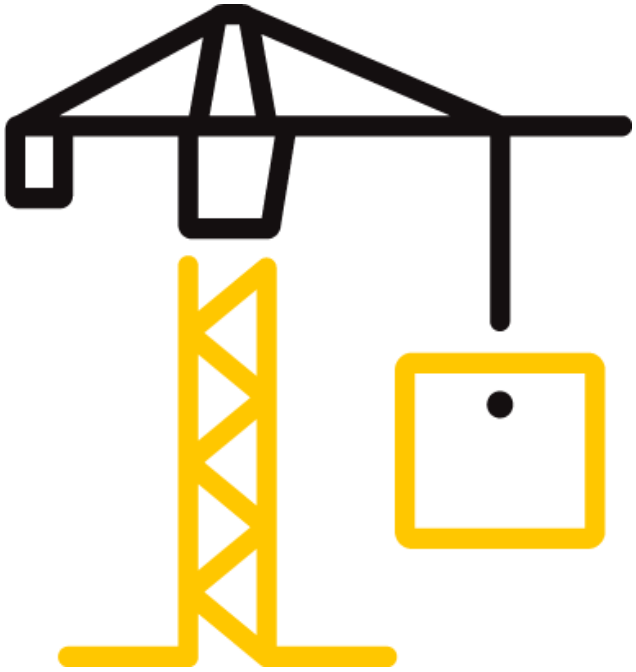
GAMCO CORPORATION COMPUTER SIMULATION REPORT

SCOPE OF WORK
TD350 DOOR W/ FG451IS FRAME DOUBLE DOOR - 1-3/8" IG (WITH FOAM) - AAMA 507

REPORT NUMBER
Q0192.01-116-45 R0

TEST DATE
10/18/23

ISSUE DATE
10/18/23



PAGES
22

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TEST REPORT FOR GAMCO CORPORATION
Report No.: Q0192.01-116-45 R0
Date: 10/18/23

REPORT ISSUED TO
GAMCO CORPORATION
131-10 Maple Avenue
Flushing, New York 11355

SECTION 1
SUMMARY

SERIES/MODEL: TD350 Door w/ FG451IS Frame Double Door - 1-3/8" IG (With Foam)

Architectural Testing, Inc. (an Intertek company), dba Intertek Building & Construction (Intertek B&C) was contracted to perform AAMA 507 computer simulations utilizing thermal thermal modeling computer software developed by Lawrence Berkeley National Laboratory Laboratory (LBNL). Results obtained are simulated values and were secured using the designated test methods.

Intertek B&C is an NFRC accredited simulation laboratory and all simulations were conducted in full compliance with NFRC approved procedures and specifications.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. The record retention end date of this report is 10/18/28.

For INTERTEK B&C:

COMPLETED BY:	Allison M. Ford	**REVIEWED BY:**	Eric S. Leitner
TITLE:	Technician Team Leader	**TITLE:**	Manager - Thermal Testing & Simulations
SIGNATURE:	Allison M. Ford Digitally Signed by: Allison Ford	**SIGNATURE:**	Eric S. Leitner Digitally Signed by: Eric S. Leitner
DATE:	10/18/23	**DATE:**	10/18/23

AMF:amf

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SECTION 2
TEST METHODS

The products were evaluated in accordance with the following:

AAMA 507-15, *Standard Practice for Determining the Thermal Performance Characteristics of Fenestration Systems Installed in Commercial Buildings*

ANSI/NFRC 100-2023, *Procedure for Determining Fenestration Product U-Factors*

ANSI/NFRC 200-2023, *Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence*

SECTION 3
TEST PROCEDURE

The total product, including specific frame, spacer, and glass details, was modeled using NFRC approved software.

FRAME AND EDGE MODELING	THERM 7.8.71
CENTER-OF-GLASS MODELING	WINDOW 7.8.71
TOTAL PRODUCT CALCULATIONS	WINDOW 7.8.71
SPECTRAL DATA LIBRARY	IGDB 93.0

Modeling Assumptions / Technical Interpretations

Any modeling assumptions and technical interpretations required to model this product are listed below.

