	N/A GLAZING METHOD N/A			
EXTERIOR COLOR	Clear EXTERIOR FINISH Anodized			
INTERIOR COLOR	Clear INTERIOR FINISH Anodized			
CORNER JOINERY	Coped / Screws / Unsealed			

*Head and jambs were AU (0.14"), sill was AU (0.15")

PANEL

MATERIAL	AU (0.19"): Aluminum w/ Thermal Improvements			
SIZE	33-3/8" x 79-5/8"			
DAYLIGHT OPENING	21-3/8" x 70-1/8" GLAZING METHOD Interior			
EXTERIOR COLOR	Clear EXTERIOR FINISH Anodized			
INTERIOR COLOR	Clear INTERIOR FINISH Anodized			
CORNER JOINERY	Square Cut / Screws / Unsealed			

GLAZING INFORMATION

LAYER 1	1/4"	Guardian SunGuard SNX 62/27 (e=0.020*, #2)	
GAP 1 0.47"		ZF-S: Silicone Foam Spacer	90% Argon*
LAYER 2 1/4"		Guardian SunGuard IS 20 (e=0.198*, #3)	
GAS FILL METHOD		Single-Probe Method*	

*Stated per the client/manufacturer and can affect the validity of results N/A Non-Applicable



TEST REPORT FOR FRAMELESS HARDWARE COMPANY LLC

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SECTION 7 (CONTINUED)

TEST SAMPLE DESCRIPTION (CONTINUED)

WEATHERSTRIPPING

DESCRIPTION	QUANTITY	LOCATION
Polypile with center fin	1 Row	Head and jambs
Flexible hollow bulb gasket	1 Row	Sill
Glazing gasket	1 Row	Exterior glazing perimeter
Glazing gasket	1 Row	Interior glazing perimeter

HARDWARE

DESCRIPTION	QUANTITY	LOCATION
Lock assembly	1	Lock stile
Non-pinch hinge	1	Hinge jamb/stile
Aluminum filler	3	Head and jambs
Aluminum stop	3	Head and jambs
AU (0.15") threshold	1	Sill

DRAINAGE

DRAINAGE METHOD	SIZE	QUANTITY	LOCATION
Sloped sill		1	Sill



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SECTION 8

THERMAL TRANSMITTANCE (U-FACTOR): MEASURED TEST DATA

HEAT FLOWS

1.	Total Measured Input into Metering Box (Qtotal)	1048.06	Btu/hr
2.	Surround Panel Heat Flow (Qsp)	29.26	Btu/hr
3.	Surround Panel Thickness	6.00	inches
4.	Surround Panel Conductance	0.0304	Btu/hr∙ft ² ∙F
5.	Metering Box Wall Heat Flow (Qmb)	8.92	Btu/hr
6.	EMF vs Heat Flow Equation (equivalent information)	0.0114*EMF + -0.006	
7.	Flanking Loss Heat Flow (Qfl)	3.92	Btu/hr
8.	Net Specimen Heat Loss (Qs)	1005.97	Btu/hr
ARE	AS		
1.	Test Specimen Projected Area (As)	21.59	ft ²
2.	Test Specimen Projected Frame Area (Af)	11.19	ft ²
3.	Test Specimen Projected Glazing Area (Ag)	10.41	ft ²
4.	Metering Box Opening Area (Amb)	36.11	ft ²
5.	Metering Box Baffle Area (Ab1)	33.94	ft ²
6.	Surround Panel Interior Exposed Area (Asp)	14.52	ft ²
TES	T CONDITIONS		
1.	Average Metering Room Air Temperature (th)	70.17	F
2.	Average Cold Side Air Temperature (tc)	-0.40	F
3.	Average Guard/Environmental Air Temperature	71.27	F
4.	Metering Room Average Relative Humidity	14.49	%
5.	Metering Room Maximum Relative Humidity	14.88	%
6.	Metering Room Minimum Relative Humidity	14.15	%
7.	Measured Cold Side Wind Velocity (Perpendicular Flow)	12.66	mph
8.	Measured Warm Side Wind Velocity (Parallel Flow)		mph
9.	Measured Static Pressure Difference Across Test Specin	nen 0.00" ± 0.04"	H ₂ O
AVI	ERAGE SURFACE TEMPERATURES		
1.	Metering Room Surround Panel	66.95	F
2.	Cold Side Surround Panel	0.75	F
RES	ULTS		
1.	Thermal Transmittance of Test Specimen (Us)	0.66	Btu/hr·ft ² ·F
2.	Standardized Thermal Transmittance of Test Specimen	(Ust) 0.61	Btu/hr·ft ² ·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	0.80	
	Frame (ef1)		
3.	Warm Side Area-Weighted Surface Emittance of Specimen	0.84	
	Glazing (eg1)		
4.	Warm Side Surface Emittance of Surround Panel (esp1)	0.90	
5.	Warm Side Area-Weighted Surface Emittance in View of	0.85	
	the Baffle (es1)		
6.	Warm Side Baffle Emittance (eb1)	0.92	
7.	Cold Side Baffle Emittance (eb2)	N/A	
8.	Equivalent Warm Side Surface Temperature (t1)	38.19	F
9.	Equivalent Cold Side Surface Temperature (t2)	8.93	F
10.	Warm Side Baffle Surface Temperature	67.77	F
11.	Cold Side Baffle Surface Temperature	N/A	F
12.	Measured Warm Side Surface Conductance (hh)	1.46	Btu/hr·ft ² ·F
13.	Measured Cold Side Surface Conductance (hc)	4.99	Btu/hr·ft ² ·F
14.	Test Specimen Thermal Conductance (Cs)	1.59	Btu/hr·ft ² ·F
15.	Convection Coefficient (Kc)	0.33	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
16.	Radiative Test Specimen Heat Flow (Qr1)	467.68	Btu/hr
17.	Conductive Test Specimen Heat Flow (Qc1)	538.29	Btu/hr
18.	Radiative Heat Flux of Test Specimen (qr1)	21.66	Btu/hr·ft ² ·F
19.	Convective Heat Flux of Test Specimen (qc1)	24.93	Btu/hr·ft ² ·F
20.	Standardized Warm Side Surface Conductance (hsth)	1.23	Btu/hr·ft ² ·F
21.	Standardized Cold Side Surface Conductance (hstc)	5.28	Btu/hr·ft ² ·F
22.	Standardized Thermal Transmittance (Ust)	0.61	Btu/hr·ft ² ·F

SECTION 10

TEST DURATION

- 1. The environmental systems were started at 06:39 hours, 09/10/24.
- 2. The test parameters were considered stable for two consecutive four hour test periods from 07:02 hours, 09/11/24 to 15:02 hours, 09/11/24.
- 3. The thermal performance test results were derived from 11:02 hours, 09/11/24 to 15:02 hours, 09/11/24.



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SECTION 11

GLAZING DEFLECTION

	PANEL
EDGE GAP WIDTH	0.47"
ESTIMATED CENTER GAP WIDTH upon receipt of specimen in laboratory (after stabilization)	0.47"
CENTER GAP WIDTH at laboratory ambient conditions on day of testing	0.47"
CENTER GAP WIDTH at test conditions	0.44"

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 000001) in York, Pennsylvania were last conducted in May 2024 in accordance with Intertek B&C calibration procedure. A CTS Calibration verification was performed August 2024. A Metering Box Wall Transducer and Surround Panel Flanking Loss Characterization was performed July 2024.

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	02/03/24	
2.	CTS Size	21.53	ft ²
3.	CTS Glass/Core Conductance	0.41	Btu/hr·ft ² ·F
4.	Warm Side Air Temperature	69.80	F
5.	Cold Side Air Temperature	-0.40	F
6.	Warm Side Average Surface Temperature	54.29	F
7.	Cold Side Average Surface Temperature	3.78	F
8.	Convection Coefficient (Kc)	0.33	Btu/(hr·ft ² ·F ^{1.25})
9.	Measured Cold Side Surface Conductance (hc)		Btu/hr·ft ² ·F
10.	Measured Thermal Transmittance	0.31	Btu/hr·ft ² ·F

ANSI/NCSL Z540-2-1997 type B uncertainty for this test was 1.51%.

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

"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.

