

TEMO, INC.

FLORIDA BUILDING CODE TEST REPORT

SCOPE OF WORK

TAS 201, TAS 202, AND TAS 203 TESTING ON SIDE HINGED DOOR WITH TRANSOM

REPORT NUMBER

S1913.01-120-32 R0

TEST DATE(S)

04/08/25 – 04/15/25

ISSUE DATE

05/19/25

LABORATORY CERTIFICATION NO.

22-0428.14

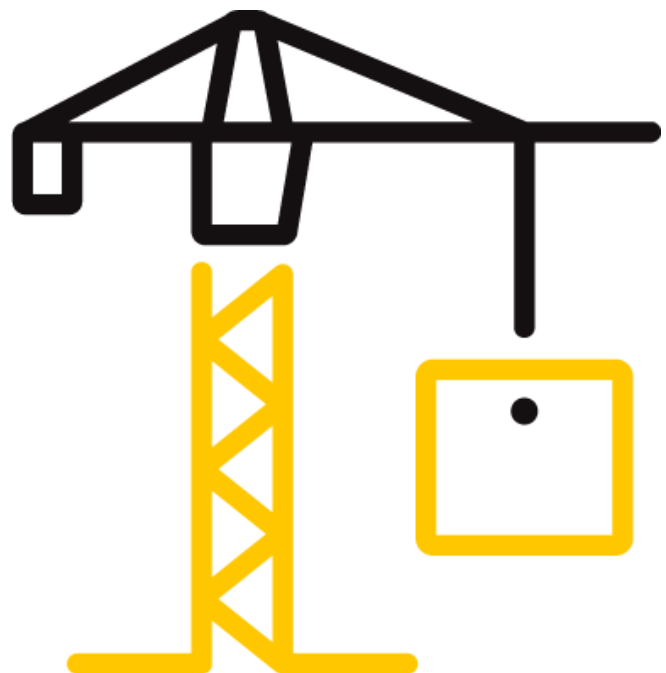
PAGES

33

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2816 (06/21/24)

© 2017 INTERTEK



TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

REPORT ISSUED TO

TEMO, INC.

20400 Hall Road

Clinton Township, MI 48038

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by TEMO, Inc., to perform TAS 201, TAS 202, and TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone requirements on their Side Hinged Door with Transom. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in York, Pennsylvania. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

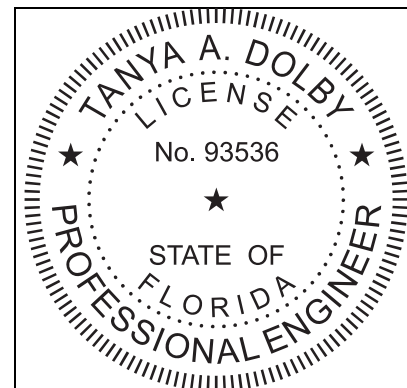
SUMMARY OF TEST RESULTS

The specimen(s) tested met the performance requirements set forth in the protocols.

Product Type: Side Hinged Door with Transom

Series/Model: HZ

SPEC.	TEST PROTOCOL	DESIGN PRESSURE
1	TAS 202	+55.0 / -55.0 psf
2	TAS 201/203 (Large Missile)	+55.0 / -55.0 psf
3	TAS 201/203 (Large Missile)	+55.0 / -55.0 psf
4	TAS 201/203 (Large Missile)	+55.0 / -55.0 psf



For INTERTEK B&C:

COMPLETED BY: Kyle W. Ruth
Technician –
Project Testing

TITLE:

SIGNATURE: 
Digitally Signed by: Kyle Ruth

DATE: 05/19/25

REVIEWED BY: Tanya Dolby, P.E.
Manager –
Engineering Services

TITLE:

SIGNATURE: 
Digitally Signed by: Tanya Dolby

DATE: 05/19/25

KWR:rdw

2025.05.22 14:32:16 -0400

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 TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

TAS 201-94, *Impact Test Procedures*

TAS 202-94, *Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen(s) were provided by the client. Representative samples of the test specimen(s) were not retained by Intertek B&C.

The specimen(s) were installed into a Spruce-Pine-Fir wood test buck. The exterior perimeter of the specimen(s) was sealed with sealant. Installation of the tested product was performed by Intertek B&C and TEMO, Inc.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Head, sill, and jamb tracks	#10 x 2-1/2" pan head screws with sealing washer	Spaced at 16" on center

SECTION 5

EQUIPMENT

Cannon: Constructed from steel piping utilizing compressed air to propel the missile

Missile: 2x4 Southern Pine

Timing Device: Electronic beam type

Cycling Mechanism: Computer-controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: 1" dial indicators

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Luay Esho	TEMO, Inc.
Mark Nowicki	TEMO, Inc.
Jeff Pratton	TEMO, Inc.
Jerry Gibboney	Intertek B&C
Zach Mohar	Intertek B&C
Kyle Ruth	Intertek B&C

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Side Hinged Door with Transom

Series/Model: HZ

Product Size(s):

OVERALL AREA:	WIDTH	HEIGHT
29.5 ft ²	inches	inches
Overall Size	39	109
Door Leaf	34-1/4	79
Door DLO	24	67-1/2

Note: Reference Section 12 for detailed drawings for specimen construction.

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 8
TEST RESULTS
Protocol TAS 202-94, Static Air Pressure
Test Date(s): 04/08/25 through 04/10/25

The temperature during testing was 52°F - 57°F. The results are tabulated as follows:

Test Specimen #1: Air Leakage per TAS 202

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Air Leakage, Infiltration per TAS 202 at 1.57 psf (25 mph)	0.16 cfm/ft ²	0.30 cfm/ft ² max.	1
Air Leakage, Infiltration per TAS 202 at 6.27 psf (50 mph)	0.30 cfm/ft ²	0.30 cfm/ft ² max.	1

Note 1: Test Date 04/09/25 / Time: 12:50 PM

Test Specimen #1: Preload and Design Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)
		MEASURED	MEASURED
+41.36 50% of Test Pressure	1	0.110	0.020
	2	0.110	0.020
	3	0.110	0.020
+55.14 Design Pressure	1	0.160	0.020
	2	0.160	0.020
	3	0.150	0.020
-41.36 50% of Test Pressure	1	0.130	0.030
	2	0.140	0.030
	3	0.140	0.030
-55.14 Design Pressure	1	0.200	0.030
	2	0.200	0.030
	3	0.200	0.030

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

Test Specimen #1: Water Penetration per TAS 202

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration, per TAS 202 15% of Positive Design Pressure at 8.35 psf	Pass	No leakage	2

Test Specimen #1: Structural Overload Load per TAS 202

LOAD (psf)	INDICATOR LOCATION	DEFLECTION (in.)	PERMANENT SET (in.)
		MEASURED	MEASURED
+82.71 Test Pressure	1	0.210	0.030
	2	0.210	0.030
	3	0.210	0.020
-82.71 Test Pressure	1	0.280	0.050
	2	0.290	0.040
	3	0.300	0.040

Note 2: Positive and negative uniform static load test loads were held for 30 seconds.

Note 3: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Note 4: See Sketch #1 for indicator locations.

Test Specimen #1: Forced Entry Resistance per TAS 202

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Forced Entry Resistance, per AAMA 1304	Pass	No entry	

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

Protocol TAS 201-94, Large Missile Impact Procedures

Test Date: 04/08/25

The temperature during testing was 60°F. The results are tabulated as follows:

Test Specimen #2

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
1	9.16	98	49.2
2			49.0
3			49.1
4			49.2

Test Specimen #3

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
1	9.16	98	49.3
2			49.4
3			49.4
4			49.3

Test Specimen #4

IMPACT #	MISSILE WEIGHT (lbs.)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
1	9.18	98	50.0
2			50.0
3			50.0
4			50.4

Note 5: See Sketch #2 for impact locations.

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

Protocol TAS 203-94, Cyclic Wind Pressure Loading
Test Date(s): 04/11/25 through 04/15/25

The temperature during testing was 59°F - 65°F. The results are tabulated as follows:

Test Specimen #2: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE			
+55.0 / -55.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	11.0 – 27.5	0 – 33.0	27.5 – 44.0	16.5 – 55.0
AVERAGE CYCLE TIME (sec.)	1.3	1.7	1.3	1.9
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	16.5 – 55.0	27.5 – 44.0	0 – 33.0	11.0 – 27.5
AVERAGE CYCLE TIME (sec.)	2.1	1.5	2.1	1.5
NUMBER OF CYCLES	50	1050	50	3350

Test Specimen #2: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.260	0.040
2	0.260	0.040
3	0.260	0.050

Test Specimen #2: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.350	0.060
2	0.350	0.090
3	0.360	0.080

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

Test Specimen #3: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE			
+55.0 / -55.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	11.0 – 27.5	0 – 33.0	27.5 – 44.0	16.5 – 55.0
AVERAGE CYCLE TIME (sec.)	1.5	1.9	1.5	1.7
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	16.5 – 55.0	27.5 – 44.0	0 – 33.0	11.0 – 27.5
AVERAGE CYCLE TIME (sec.)	2.5	1.7	2.5	1.7
NUMBER OF CYCLES	50	1050	50	3350

Test Specimen #3: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.200	0.020
2	0.200	0.020
3	0.210	0.020

Test Specimen #3: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.380	0.070
2	0.380	0.070
3	0.420	0.100

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

Test Specimen #4: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE			
+55.0 / -55.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	11.0 – 27.5	0 – 33.0	27.5 – 44.0	16.5 – 55.0
AVERAGE CYCLE TIME (sec.)	1.5	1.9	1.5	2.1
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	16.5 – 55.0	27.5 – 44.0	0 – 33.0	11.0 – 27.5
AVERAGE CYCLE TIME (sec.)	2.1	1.7	2.3	1.7
NUMBER OF CYCLES	50	1050	50	3350

Test Specimen #4: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.270	0.040
2	0.270	0.050
3	0.280	0.050

Test Specimen #4: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
1	0.380	0.080
2	0.380	0.080
3	0.390	0.090

Note 6: See Sketch #1 for indicator locations.