1) To prevent air infiltration, tape was applied to all interior sash crack locations.
2) This product is available in either a painted or anodized finish. These two finish types may be grouped in accordance with ANSI/NFRC 100-2017, Section 4.2.1.L. The painted finish was simulated since it is the worst case (highest emissivity).
3) Non-continuous hardware was not modeled.

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SECTION 4
SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	TD350 Door w/ FG451IS Frame Double Door - 1-3/8" IG (With Foam)
PRODUCT TYPE	Swinging Door - Double
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
SASH MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members

GLAZING OPTIONS					
	OUTER PANE	***MIDDLE PANE***	***INNER PANE***	***GAP SIZES***	***IG OVERALL***
GL1	1/4"	N/A	1/4"	0.500"	1"
GL2	1/4"	Heat Mirror	1/4"	0.250"	1"

GL1: Dual glazed IG unit (COG=0.48 - COG=0.20)
GL2: Dual glazed IG unit w/ heat mirror (COG=0.18 - COG=0.10)

SPACER OPTIONS			
TYPE	***PRIMARY SEAL***	***SECONDARY SEAL***	***CODE***
Generic Aluminum Dual Seal Spacer	Butyl Rubber	Butyl Rubber	A1-D

SECTION 5
MEASURED SIMULATION DATA

U-FACTOR CALCULATIONS	
Exterior Air Temperature	-0.4°F
Exterior Wind Velocity	12.3 mph (Perpendicular Flow)
Interior Air Temperature	69.8°F

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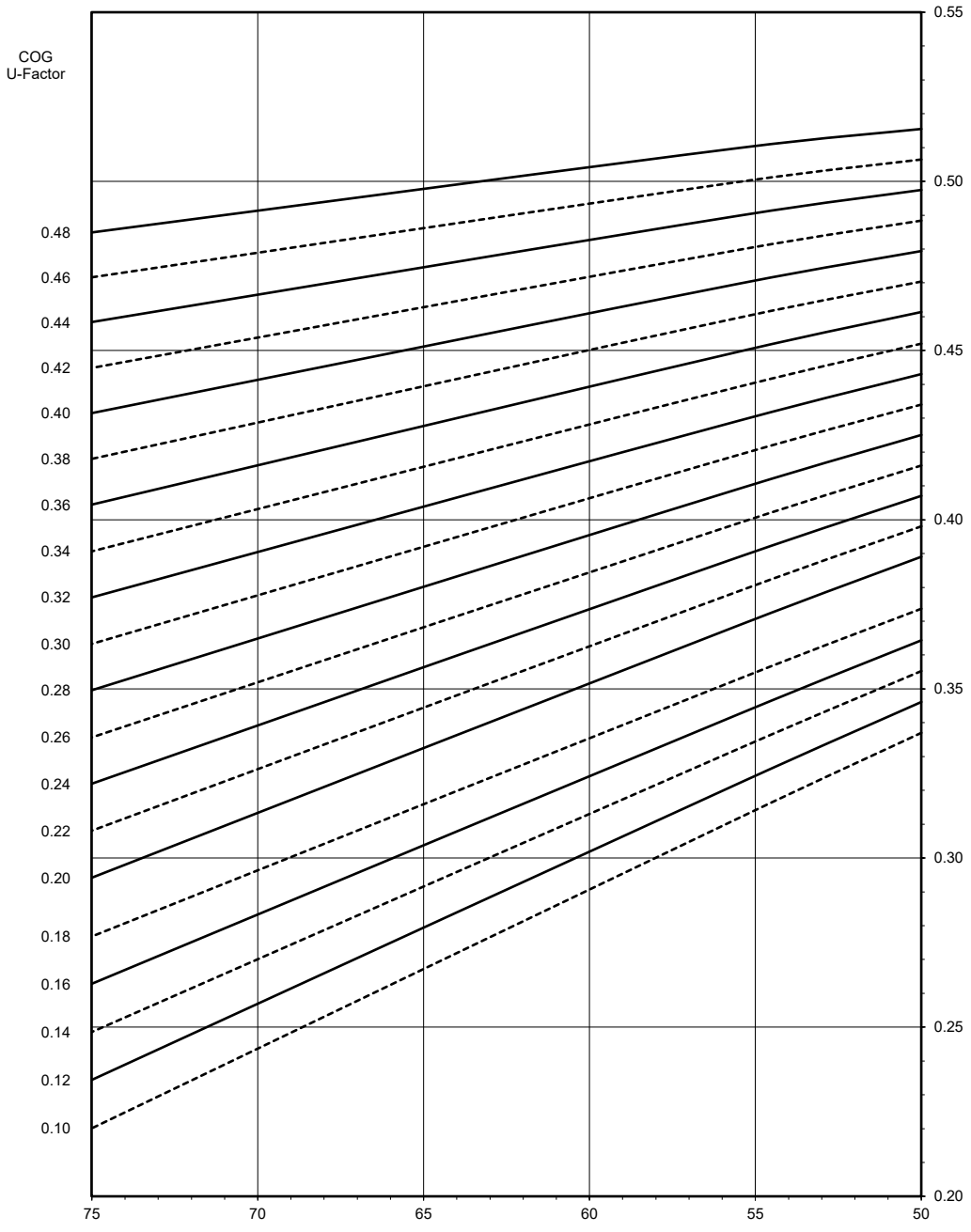
SECTION 6
SIMULATION RESULTS