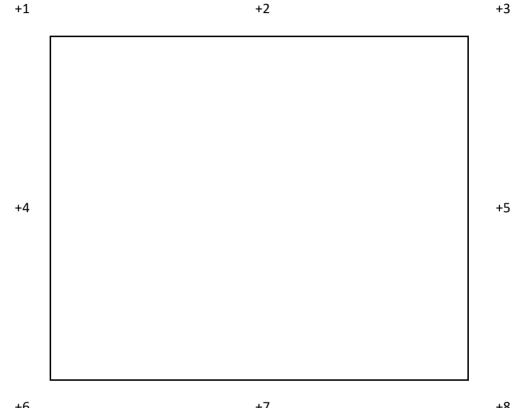


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SECTION 13

SURROUND PANEL WIRING DIAGRAM



+6

+7

+8



TEST REPORT FOR FRAMELESS HARDWARE COMPANY LLC

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SECTION 14

BAFFLE WIRING DIAGRAM

+1	+2	+3
+4	+5	+6
+7	+8	+9
+10	+11	+12
+13	+14	+15



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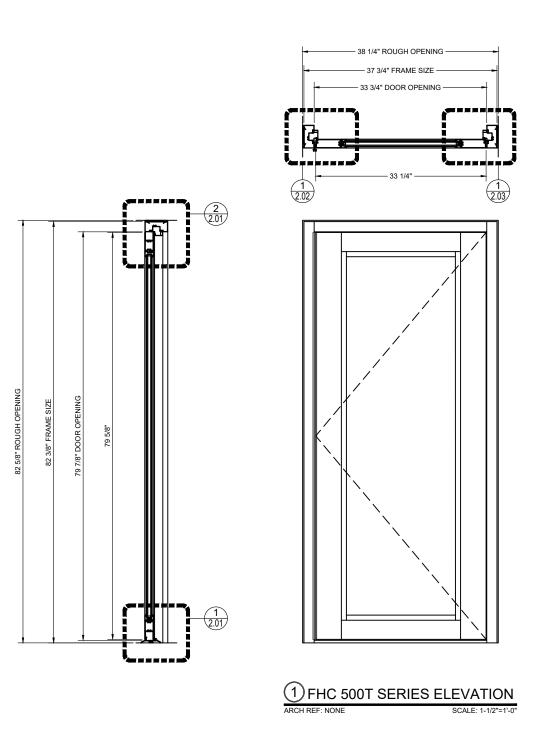
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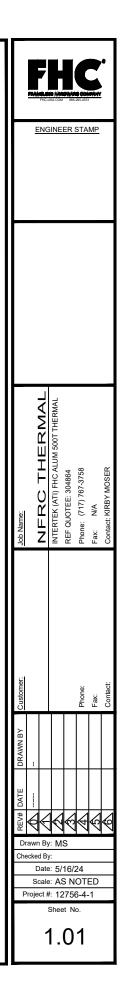
SECTION 15

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 CE	RTIFICA		ROGRAM	E.	UPPC			
Submittal Form	for Tes	st San	nples	7				
For use by Manufacturers, Fabricators	Lineal Su	ppliers ar	nd		l Fenestration ng Council®			
1. Information on Production of the	e Test Sample	e (complete	ALL fields):					
Manufacturer: FHC Frameless H	ardware Com	pany Date	of sample manufa	cture: 7/17/2	7/17/2024			
Plant Address where manufacture	d: 2323 Fires	stone Blvd						
City: South Gate	State	: CA		Zip Code:	90280			
Name of IA: Associated Laborat	ories Inc	Phone:	888-295-4531	Fax:	323-336-8307			
 Product Information (complete generation) Existing Product Line ID (CPD) Not Series/Model: <u>FHC Aluminum 500</u> Test sample is being submitted a. Uvalidation for Initial Certition. Validation for Initial Certitic. Uvalidation for Initial Certitic. Plant Qualification Only of d. Test Only Alternative (product Certification) Mario Salazar Mario Salazar Mario Salazar Mario Salazar Nereby attest that the foregoing Further, if the unit is identified in Stesting laboratory to send a copy of the set o	Thermal Doo Thermal Doo fication (proto fication or Rea (production line) oduction line of information is ection 3 as a	or NE): type only) n certification le unit) unit) & plant , as the s true to the production li	o plant qualificatior (production line uni qualification e designated agent best of my informal ne unit, I hereby au	for <u>FHC</u> tion, <u>knowledge</u>	, and belief. RC-accredited			
pursuant to the NFRC Product Cer								
Signature:	M-SL-		Date:	9/6/2024				
 Laboratory Date Sample Received: Date Sample Tested: Modifications made: 	For L Jak 7/22/ 9/11/	aboratory tele ty ty ty	/ Use Only Test Re	eport #: K By:	23639 Ppm			