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 9

CONCLUSIONS

The large missiles impacted each intended target. Each impact location was carefully inspected. No signs of penetration, rupture, or opening after the large missile impact test were observed; as such, each test specimen satisfies the large missile requirements of TAS 201. Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building.

No signs of failure were observed in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202. Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

No signs of failure were observed in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203. Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building.

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.

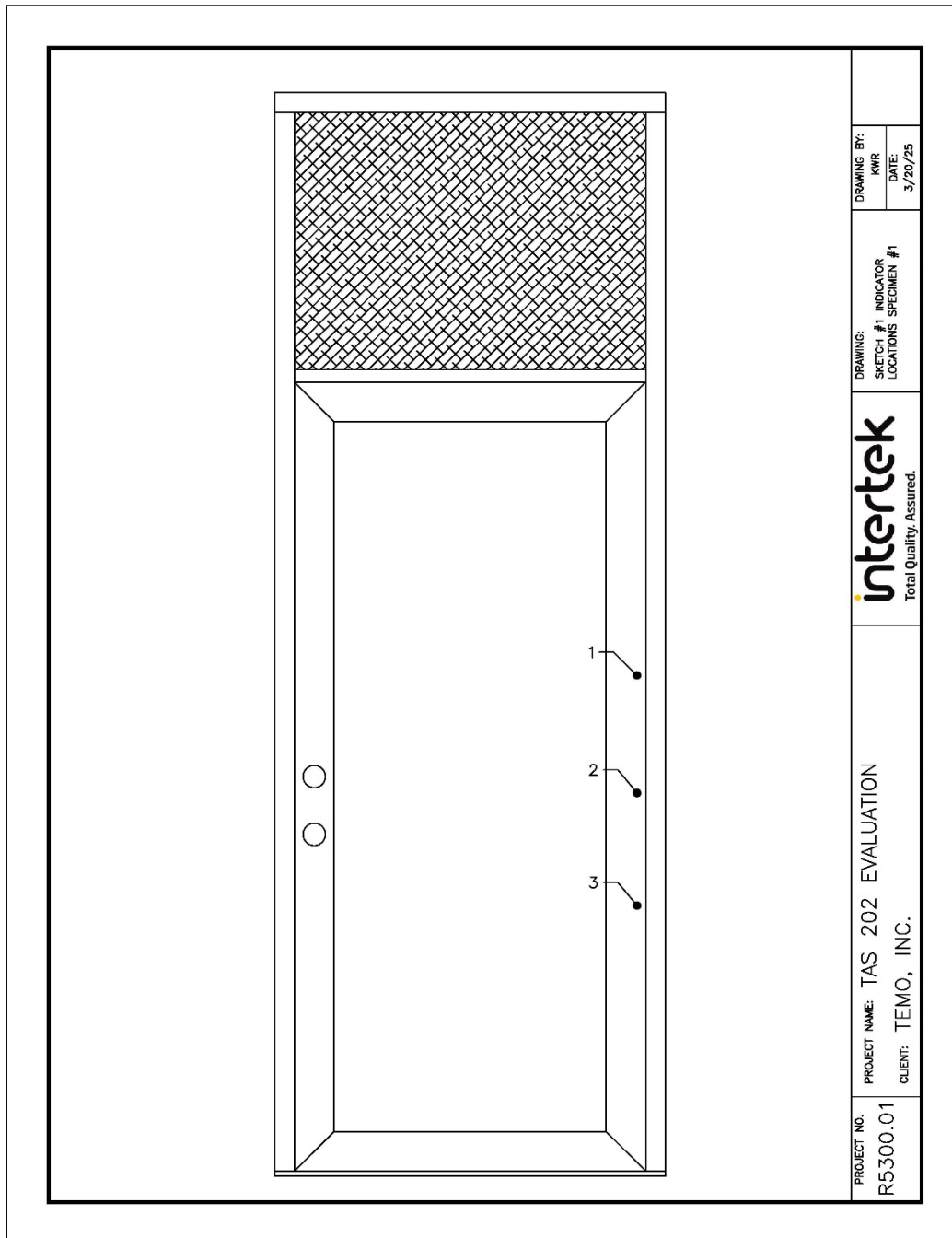
TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 10

SKETCH(ES)

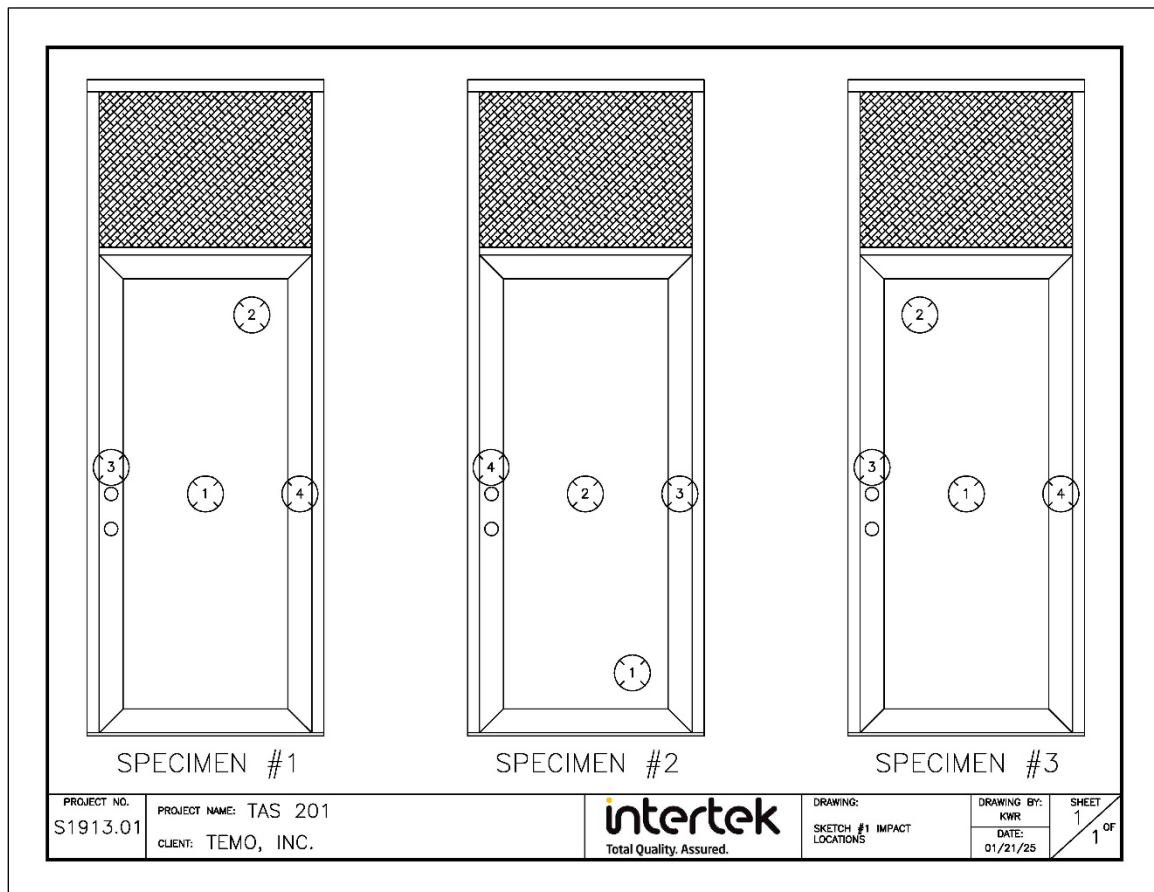


Sketch No. 1
TAS 202/203 Indicator Locations

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Sketch No. 2
TAS 201 Impact Locations

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 11

PHOTOGRAPHS

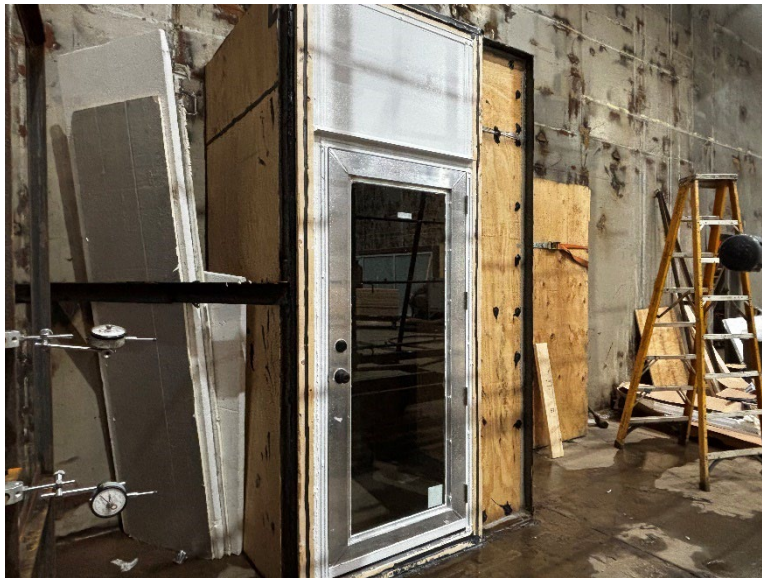


Photo No. 1
TAS 202 Test Specimen



Photo No. 2
Static Air Infiltration Tare Bag

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Photo No. 3
Static Water Penetration Testing