U-FACTOR CALCULATIONS: System U-Factor vs. Percentage of Vision Area



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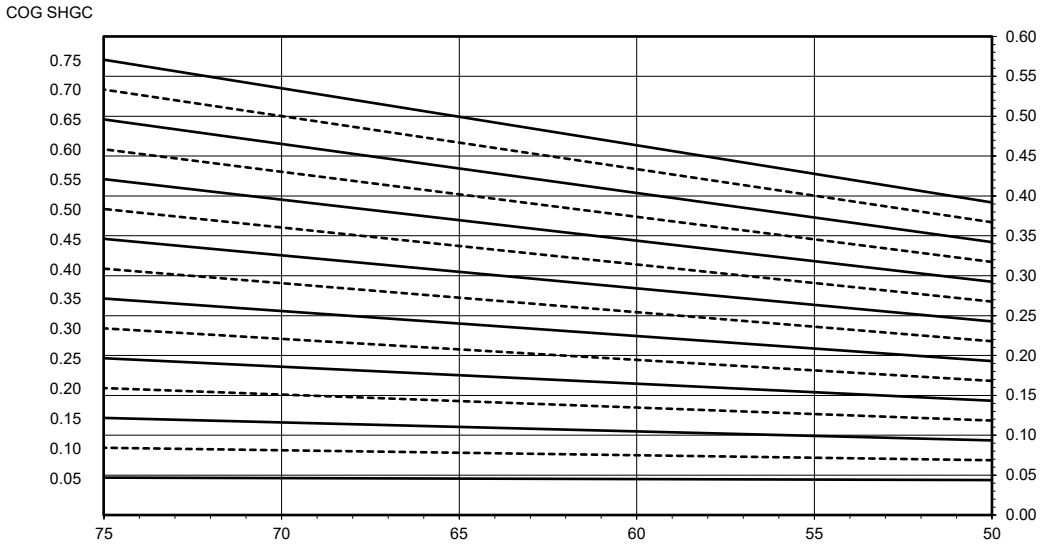
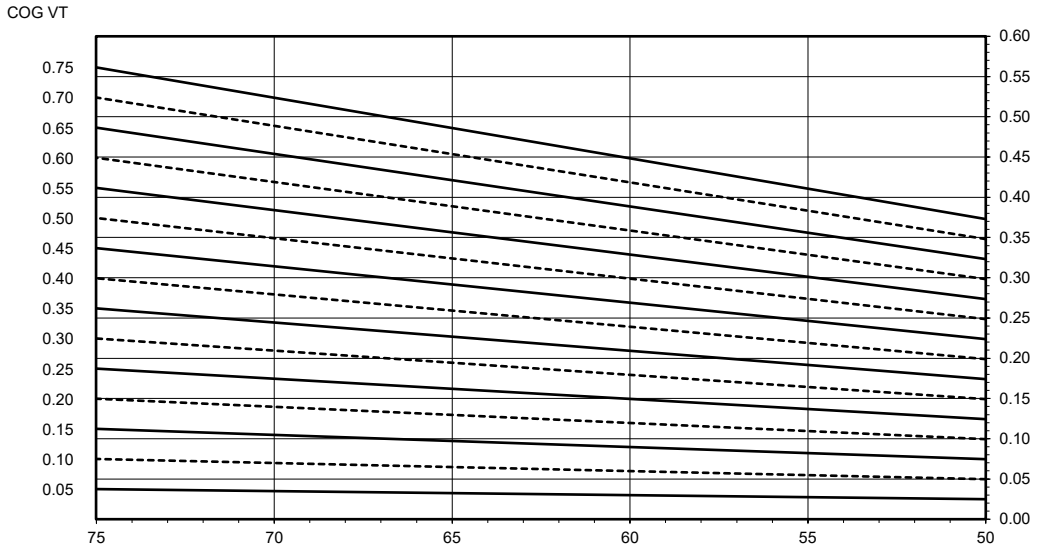
SIMULATION RESULTS