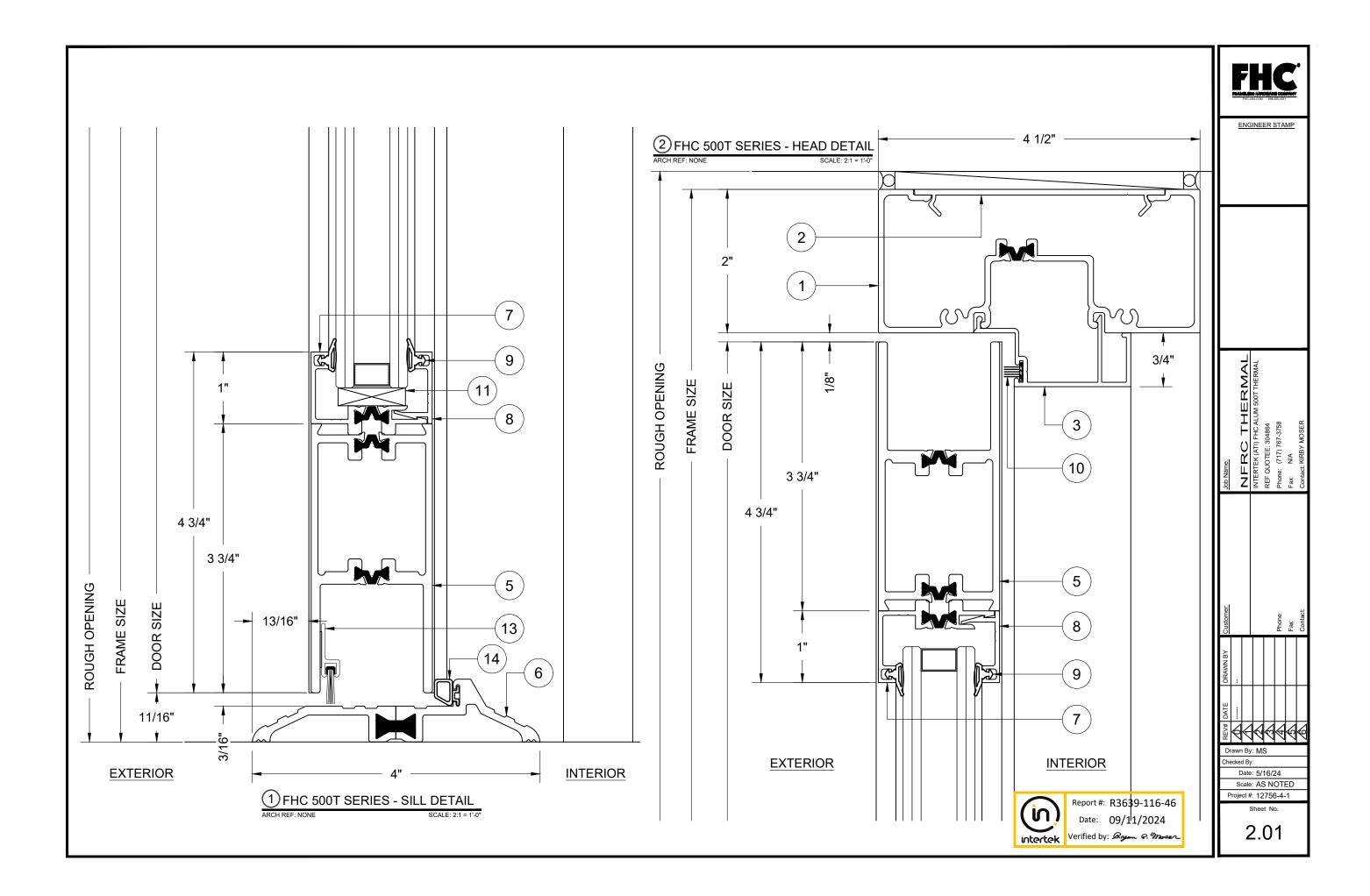
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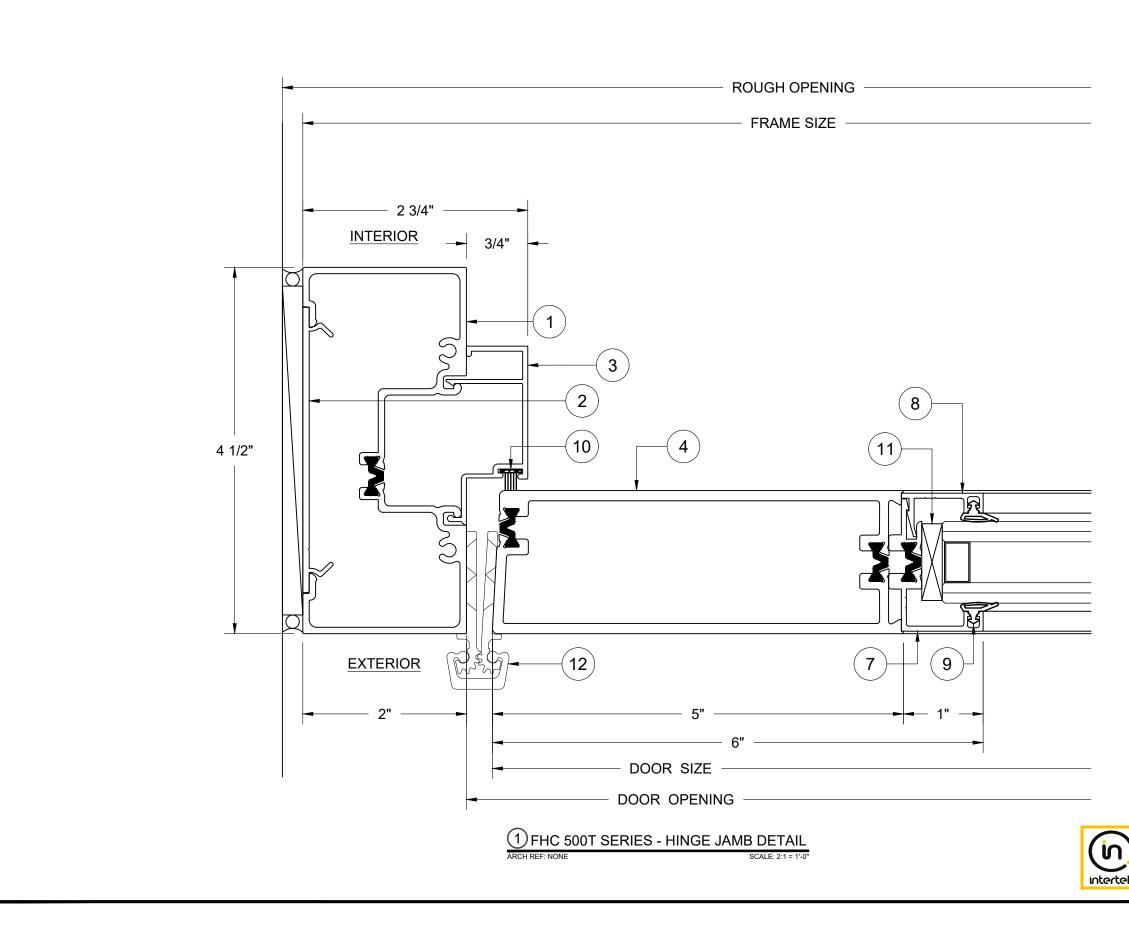
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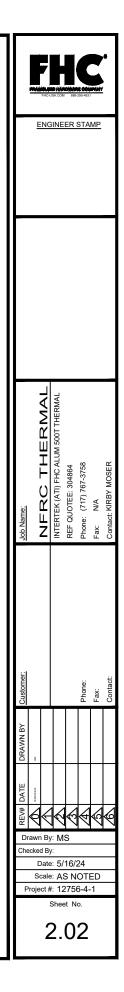
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BILL OF MATERIALS					
PART NUMBER:	DESCRIPTION:	MATERIAL:	FINISH:		
6455TCA	2 X 4-1/2 THERMAL CENTER GLAZED HEAD/JAMB	6063-T6 ALUMINUM	CLEAR ANODIZE		
6925CA	1-3/4 & 2 X 4-1/2 SNAP IN FLAT FILLER	6063-T6 ALUMINUM	CLEAR ANODIZE		
6935CA	SNAP IN DOOR STOP FOR POCKET	6063-T6 ALUMINUM	CLEAR ANODIZE		
6650TCA	OFFSET MEDIUM DOOR STILE BEVEL RAIL THERMAL	6063-T6 ALUMINUM	CLEAR ANODIZE		
5654TCA	MEDIUM STILE 4" TOP & BOTTOM RAIL THERMAL	6063-T6 ALUMINUM	CLEAR ANODIZE		
253X226T	PEMKO LATCHING PANIC SADDLE THRESHOLD	ALUMINUM	MILL		
5674TCA	1" GLASS STOP THERMAL	6063-T6 ALUMINUM	CLEAR ANODIZE		
5675CA	1" GLASS SNAP BEAD FACE	6063-T6 ALUMINUM	CLEAR ANODIZE		
CDSG31612	GLASS STOP GASKET FOR 1/4" 3/16" 1/2" GLASS	EPDM 70A	CARBON BLACK		
9116	DOOR STOP PILE BLACK .270" W X .280" HEIGHT	POLYPROPYLENE	BLACK		
9912	GLASS SETTING BLOCKS (15/16" X 1/4" X 3" LONG)	NEOPRENE/GRADE 80	BLACK		
813083CA	CONTINUOUS HINGE	ALUMINUM	CLEAR ANODIZE		
18041SB	THERMAL DOOR BOTTOM DOOR SWEEP	ALUMINUM	BLACK		
T5R1BL	THRESHOLD THERMAL SEAL	EPDM 70A	BLACK		
· · · · · · · · · · · · · · · · · · ·	6455TCA 6925CA 6935CA 6650TCA 5654TCA 253X226T 5674TCA 5675CA CDSG31612 9116 9912 813083CA 18041SB	PART NUMBER:DESCRIPTION:6455TCA2 X 4-1/2 THERMAL CENTER GLAZED HEAD/JAMB6925CA1-3/4 & 2 X 4-1/2 SNAP IN FLAT FILLER6935CASNAP IN DOOR STOP FOR POCKET6650TCAOFFSET MEDIUM DOOR STILE BEVEL RAIL THERMAL5654TCAMEDIUM STILE 4" TOP & BOTTOM RAIL THERMAL253X226TPEMKO LATCHING PANIC SADDLE THRESHOLD5674TCA1" GLASS STOP THERMAL5675CA1" GLASS SNAP BEAD FACECDSG31612GLASS STOP GASKET FOR 1/4" 3/16" 1/2" GLASS9116DOOR STOP PILE BLACK .270" W X .280" HEIGHT9912GLASS SETTING BLOCKS (15/16" X 1/4" X 3" LONG)813083CACONTINUOUS HINGE18041SBTHERMAL DOOR BOTTOM DOOR SWEEP	PART NUMBER:DESCRIPTION:MATERIAL:6455TCA2 X 4-1/2 THERMAL CENTER GLAZED HEAD/JAMB6063-T6 ALUMINUM6925CA1-3/4 & 2 X 4-1/2 SNAP IN FLAT FILLER6063-T6 ALUMINUM6935CASNAP IN DOOR STOP FOR POCKET6063-T6 ALUMINUM6650TCAOFFSET MEDIUM DOOR STILE BEVEL RAIL THERMAL6063-T6 ALUMINUM6654TCAMEDIUM STILE 4" TOP & BOTTOM RAIL THERMAL6063-T6 ALUMINUM253X226TPEMKO LATCHING PANIC SADDLE THRESHOLDALUMINUM5674TCA1" GLASS STOP THERMAL6063-T6 ALUMINUM5675CA1" GLASS STOP GASKET FOR 1/4" 3/16" 1/2" GLASSEPDM 70A9116DOOR STOP PILE BLACK .270" W X .280" HEIGHTPOLYPROPYLENE9912GLASS SETTING BLOCKS (15/16" X 1/4" X 3" LONG)NEOPRENE/GRADE 80813083CACONTINUOUS HINGEALUMINUM18041SBTHERMAL DOOR BOTTOM DOOR SWEEPALUMINUM		