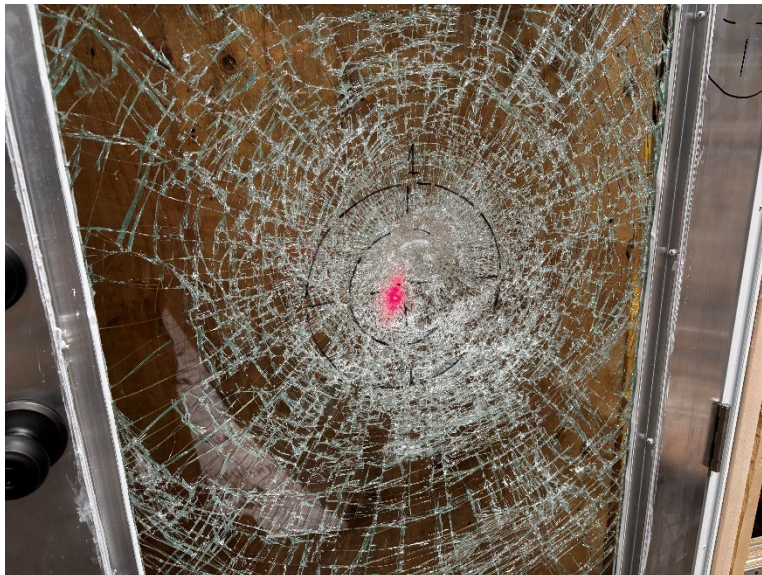


Photo No. 4
Specimen # 2 - Impact #1

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Photo No. 5
Specimen # 2 - Impact #2

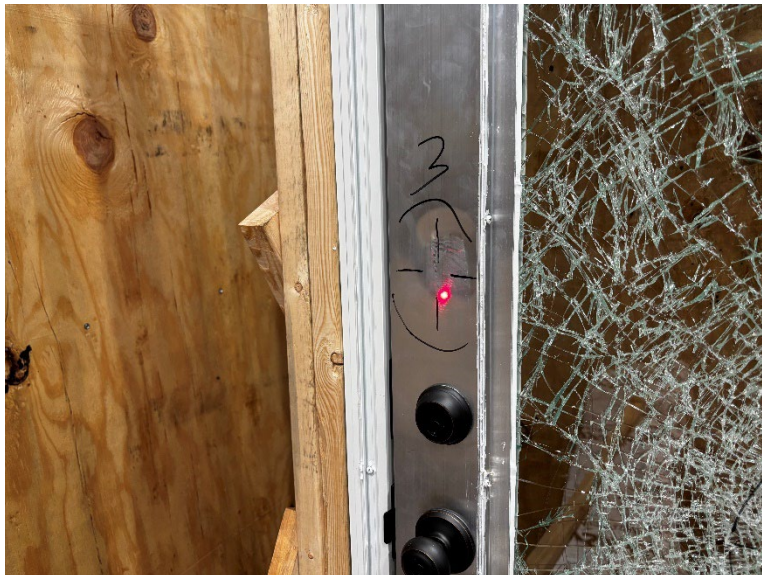


Photo No. 6
Specimen # 2 - Impact #3

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Photo No. 7
Specimen # 2 - Impact #4



Photo No. 8
Specimen # 3 - Impact #1

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

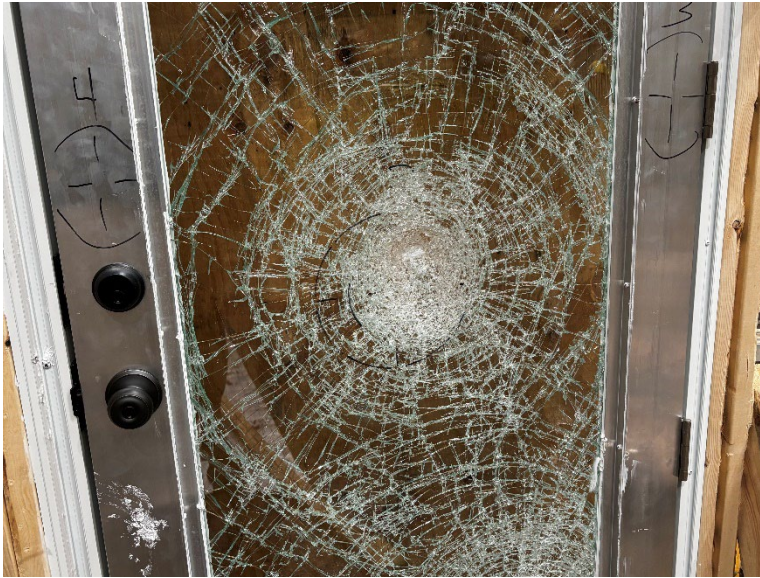


Photo No. 9
Specimen # 3 - Impact #2

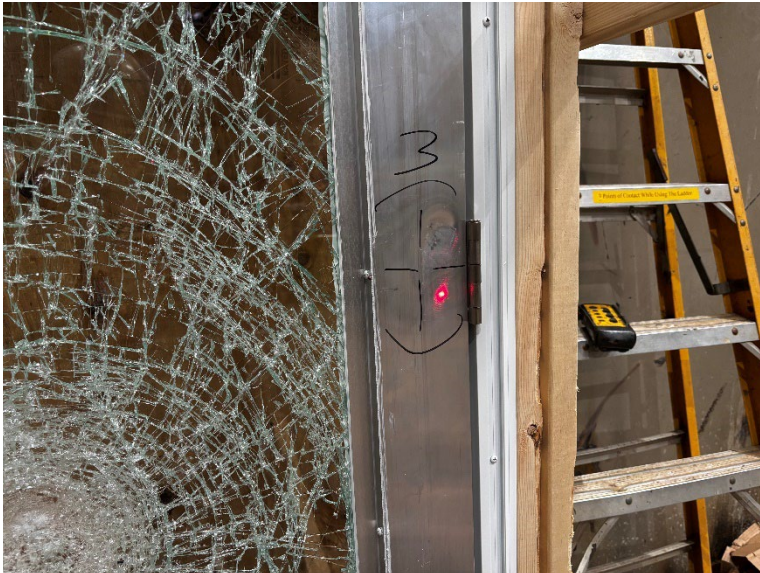


Photo No. 10
Specimen # 3 - Impact #3

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Photo No. 11
Specimen # 3 - Impact #4

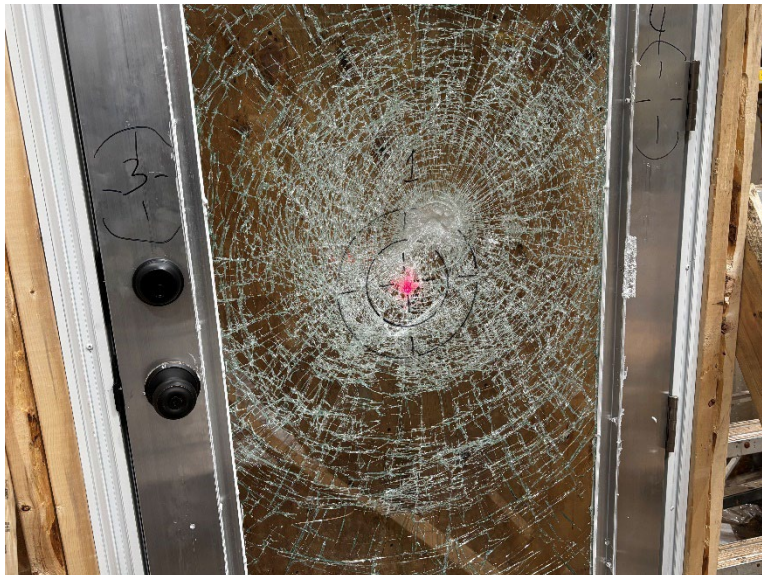


Photo No. 12
Specimen # 4 - Impact #1

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Photo No. 13
Specimen # 4 - Impact #2