SHGC CALCULATIONS: System SHGC vs. Percentage of Vision Area



VT CALCULATIONS: System VT vs. Percentage of Vision Area



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SECTION 6
SIMULATION RESULTS

U-FACTOR CALCULATIONS (TD350 Door w/ FG451IS Frame Double Door - 1-3/8" IG (With Foam))		
Size Specific U-Factor Matrix*		
Glazing Option	Center-of-Glass U-Factor	Overall U-Factor
1	0.48	0.51
2	0.46	0.50
3	0.44	0.49
4	0.42	0.48
5	0.40	0.47
6	0.38	0.46
7	0.36	0.45
8	0.34	0.44
9	0.32	0.43
10	0.30	0.42
11	0.28	0.41
12	0.26	0.40
13	0.24	0.39
14	0.22	0.38
15	0.20	0.37
16	0.18	0.35
17	0.16	0.34
18	0.14	0.33
19	0.12	0.32
20	0.10	0.31

*The size specific U-Factor matrix is based on the Swinging Door - Double NFRC specimen size of 1920mm x 2090mm (75.50 in x 82.375 in). This represents 55.5% Vision Area / Total Area.

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SECTION 6
SIMULATION RESULTS

SHGC/VT CALCULATIONS (TD350 Door w/ FG451IS Frame Double Door - 1-3/8" IG (With Foam))			
Size Specific SHGC Matrix*		Size Specific VT Matrix*	
Center-of-Glass SHGC	Overall SHGC	Center-of-Glass VT	Overall VT
0.75	0.43	0.75	0.41
0.70	0.40	0.70	0.39
0.65	0.38	0.65	0.36
0.60	0.35	0.60	0.33
0.55	0.32	0.55	0.30
0.50	0.29	0.50	0.28
0.45	0.27	0.45	0.25
0.40	0.24	0.40	0.22
0.35	0.21	0.35	0.19
0.30	0.18	0.30	0.17
0.25	0.16	0.25	0.14
0.20	0.13	0.20	0.11
0.15	0.10	0.15	0.08
0.10	0.07	0.10	0.06
0.05	0.04	0.05	0.03

*The size specific SHGC and VT matrices are based on the Swinging Door - Double NFRC specimen size of 1920mm x 2090mm (75.50 in x 82.375 in). This represents 55.5% Vision Area / Total Area.