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JM	CLEAR ANODIZE		(NFRC THERMAL	INTERTEK (ATI) FHC ALUM 500T THERMAL	REF QUOTEE: 304864	Phone: (717) 767-3758	N/A	Contact: KIRBY MOSER
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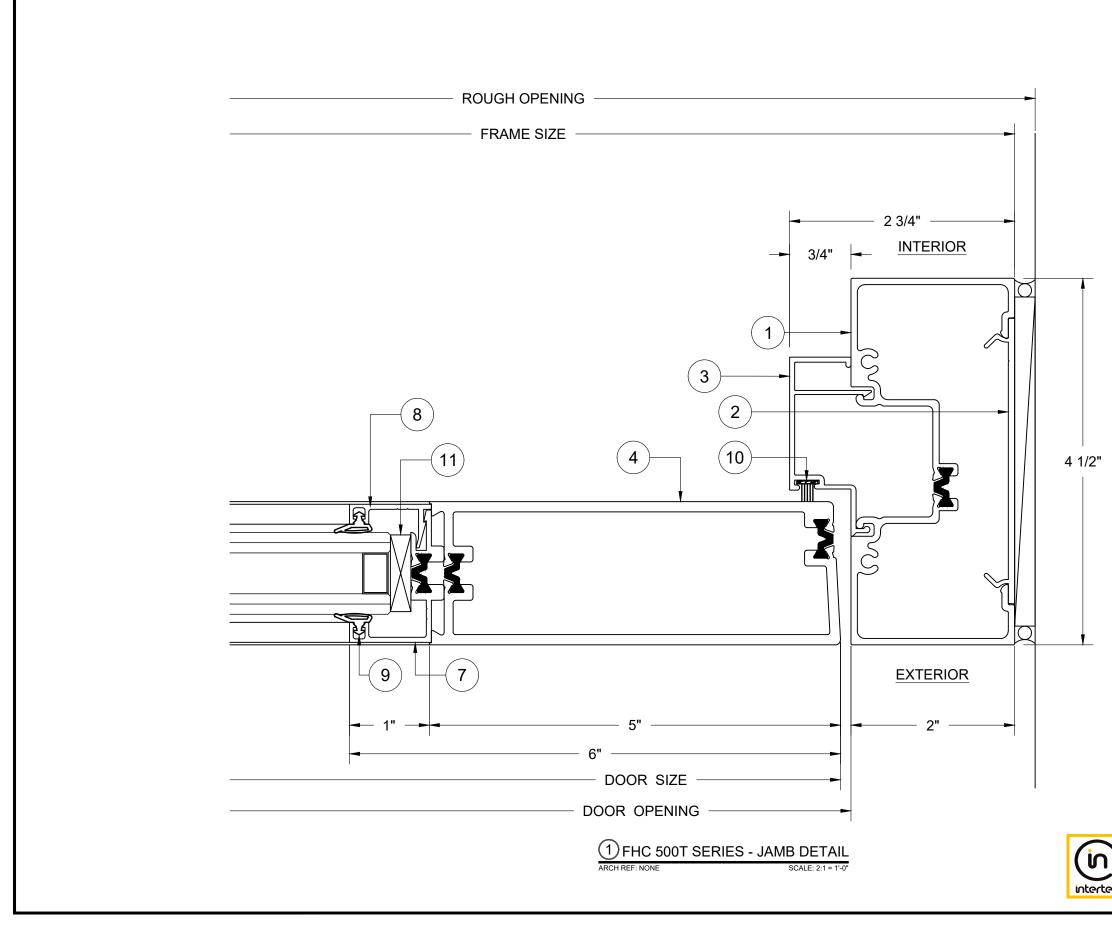


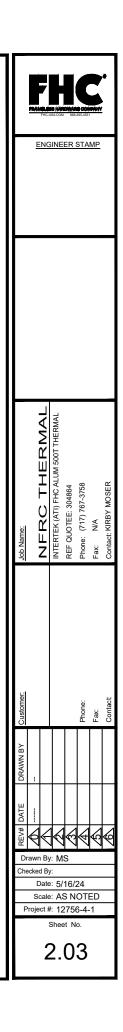


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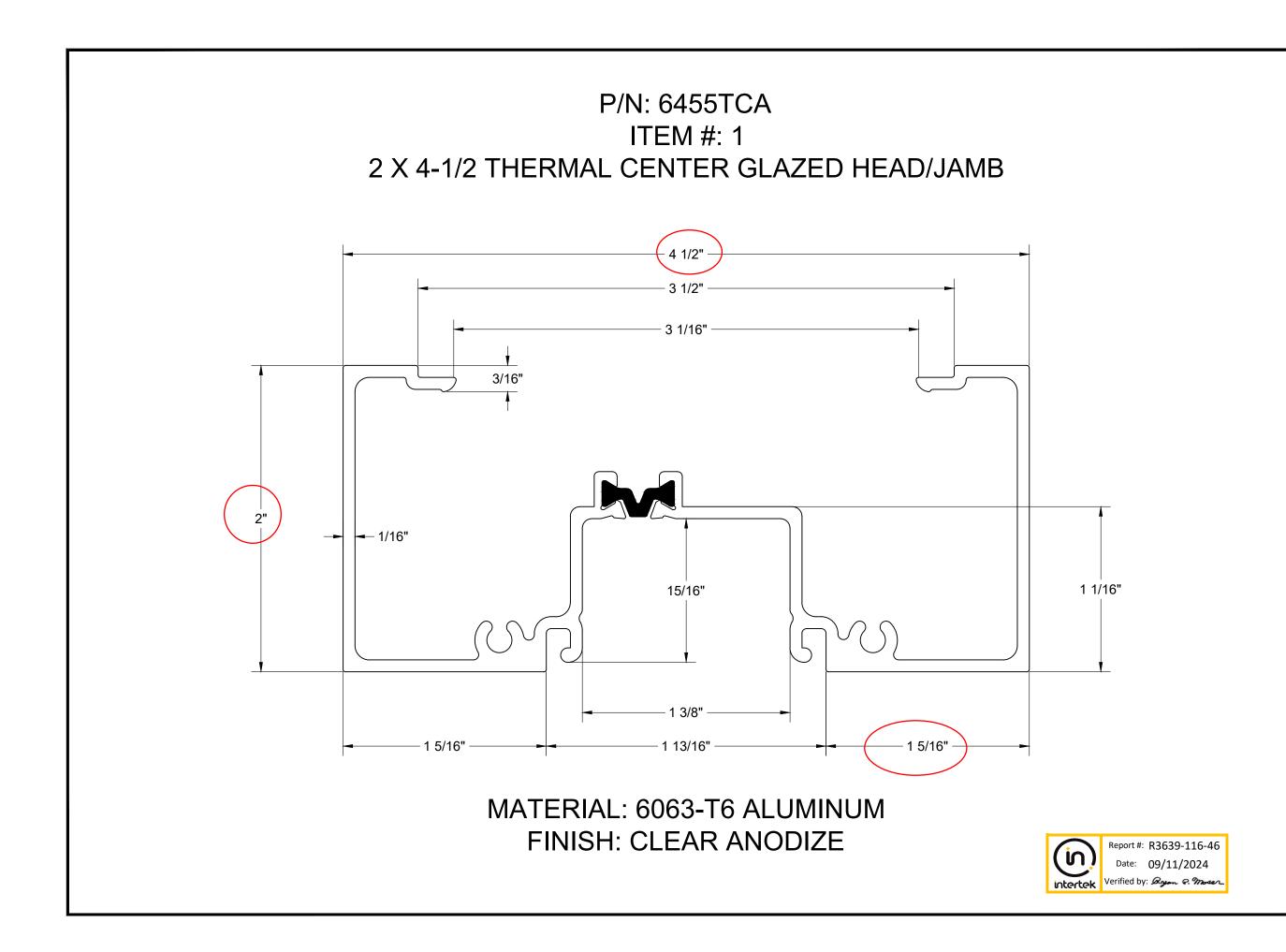
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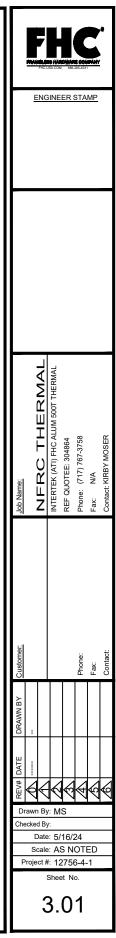
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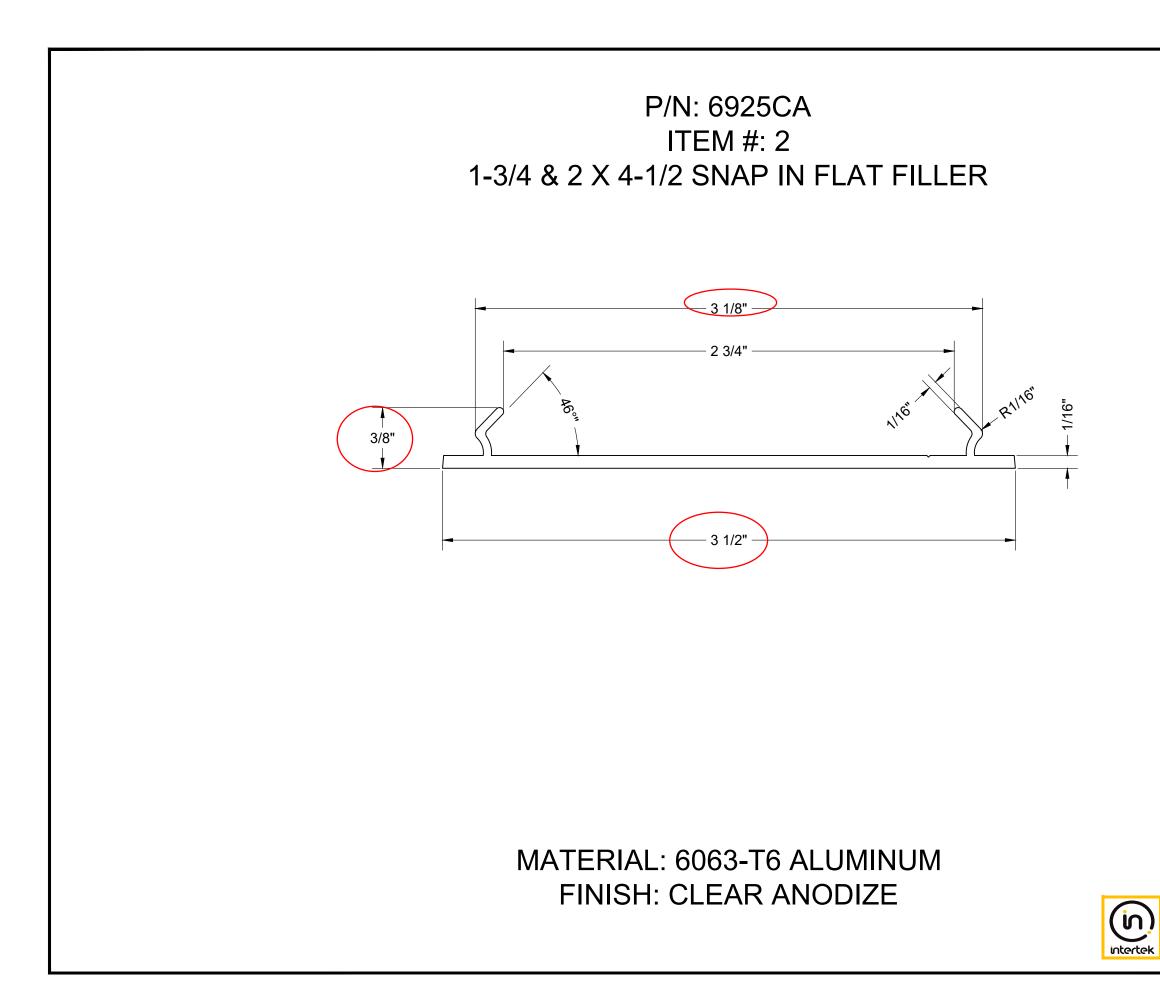