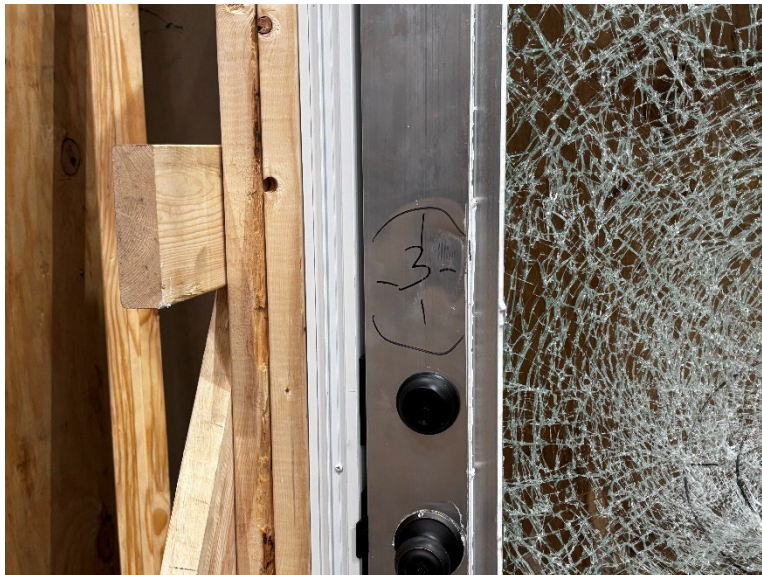


Photo No. 14
Specimen # 4 - Impact #3

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25



Photo No. 15
Specimen # 4 - Impact #4



Photo No. 16
TAS 203 Test Setup



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

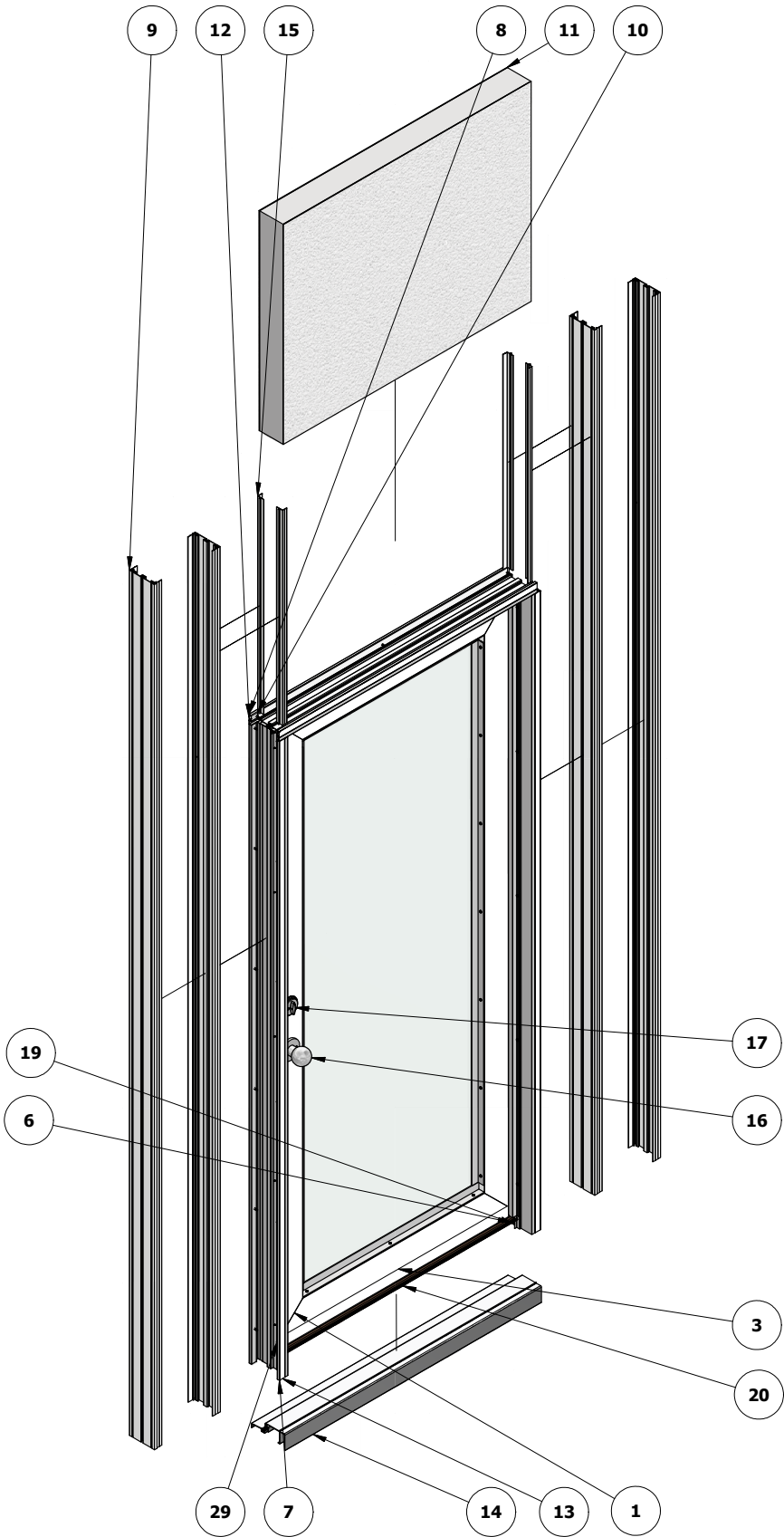
Date: 05/19/25

SECTION 12

DRAWINGS

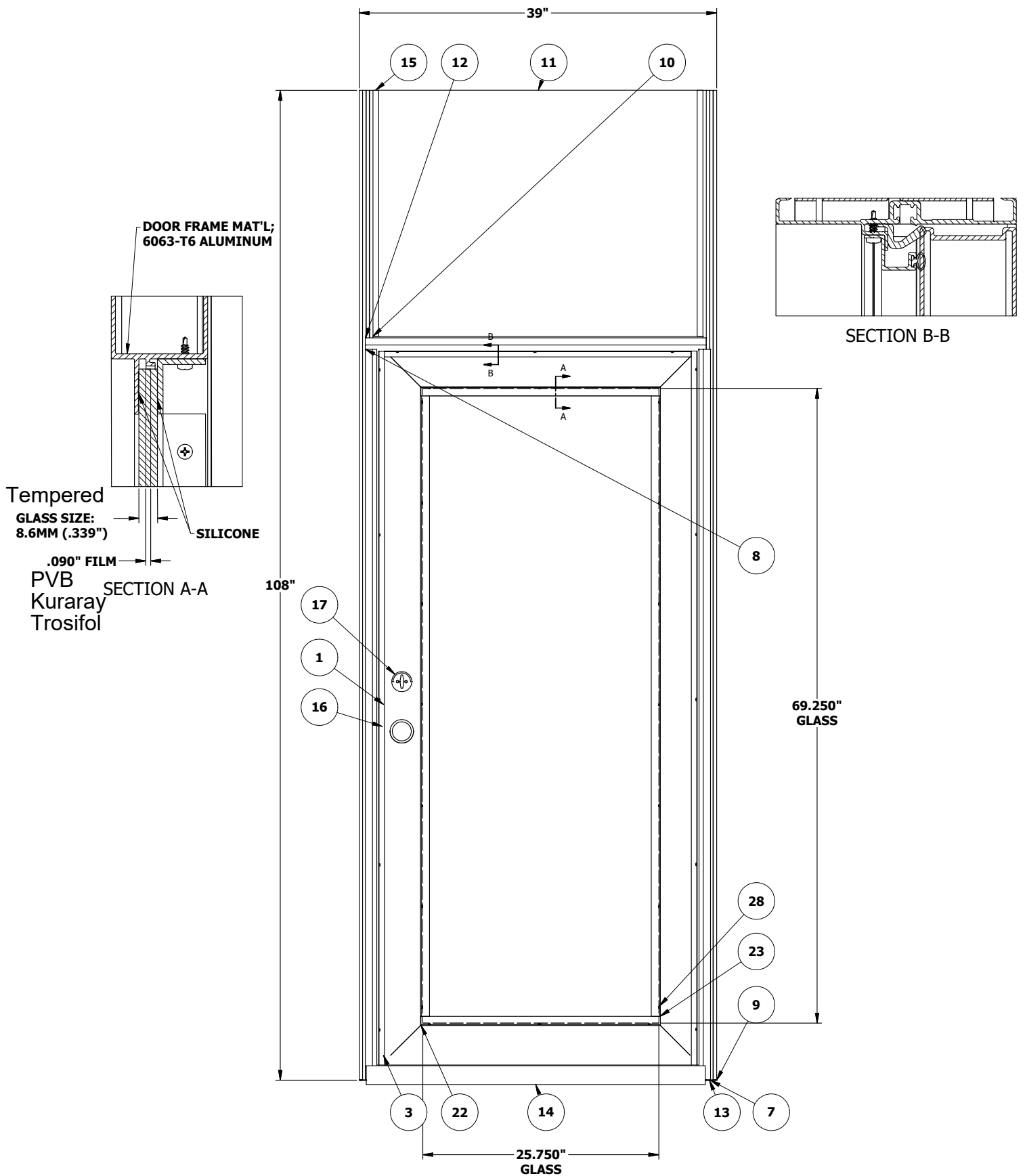
The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

PARTS LIST			
ITEM	QTY	DIE #	DESCRIPTION
1	1		WELDED DOOR FRAME 34.25x77.75
2	1		IMPACT DOOR GLASS 8.6x25.75x69.375
3	1	12375	DOOR SWEEP EXPANDER 34.25
4	1		EXPANDER FOAM
5	1		EXPANDER END CAP PLASTIC
6	2		DOOR SWEEP RUBBER
7	2	14673	JAMB 79.75
8	1	14673	JAMB 37.188
9	4	32176	406 UNIVERSAL MULLION 108
10	1	32176	406 UNIVERSAL MULLION 36
11	1		FILL PANEL SIZE: 37.75inx27.50inx3.625in
12	2	14831	SNAP CAP 37.188
13	4	14831	SNAP CAP 79.75
14	1	15823	3.625 THRESHOLD - OUTSWING 37.188
15	4	02264	406 KP ADAPTOR 26.813
16	1		SCHLAGE KEYED ENTRY DOOR KNOB
17	1		SCHLAGE B60 SERIES SINGLE CYLINDER DEADBOLT
18	4		HINGE STAINLESS STEEL
19	2		HINGE SIDE DOOR SEAL BZ 79
20	2		HINGE SIDE DOOR SEAL BZ 35
21	4		CORNER SEAL JAMB FOAM BZ
22	2		L ANGLE 26.125
23	2		L ANGLE 67.688
24	2	34488	WEATHER STRIP HOLDER 78.00
25	1		WEATHER STRIP HOLDER 33.438
26	2		.29H X .187 BULB VINYL 78.00
27	1		.29H X .187 BULB VINYL 33.438
28	33		#6x1/2" TEK SCREW
29	30		#8 X 1/2" LG. TEK PHPS
30	12		#10x1/2" TEK SCREW
31	16		#10x1" TEK SCREW
32	4		#10x2" TEK SCREW



20400 HALL RD.
CLINTON TWP., MI 48038

PRODUCT	PART NUMBER:	REV.	SIZE:	DRAWN BY:	DATE:
	N/A		D	mfink	3/6/2025
DESCRIPTION			SCALE:	APPROVED BY:	DATE:
IMPACT DOOR HZ 36X80			NONE		
DEALER: N/A	FILE NAME:3.625 Impact Door.iam	© TEMO INC.		SHEET: 1 OF 2	