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (TD350 Door w/ FG451IS Frame Double Door - 1-3/8" IG (With Foam))									
Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							50.00% Vision Area	ANSI/NFRC 100-2023	75.00% Vision Area
1	0.48	43.7°F	Ext. Head	6.6681	0.6343	0.5609	0.5155	0.5099	0.4849
			Int. Head	6.6681	0.6343	0.5609			
			Ext. Jamb	6.6674	0.5620	0.5493			
			Int. Jamb	6.6674	0.5620	0.5493			
			Mtg. Rail	8.7124	0.5284	0.5509			
			Ext. Sill	######	0.4556	0.5416			
			Int. Sill	######	0.4556	0.5416			
2	0.46	44.8°F	Ext. Head	6.6681	0.6338	0.5475	0.5065	0.4998	0.4717
			Int. Head	6.6681	0.6338	0.5475			
			Ext. Jamb	6.6674	0.5612	0.5358			
			Int. Jamb	6.6674	0.5612	0.5358			
			Mtg. Rail	8.7124	0.5272	0.5373			
			Ext. Sill	######	0.4551	0.5279			
			Int. Sill	######	0.4551	0.5279			
3	0.44	45.8°F	Ext. Head	6.6681	0.6332	0.5343	0.4975	0.4898	0.4584
			Int. Head	6.6681	0.6332	0.5343			
			Ext. Jamb	6.6674	0.5605	0.5224			
			Int. Jamb	6.6674	0.5605	0.5224			
			Mtg. Rail	8.7124	0.5260	0.5239			
			Ext. Sill	######	0.4545	0.5144			
			Int. Sill	######	0.4545	0.5144			
4	0.42	46.8°F	Ext. Head	6.6681	0.6327	0.5211	0.4884	0.4797	0.4449
			Int. Head	6.6681	0.6327	0.5211			
			Ext. Jamb	6.6674	0.5597	0.5091			
			Int. Jamb	6.6674	0.5597	0.5091			
			Mtg. Rail	8.7124	0.5248	0.5105			
			Ext. Sill	######	0.4540	0.5010			
			Int. Sill	######	0.4540	0.5010			

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TOTAL PRODUCT CALCULATIONS (TD350 Door w/ FG451IS Frame Double Door - 1-3/8" IG (With Foam))									
Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							50.00% Vision Area	ANSI/NFRC 100-2023	75.00% Vision Area
5	0.40	47.9°F	Ext. Head	6.6681	0.6322	0.5080	0.4794	0.4697	0.4315
			Int. Head	6.6681	0.6322	0.5080			
			Ext. Jamb	6.6674	0.5590	0.4958			
			Int. Jamb	6.6674	0.5590	0.4958			
			Mtg. Rail	8.7124	0.5237	0.4973			
			Ext. Sill	######	0.4535	0.4877			
			Int. Sill	######	0.4535	0.4877			
6	0.38	48.9°F	Ext. Head	6.6681	0.6317	0.4950	0.4704	0.4597	0.4180
			Int. Head	6.6681	0.6317	0.4950			
			Ext. Jamb	6.6674	0.5583	0.4827			
			Int. Jamb	6.6674	0.5583	0.4827			
			Mtg. Rail	8.7124	0.5226	0.4841			
			Ext. Sill	######	0.4531	0.4745			
			Int. Sill	######	0.4531	0.4745			
7	0.36	50.0°F	Ext. Head	6.6681	0.6311	0.4821	0.4614	0.4496	0.4045
			Int. Head	6.6681	0.6311	0.4821			
			Ext. Jamb	6.6674	0.5576	0.4697			
			Int. Jamb	6.6674	0.5576	0.4697			
			Mtg. Rail	8.7124	0.5214	0.4711			
			Ext. Sill	######	0.4526	0.4614			
			Int. Sill	######	0.4526	0.4614			
8	0.34	51.0°F	Ext. Head	6.6681	0.6307	0.4692	0.4520	0.4393	0.3907
			Int. Head	6.6681	0.6307	0.4692			
			Ext. Jamb	6.6674	0.5569	0.4567			
			Int. Jamb	6.6674	0.5569	0.4567			
			Mtg. Rail	8.7124	0.5173	0.4573			
			Ext. Sill	######	0.4521	0.4484			
			Int. Sill	######	0.4521	0.4484			