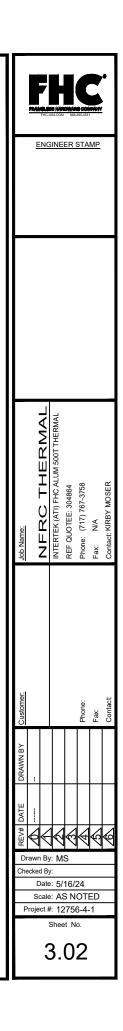


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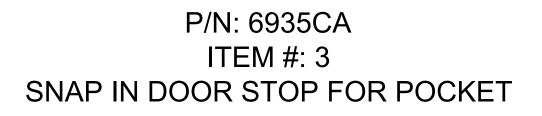


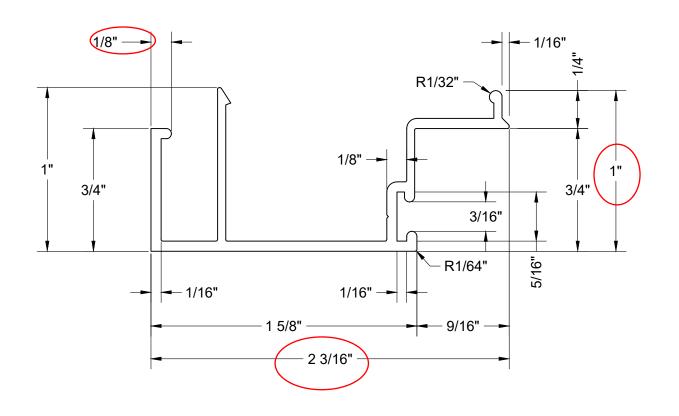






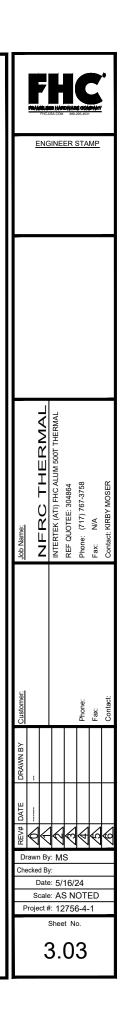
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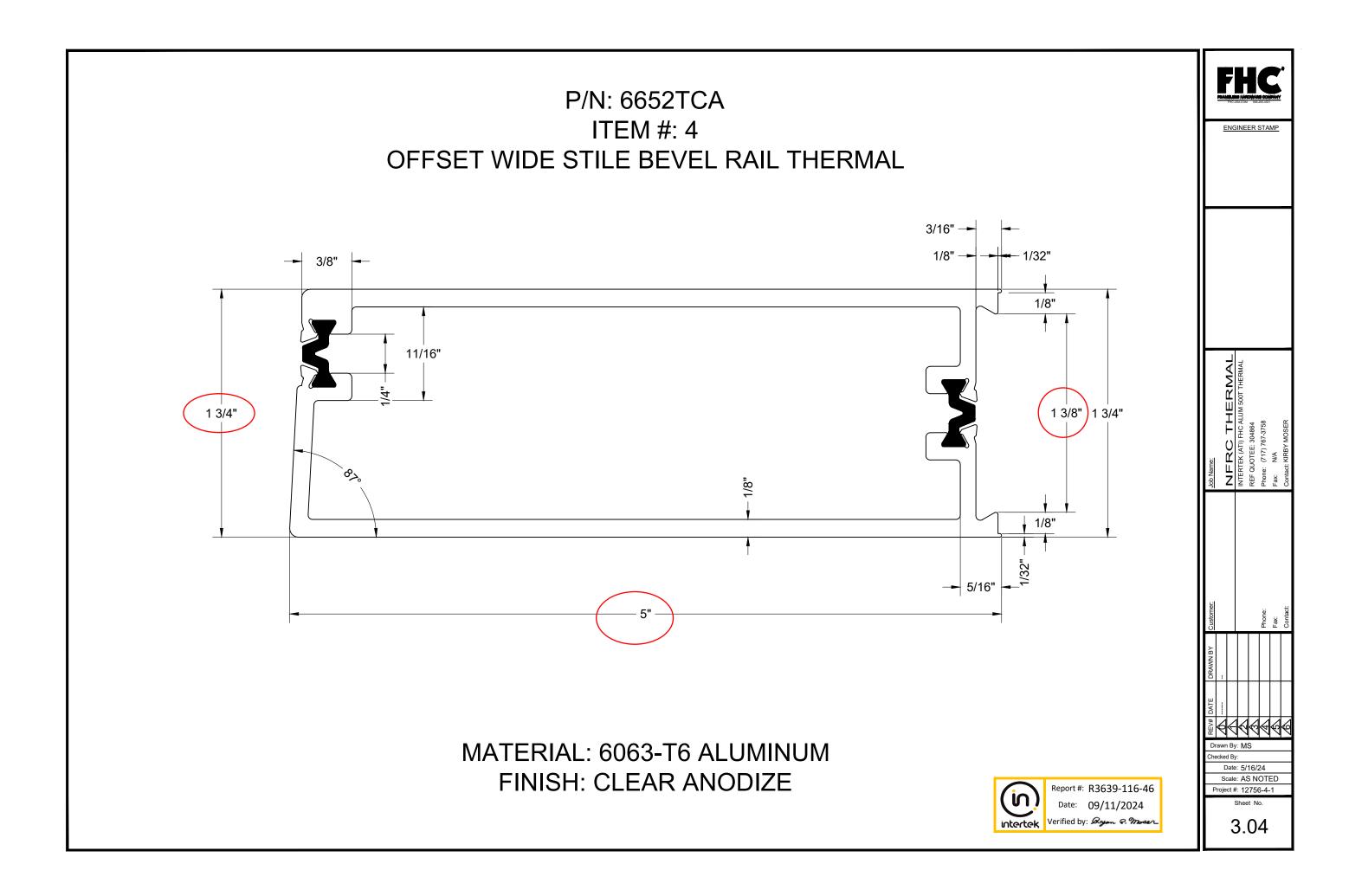