20400 HALL RD.
CLINTON TWP., MI 48038

PRODUCT	PART NUMBER: N/A	REV.	SIZE: D	DRAWN BY: mfink	DATE: 3/6/2025
DESCRIPTION IMPACT DOOR HZ 36X80			SCALE: NONE	APPROVED BY:	DATE:
DEALER:	FILE NAME:3.625 Impact Door.iam		© TEMO INC.		SHEET: 2 OF 2

DRN

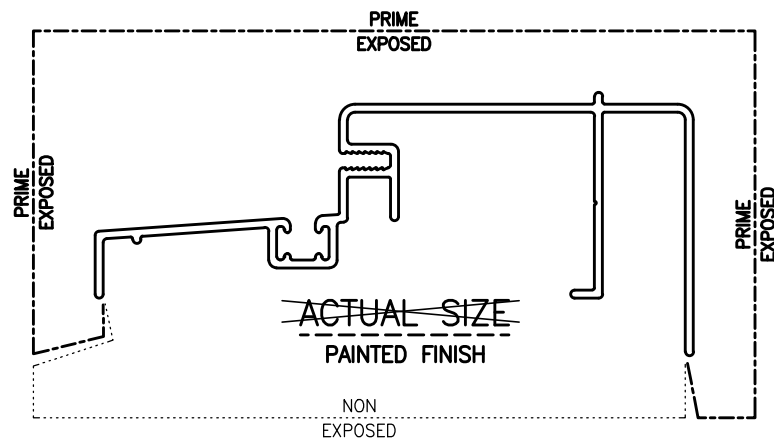
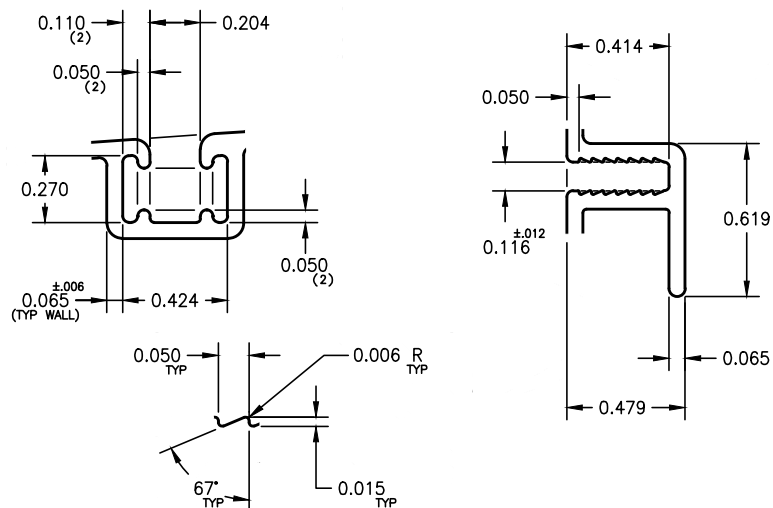
INITIAL RELEASE (DJH 08/05/06)

DWG. RELEASE NO.

This is not an Astro design. It is Astro's interpretation of the section designed and requested by its Customer. Customer should thoroughly check the drawing and test the design before using. AS ASTRO ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF GOODS OR PRODUCTS PRODUCED THEREFROM. ASTRO MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH REGARD TO EXTRUSIONS/ PRODUCTS PRODUCED PURSUANT TO THIS DRAWING. ASTRO'S ONLY WARRANTY SHALL BE AS STATED ON ASTRO'S SALES ACKNOWLEDGMENT FORM.

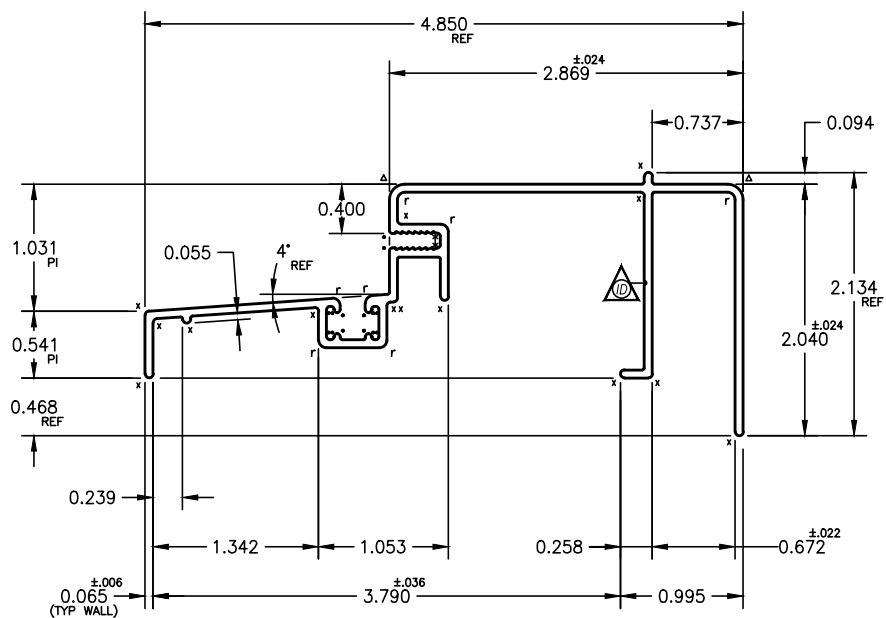
15823

ASTRO DIE NO.



- (*) INDICATES 0.020 R (2)
 (•) INDICATES 0.025 R (14)
 (x) INDICATES 0.032 R (14)
 (r) INDICATES 0.062 R (7)
 (Δ) INDICATES 0.127 R (2)

ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R

THERMAL CAVITY "A" (1.31 IN³)

EST. AREA:	0.794	SQ.IN.	EST. WT/FT:	0.952	LBS.	CLASS:	SOLID
EST. O.S.PER:	24.167	IN.	EST. TOT.PER:	24.167	IN.	EST. FIN.PER:	8.267 IN.
CIR. DIA:	5.08	IN.	FACTOR:	25		TYP. WALL:	0.065 ±.006

UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.

Δ ASTRO ID MARK: 0.010 R X 0.010 DP



ASTRO SHAPES LLC

Aluminum Extrusions

65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414

CUSTNO: 07800

CUST: TEMO INC., MI

DESCR: 3.625 THRESHOLD - OUTSWING

CUST P/N:

PRELIM#: AS-37917

SCALE: 1=1

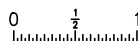
(DETAILS: N.T.S.)

DATE: 07/18/06

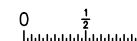
TITLE BLOCK: DR2000--0

Revision 3 05/20/21

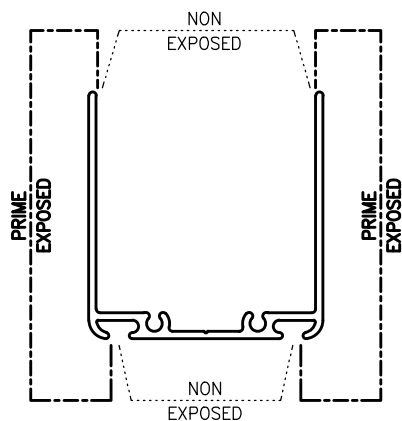
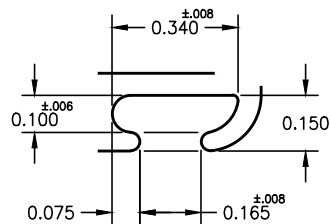
DO NOT SCALE



THIS IS A REDUCED PRINT

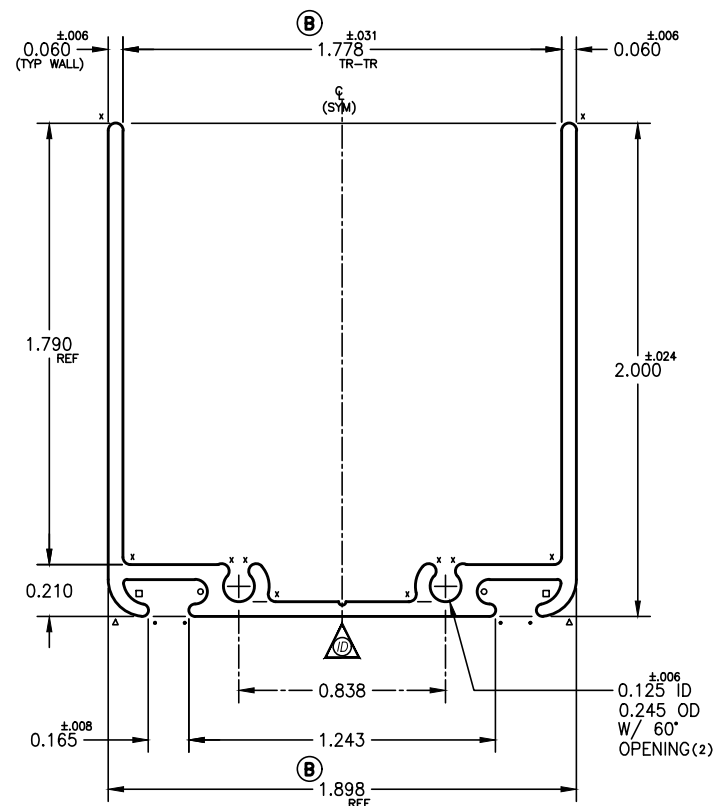


DO NOT SCALE



~~ACTUAL SIZE~~
PAINTED FINISH

- (•) INDICATES 0.025 R (4)
 (x) INDICATES 0.030 R (10)
 (o) INDICATES 0.050 R (2)
 (□) INDICATES 0.100 R (2)
 (Δ) INDICATES 0.150 R (2)
 ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R



EST. AREA:	0.403	SQ. IN.	EST. WT/FT:	0.484	LBS.	CLASS:	SOLID
EST. O.S. PER:	13.021	IN.	TOT. PER:	13.021	IN.	FIN. PER:	4.355
CIR. DIA:	2.68	IN.	FACTOR:	27		TYP. WALL:	0.060 ±.006
UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.							
ASTRO ID MARK: 0.010 R X 0.010 DP							

 ASTRO SHAPES LLC Aluminum Extrusions	
65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414	
CUSTNO: 07800	CUST: TEMO INC, MI
DESCR: DOOR SWEEP	
CUST P/N:	REV: A
PRELIM#: AS-23189	DATE: 02/19/03
SCALE: 2=1 (DETAILS: N.T.S.)	DR: MPD

DRN

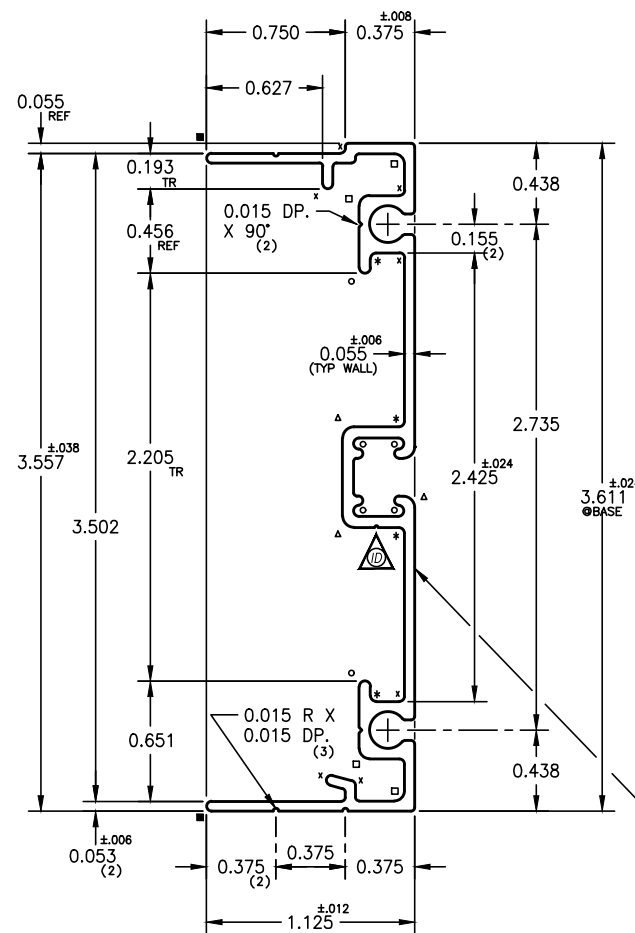
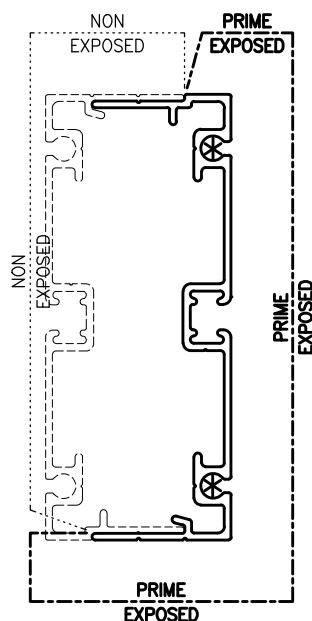
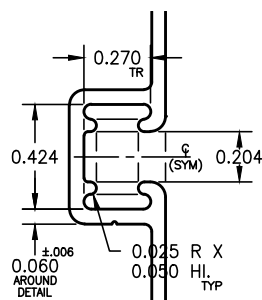
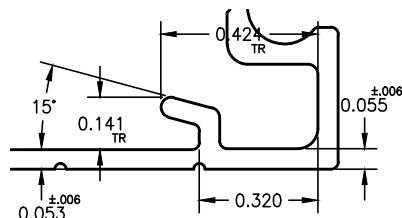
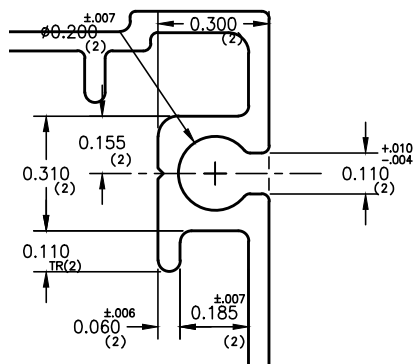
INITIAL RELEASE (LLL 07/28/22)

DWG. RELEASE NO.

This is not an Astro design. It is Astro's interpretation of the section designed and requested by its Customer. Customer should thoroughly check the drawing and test the design before using. AS ASTRO ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF GOODS OR PRODUCTS PRODUCED THEREFROM. ASTRO MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH REGARD TO EXTRUSIONS/PRODUCTS PRODUCED PURSUANT TO THIS DRAWING. ASTRO'S ONLY WARRANTY SHALL BE AS STATED ON ASTRO'S SALES ACKNOWLEDGMENT FORM.

32176

ASTRO DIE NO.



NOTE: FLATNESS ACROSS THIS SURFACE TO BE
FLAT OR SLIGHTLY CONCAVE, NOT TO EXCEED
+0.000 / -0.028 (— OR —)

- (■) INDICATES 0.026 R (2)
- (*) INDICATES 0.028 R (7)
- (○) INDICATES 0.030 R (6)
- (*) INDICATES 0.031 R (4)
- (□) INDICATES 0.055 R (4)
- (Δ) INDICATES 0.062 R (3)

ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.020 R *****

THERMAL CAVITY "A" (1.24 IN³)

EST. AREA:	0.487	SQ.IN.	EST. WT/FT:	0.585	LBS.	CLASS:	SOLID
EST. O.S.PER:	16.370	IN.	EST. TOT.PER:	16.370	IN.	EST. FIN.PER:	7.448 IN.
CIR. DIA:	3.77	IN.	FACTOR:	28		TYP. WALL:	0.055 ±.006

UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.

Δ ASTRO ID MARK: 0.010 R X 0.010 DP



ASTRO SHAPES LLC

Aluminum Extrusions

65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414

CUSTNO: 07800 CUST: TEMO INC., MI

DESCR: 406 UNIVERSAL

CUST P/N:

PRELIM#: AS-72231

SCALE: 1.5=1 (DETAILS: N.T.S.) DATE: 07/26/22

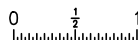
REV: ~

DR: LLL

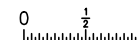
TITLE BLOCK: DR2000-0

Revision 3 05/20/21

DO NOT SCALE



THIS IS A REDUCED PRINT



DO NOT SCALE

DRN

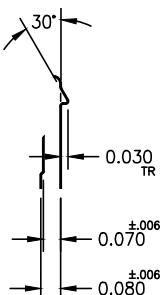
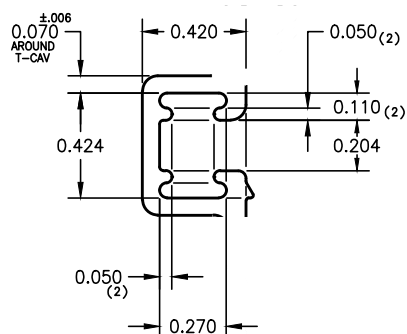
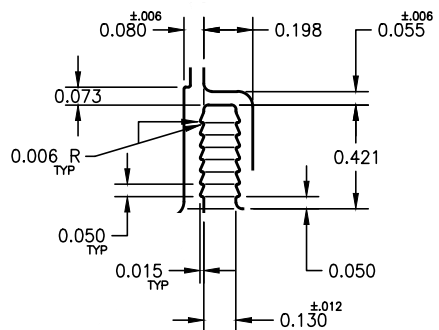
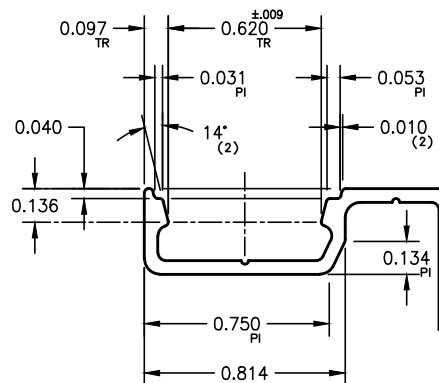
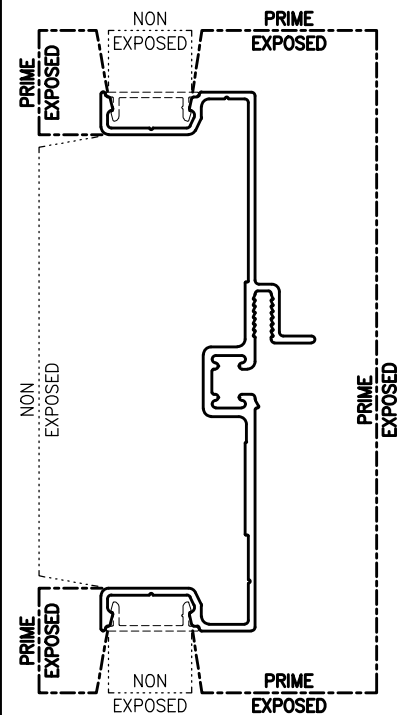
INITIAL RELEASE (KMM 07/22/05)

DWG. RELEASE NO.