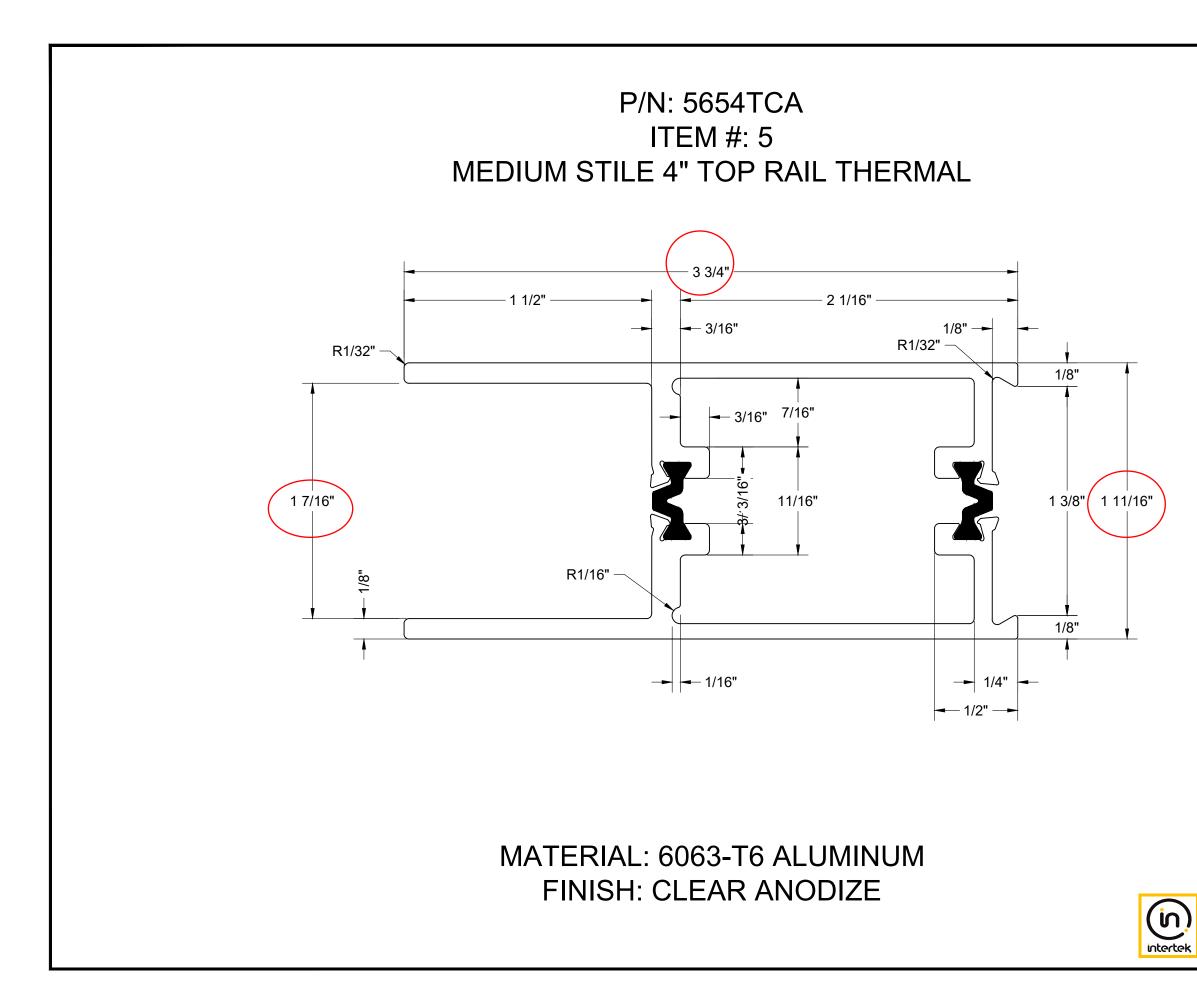
MATERIAL: 6063-T6 ALUMINUM FINISH: CLEAR ANODIZE

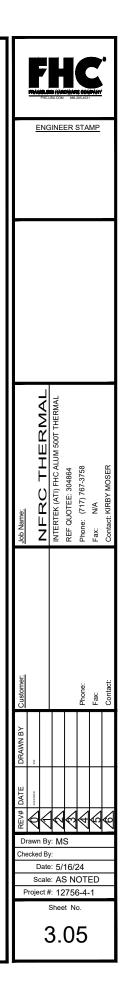




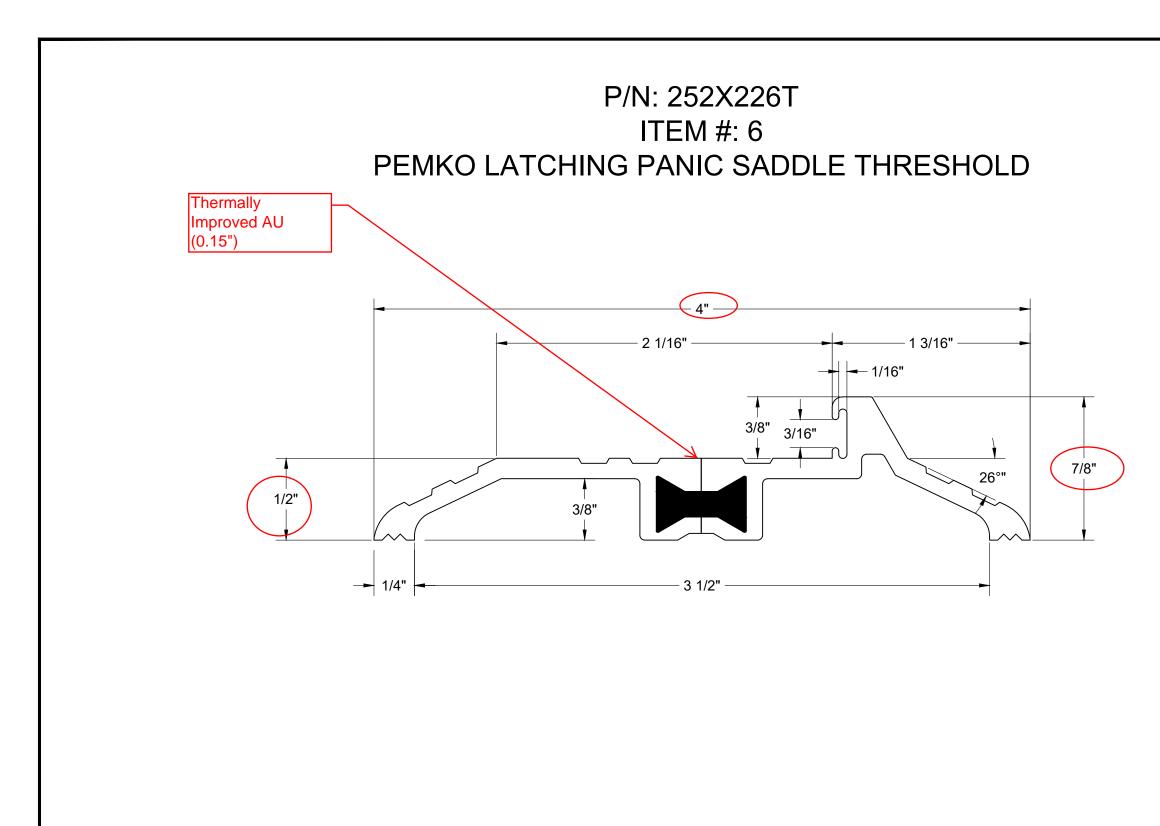
Report #: R3639-116-46 Date: 09/11/2024 intertek Verified by: Byon P. Mosen





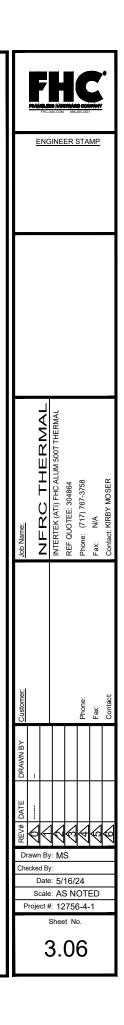


Report #: R3639-116-46 Date: 09/11/2024 Verified by: *Rym. c. Maren*

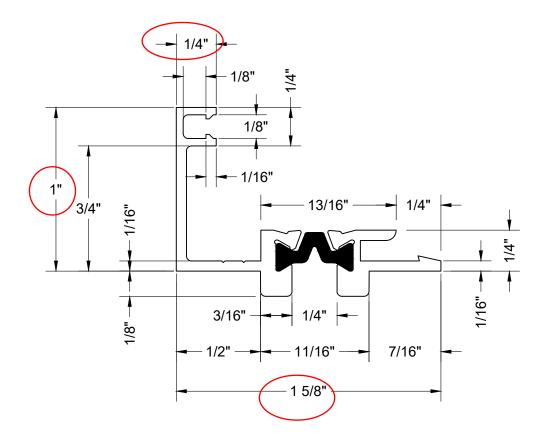


MATERIAL: ALUMINUM FINISH: MILL





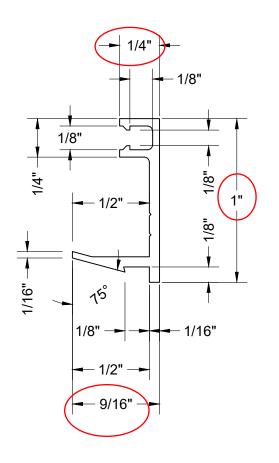
Report #: R3639-116-46 Date: 09/11/2024 Verified by: *Byen P. Maren* P/N: 5674TCA ITEM #: 7 1" GLASS STOP THERMAL



MATERIAL: 6063-T6 ALUMINUM FINISH: CLEAR ANODIZE

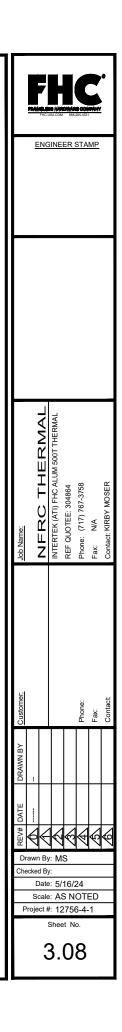


Report #: R3639-116-46 Date: 09/11/2024 Verified by: *Rogen e. Marcen* P/N: 5675CA ITEM #: 8 1" GLASS SNAP BEAD FACE