This is not an Astro design. It is Astro's interpretation of the section designed and requested by its Customer. Customer should thoroughly check the drawing and test the design before using. AS ASTRO ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF GOODS OR PRODUCTS PRODUCED THEREFROM. ASTRO MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH REGARD TO EXTRUSIONS/PRODUCTS PRODUCED PURSUANT TO THIS DRAWING. ASTRO'S ONLY WARRANTY SHALL BE AS STATED ON ASTRO'S SALES ACKNOWLEDGMENT FORM.

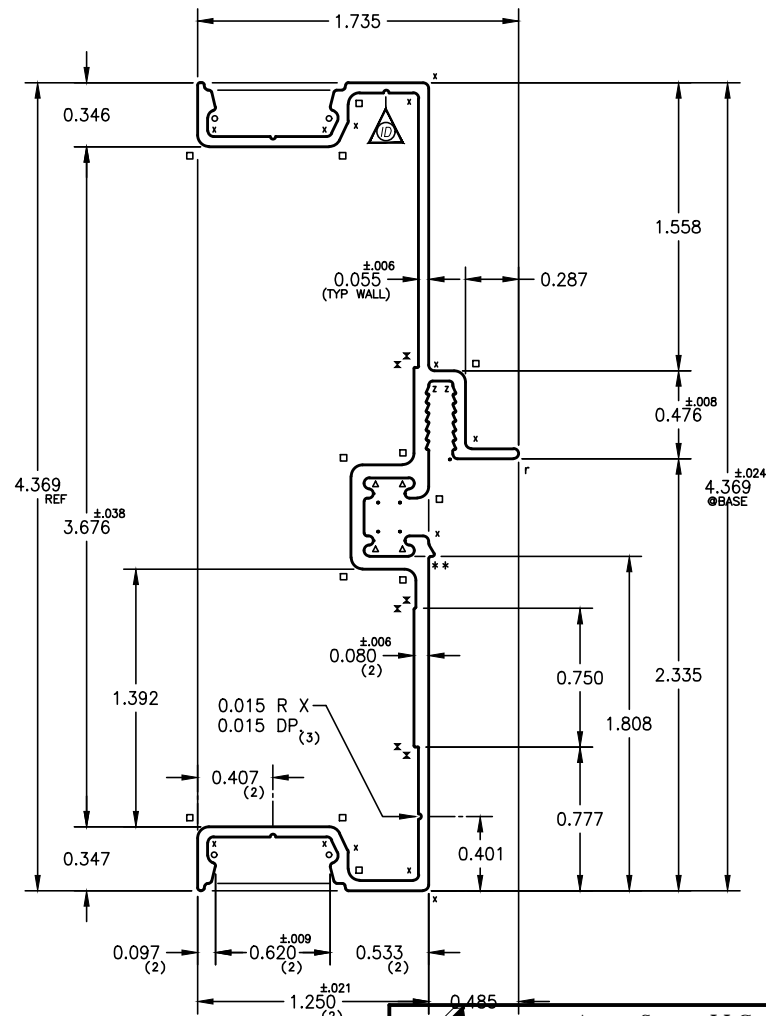
14673

ASTRO DIE NO.



- (x) INDICATES 0.006 R (6)
 (*) INDICATES 0.010 R (2)
 (z) INDICATES 0.020 R (2)
 (.) INDICATES 0.025 R (5)
 (r) INDICATES 0.027 R (1)
 (Δ) INDICATES 0.030 R (4)
 (x) INDICATES 0.031 R (13)
 (o) INDICATES 0.042 R (4)
 (□) INDICATES 0.062 R (12)

ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R

THERMAL CAVITY "A" (1.33 IN³)

EST. AREA:	0.611 SQ. IN.	EST. WT./FT:	0.733 LBS.	CLASS:	SEMI-HOLLOW
EST. O.S. PER:	19.565 IN.	EST. TOT. PER:	19.565 IN.	EST. FIN. PER:	6.468 IN.
CIR. DIA:	4.53 IN.	FACTOR:	27	TYP. WALL:	0.055 ±0.006

UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.

ASTRO ID MARK: 0.010 R X 0.010 DP



ASTRO SHAPES LLC

Aluminum Extrusions

65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414

CUSTNO: 07800 CUST: TEMO INC., MI

DESCR: 406 DOOR JAMB

CUST P/N:

PRELIM#: AS-32138

SCALE: 1.5=1 (DETAILS: N.T.S.)

REV:

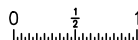
DR:DJH

DATE: 05/20/05

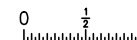
TITLE BLOCK: DR2000-0

Revision 3 05/20/21

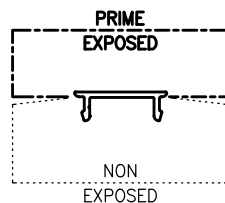
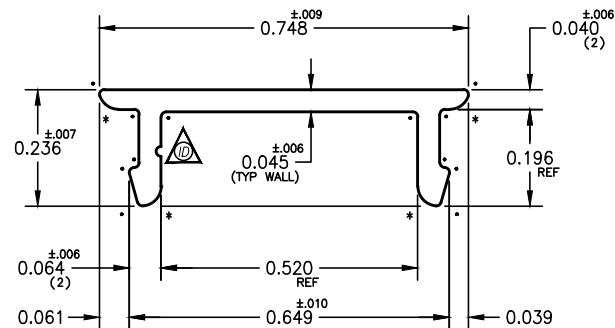
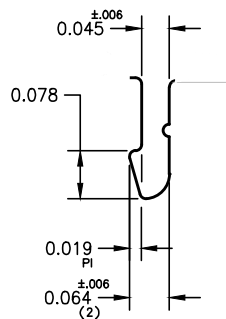
DO NOT SCALE



THIS IS A REDUCED PRINT



DO NOT SCALE



~~ACTUAL SIZE~~
PAINTED FINISH

(•) INDICATES 0.010 R (12)
(*) INDICATES 0.040 R (4)
ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R

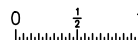
EST. AREA:	0.051	SQ. IN.	EST. WT/FT:	0.061	LBS.	CLASS:	SOLID	
EST. O.S.PER:	2.294	IN.	EST. TOT.PER:	2.294	IN.	EST. FIN.PER:	0.865	IN.
CIR. DIA:	0.75	IN.	FACTOR:	38		TYP. WALL:	0.045	±0.006
UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.								
⚠ ASTRO ID MARK: 0.010 R X 0.010 DP								

 ASTRO SHAPES LLC Aluminum Extrusions		65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414	
		CUSTNO: 07800	CUST: TEMO INC., MI
DESCR: SNAP CAP			
CUST P/N: A44690		REV:	DR:DJH
PRELIM#: AS-32813	SCALE: 4=1 (DETAILS: N.T.S.)	DATE: 09/13/05	

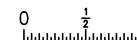
TITLE BLOCK: DR2000-0

Revision 3 05/20/21

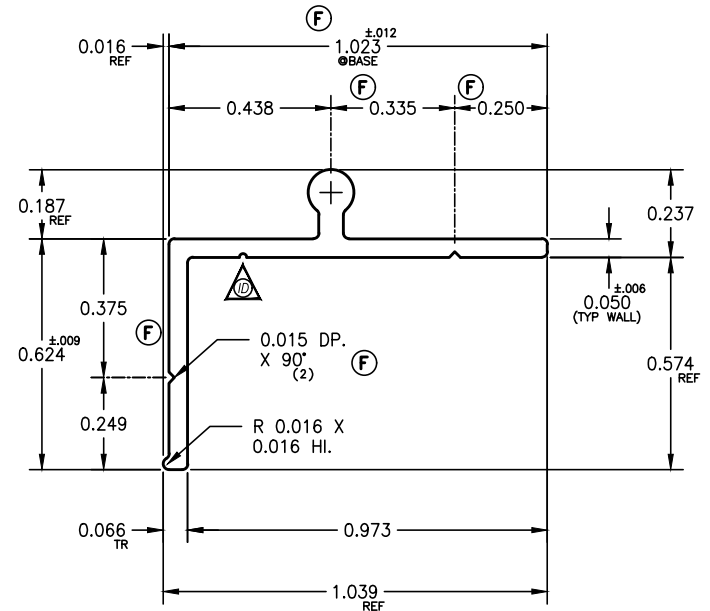
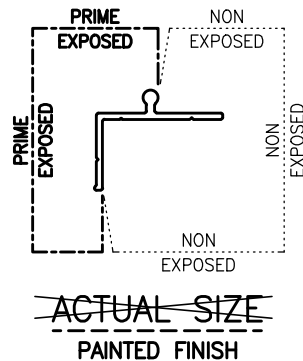
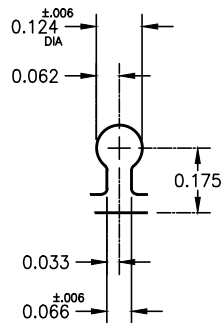
DO NOT SCALE



THIS IS A REDUCED PRINT



DO NOT SCALE



ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R

TITLE BLOCK: DR2000-0 Revision 3 05/20/21

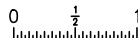
EST. AREA:	0.096	SQ. IN.	EST. WT/FT:	0.115	LBS.	CLASS:	SOLID	
EST. O.S.PER:	3.696	IN.	EST. TOT.PER:	3.696	IN.	EST. FIN.PER:	1.292	IN.
CIR. DIA:	1.20	IN.	FACTOR:	32		TYP. WALL:	0.050	±.006
UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.								
ASTRO ID MARK: 0.010 R X 0.010 DP								

ASTRO SHAPES LLC
Aluminum Extrusions

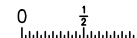
65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414

CUSTNO: 07800		CUST: TEMO INC., MI	
DESCR: 406 ADAPTER -- V02			
CUST P/N:		REV:	DR: TAM
PRELIM#: AS-00181	SCALE: 3=1 (DETAILS: N.T.S.)	DATE: 08/18/93	