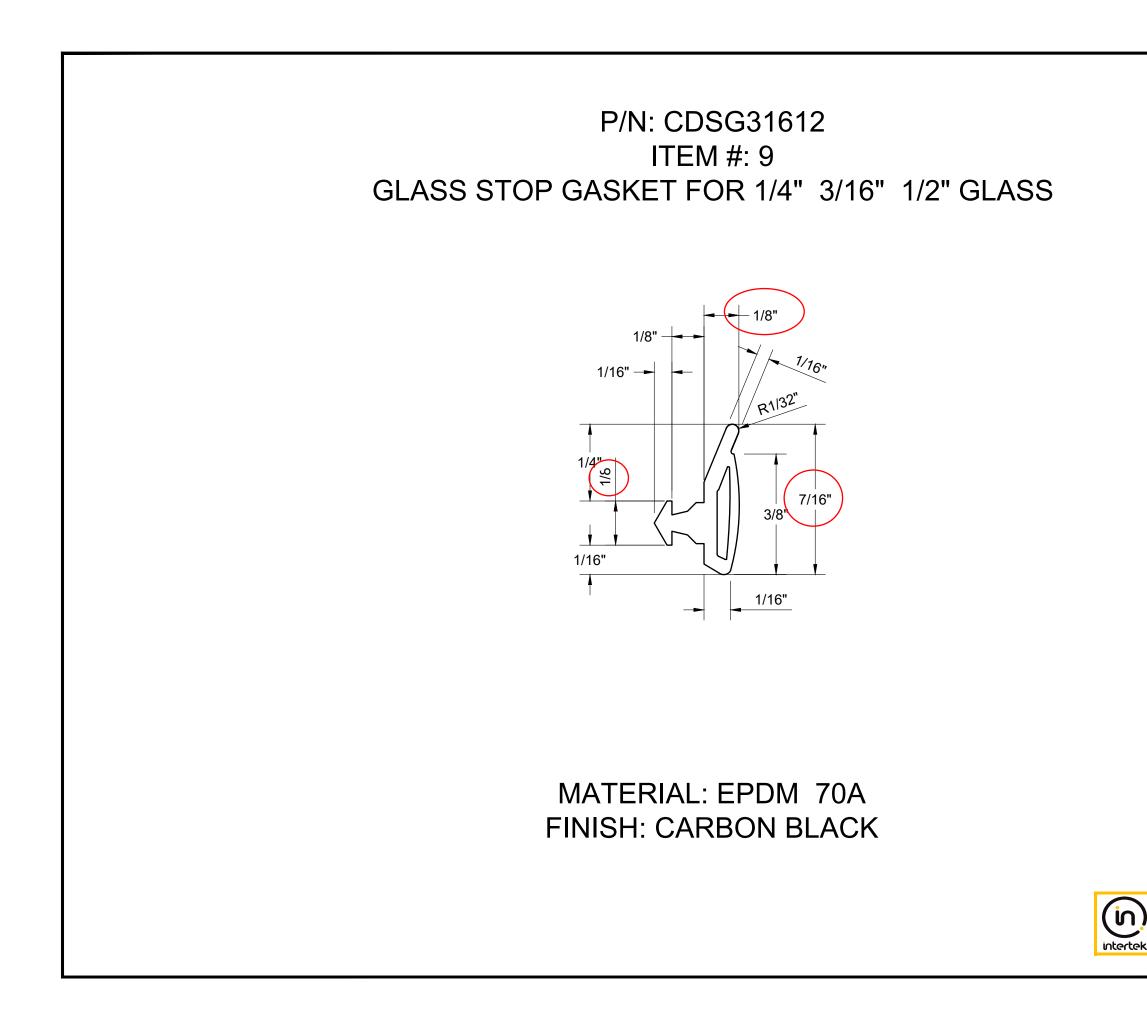


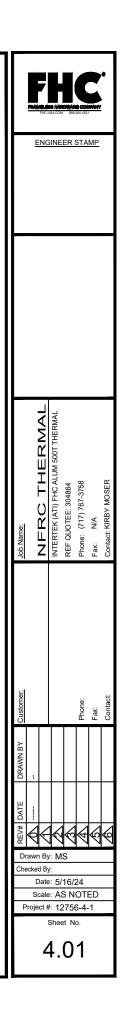
MATERIAL: 6063-T6 ALUMINUM FINISH: CLEAR ANODIZE



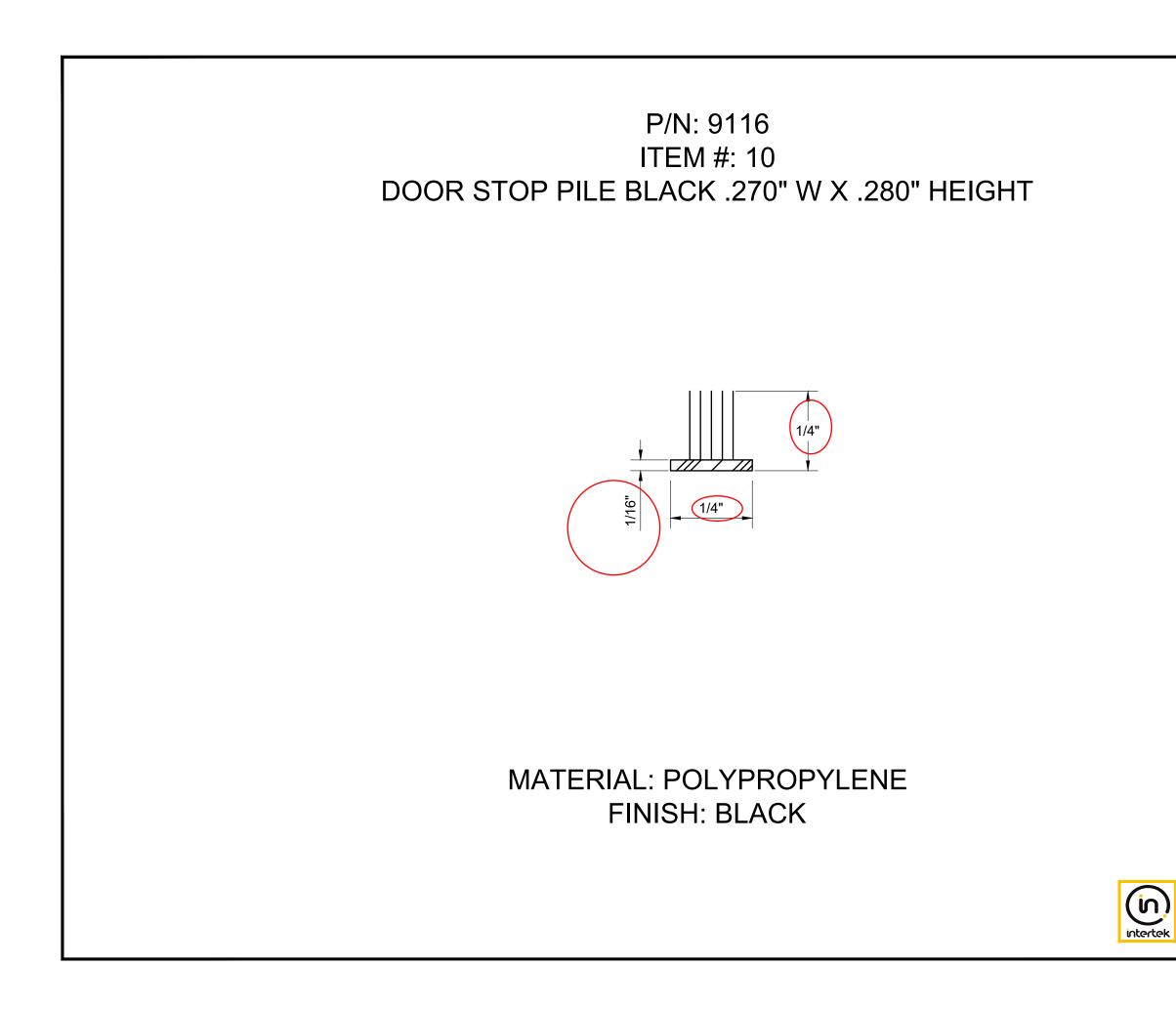


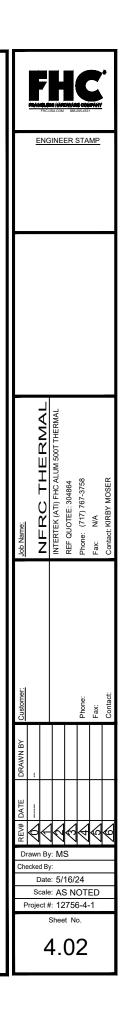
Report #: R3639-116-46 Date: 09/11/2024 Verified by: *Royan C. Mater*





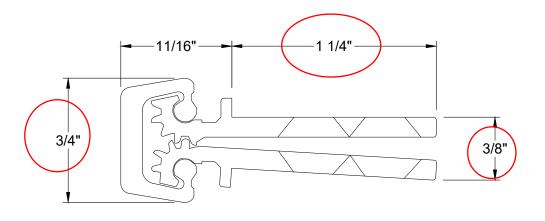
Report #: R3639-116-46 Date: 09/11/2024 Verified by: Ryan & Moder





Report #: R3639-116-46 Date: 09/11/2024 Verified by: *Bysen c. Moder*

P/N: 813083CA ITEM #: 12 CONTINUOUS HINGE



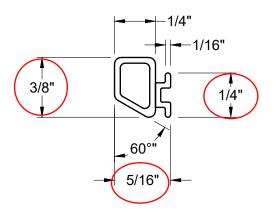
MATERIAL: ALUMINUM FINISH: CLEAR ANODIZE





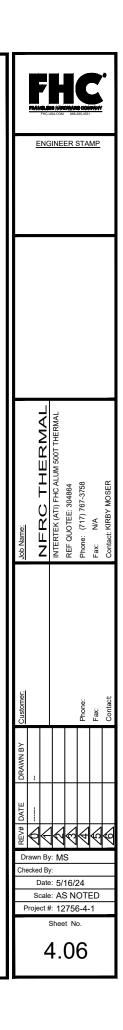
Report #: R3639-116-46 Date: 09/11/2024 intertek Verified by: Byon P. mos

P/N: T5R1BL ITEM #: 14 THRESHOLD THERMAL SEAL

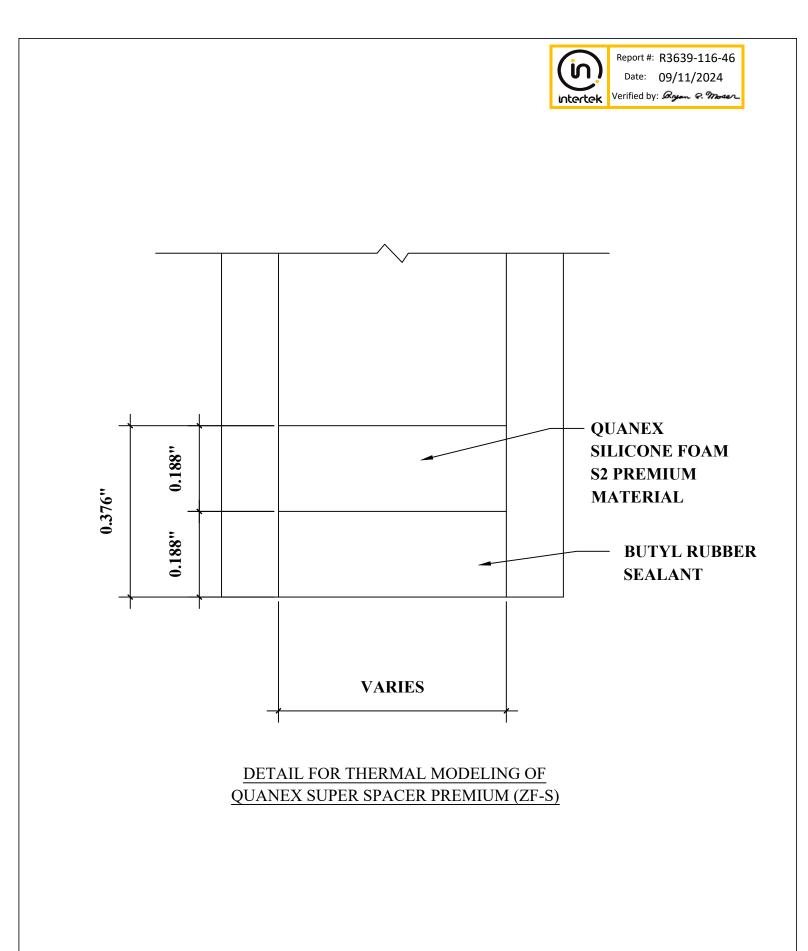


MATERIAL: EPDM 70A FINISH: BLACK





Report #: R3639-116-46 (ທ) Date: 09/11/2024 intertek Verified by: Ryon P. Mosen





TEST REPORT FOR FRAMELESS HARDWARE COMPANY LLC

Report No.: R3639.01-116-46 R0 Date: 09/16/24

SECTION 16

REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01 R0	09/16/24	N/A	Original Report Issue