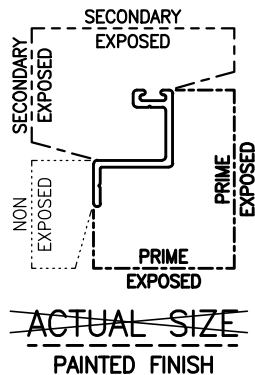
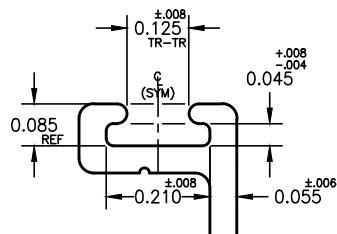
DO NOT SCALE



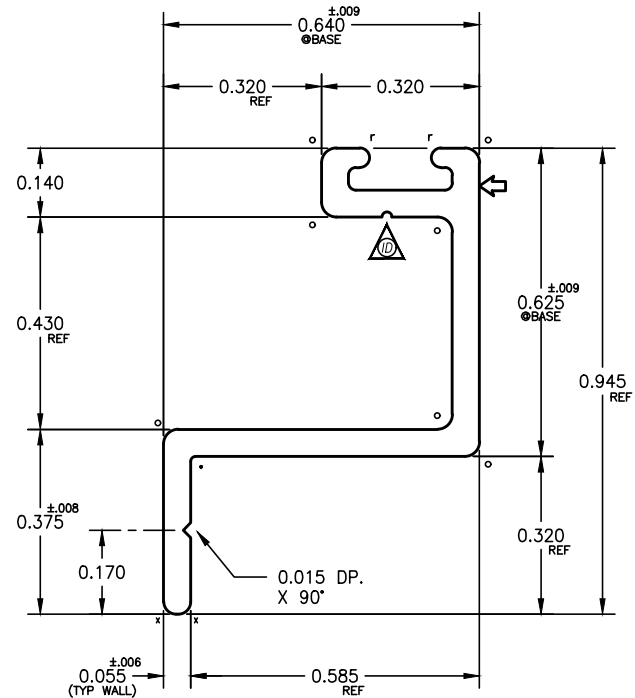
THIS IS A REDUCED PRINT



DO NOT SCALE



(.) INDICATES 0.010 R (1)
(r) INDICATES 0.020 R (2)
(*) INDICATES 0.025 R (2)
(o) INDICATES 0.030 R (7)
ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R



NOTE – DUE TO PROFILE DESIGN, ARROW ($\Rightarrow$) INDICATES SURFACES LIKELY TO HAVE BEARING MARKS & STREAKS

EST. AREA:	0.105 SQ.IN.	EST. WT./FT:	0.127 LBS.	CLASS:	SOLID
EST. O.S.PER:	3.888 IN.	EST. TOT.PER:	3.888 IN.	EST. FIN.PER:	3.708 IN.
CIR. DIA:	1.12 IN.	FACTOR:	31	TYP. WALL:	0.055 ± 0.006
UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.					
⚠ ASTRO ID MARK: 0.010 R X 0.010 DP					

ASTRO SHAPES LLC
Aluminum Extrusions

65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414

CUSTNO: 07800	CUST: TEMO INC., MI	DESCR: WEATHER STRIP HOLDER	CUST P/N:	REV: ~	DR: LLL
PRELIM#: AS-76548	SCALE: 4=1 (DETAILS: N.T.S.)	DATE: 02/13/25			

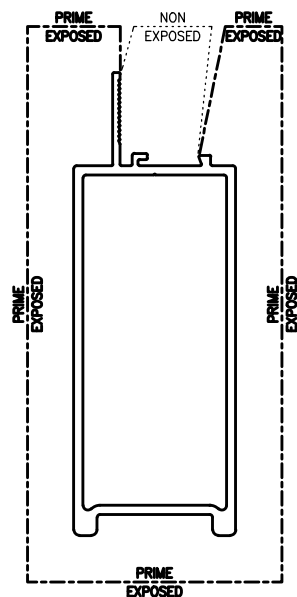
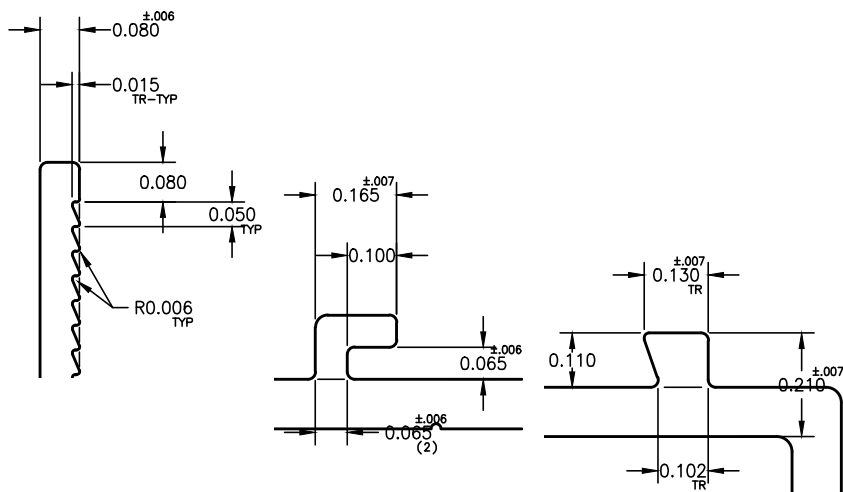
INITIAL RELEASE (LLL 11/26/24)

DWG. RELEASE NO.

This is not an Astro design. It is Astro's interpretation of the section designed and requested by its Customer. Customer should thoroughly check the drawing and test the design before using. AS ASTRO ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF GOODS OR PRODUCTS PRODUCED THEREFROM. ASTRO MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH REGARD TO EXTRUSIONS/ PRODUCTS PRODUCED PURSUANT TO THIS DRAWING. ASTRO'S ONLY WARRANTY SHALL BE AS STATED ON ASTRO'S SALES ACKNOWLEDGMENT FORM.

34294

ASTRO	DIE	NO.
-------	-----	-----

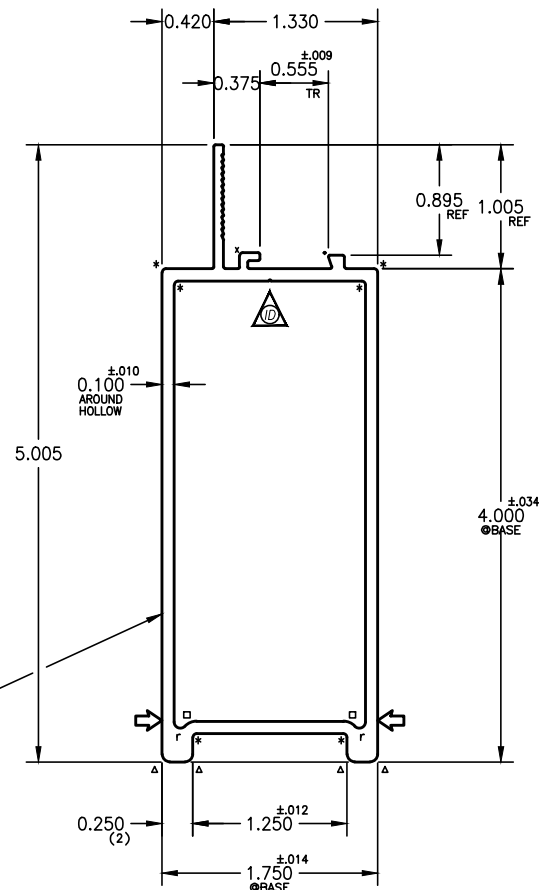


~~3/4 SCALE~~
PAINTED FINISH

(•)	INDICATES	0.010	R (1)
(x)	INDICATES	0.025	R (1)
(r)	INDICATES	0.050	R (2)
(*)	INDICATES	0.031	R (6)
(Δ)	INDICATES	0.062	R (4)
(□)	INDICATES	0.131	R (2)

ALL UNSPECIFIED CORNERS & FILLETS TO BE 0.015 R

NOTE: FLATNESS ACROSS THIS SURFACE NOT TO EXCEED ± 0.023 ()



NOTE - DUE TO PROFILE DESIGN, ARROW (⇒) INDICATES SURFACES
LIKELY TO HAVE BEARING MARKS & STREAKS

EST. AREA:	1.268	SQ. IN.	EST. WT./FT.:	1.522	LBS.	CLASS:	HOLLOW
EST. O.S. PER:	14.610	IN.	EST. TYP. PER:	24.935	IN.	EST. FIN. PER:	12.057 IN.
CIR. DIA:	5.18	IN.	FACTOR:	16		TYP. WALL:	A/S
UNLESS SPECIFIED, STANDARD COMMERCIAL TOLERANCES FOR EXTRUDED ALUMINUM ARE USED.							
 ASTRO ID MARK: 0.010 R X 0.010 DP							



ASTRO SHAPES LLC

Aluminum Extrusions

65 MAIN ST. • STRUTHERS, OH • USA • (330)755-1414

CUSTNO: 07800	CUST: TEMO INC., MI
---------------	---------------------

DESCR:	DOOR FRAME HZ
--------	---------------

CUST P/N:

PRELIM#: AS-76201

SCALE: 1=1 (DETAILS: N.T.S.) DATE: 11/25/24

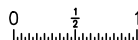
REV:~	DR:LLL
-------	--------

DATE: 11/25/24

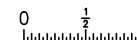
TITLE BLOCK: DR2000-0

Revision 3 05/20/21

DO NOT SCALE



THIS IS A REDUCED PRINT



DO NOT SCALE



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR TEMO, INC.

Report No.: S1913.01-120-32 R0

Date: 05/19/25

SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/19/25	N/A	Original Report Issue