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Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							50.00% Vision Area	ANSI/NFRC 100-2023	75.00% Vision Area
9	0.32	52.0°F	Ext. Head	6.6681	0.6302	0.4565	0.4430	0.4292	0.3770
			Int. Head	6.6681	0.6302	0.4565			
			Ext. Jamb	6.6674	0.5563	0.4439			
			Int. Jamb	6.6674	0.5563	0.4439			
			Mtg. Rail	8.7124	0.5163	0.4443			
			Ext. Sill	######	0.4516	0.4354			
			Int. Sill	######	0.4516	0.4354			
10	0.30	53.1°F	Ext. Head	6.6681	0.6297	0.4438	0.4340	0.4191	0.3633
			Int. Head	6.6681	0.6297	0.4438			
			Ext. Jamb	6.6674	0.5556	0.4311			
			Int. Jamb	6.6674	0.5556	0.4311			
			Mtg. Rail	8.7124	0.5152	0.4315			
			Ext. Sill	######	0.4512	0.4225			
			Int. Sill	######	0.4512	0.4225			
11	0.28	54.2°F	Ext. Head	6.6681	0.6292	0.4311	0.4251	0.4091	0.3496
			Int. Head	6.6681	0.6292	0.4311			
			Ext. Jamb	6.6674	0.5550	0.4184			
			Int. Jamb	6.6674	0.5550	0.4184			
			Mtg. Rail	8.7124	0.5142	0.4187			
			Ext. Sill	######	0.4507	0.4097			
			Int. Sill	######	0.4507	0.4097			
12	0.26	55.2°F	Ext. Head	6.6681	0.6288	0.4185	0.4160	0.3990	0.3357
			Int. Head	6.6681	0.6288	0.4185			
			Ext. Jamb	6.6674	0.5544	0.4057			
			Int. Jamb	6.6674	0.5544	0.4057			
			Mtg. Rail	8.7124	0.5132	0.4060			
			Ext. Sill	######	0.4503	0.3970			
			Int. Sill	######	0.4503	0.3970			

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Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							50.00% Vision Area	ANSI/NFRC 100-2023	75.00% Vision Area
13	0.24	56.3°F	Ext. Head	6.6681	0.6283	0.4060	0.4071	0.3889	0.3220
			Int. Head	6.6681	0.6283	0.4060			
			Ext. Jamb	6.6674	0.5538	0.3930			
			Int. Jamb	6.6674	0.5538	0.3930			
			Mtg. Rail	8.7124	0.5122	0.3933			
			Ext. Sill	######	0.4499	0.3843			
			Int. Sill	######	0.4499	0.3843			
14	0.22	57.3°F	Ext. Head	6.6681	0.6279	0.3932	0.3980	0.3788	0.3081
			Int. Head	6.6681	0.6279	0.3932			
			Ext. Jamb	6.6674	0.5532	0.3802			
			Int. Jamb	6.6674	0.5532	0.3802			
			Mtg. Rail	8.7124	0.5112	0.3804			
			Ext. Sill	######	0.4495	0.3714			
			Int. Sill	######	0.4495	0.3714			
15	0.20	58.4°F	Ext. Head	6.6681	0.6275	0.3807	0.3891	0.3687	0.2942
			Int. Head	6.6681	0.6275	0.3807			
			Ext. Jamb	6.6674	0.5526	0.3677			
			Int. Jamb	6.6674	0.5526	0.3677			
			Mtg. Rail	8.7124	0.5103	0.3678			
			Ext. Sill	######	0.4491	0.3588			
			Int. Sill	######	0.4491	0.3588			
16	0.18	59.5°F	Ext. Head	6.6681	0.6208	0.3579	0.3737	0.3529	0.2768
			Int. Head	6.6681	0.6208	0.3579			
			Ext. Jamb	6.6674	0.5422	0.3429			
			Int. Jamb	6.6674	0.5422	0.3429			
			Mtg. Rail	8.7124	0.4947	0.3429			
			Ext. Sill	######	0.4427	0.3336			
			Int. Sill	######	0.4427	0.3336			

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Option Number	COG U-Factor	COG Temperature	Cross Section	Frame Height	Frame U-Factor	Edge U-Factor	Total Product U-Factor		
							50.00% Vision Area	ANSI/NFRC 100-2023	75.00% Vision Area
17	0.16	60.6°F	Ext. Head	6.6681	0.6206	0.3422	0.3643	0.3425	0.2629
			Int. Head	6.6681	0.6206	0.3422			
			Ext. Jamb	6.6674	0.5419	0.3269			
			Int. Jamb	6.6674	0.5419	0.3269			
			Mtg. Rail	8.7124	0.4941	0.3269			
			Ext. Sill	######	0.4425	0.3178			
			Int. Sill	######	0.4425	0.3178			
18	0.14	61.6°F	Ext. Head	6.6681	0.6201	0.3298	0.3553	0.3323	0.2486
			Int. Head	6.6681	0.6201	0.3298			
			Ext. Jamb	6.6674	0.5412	0.3146			
			Int. Jamb	6.6674	0.5412	0.3146			
			Mtg. Rail	8.7124	0.4930	0.3145			
			Ext. Sill	######	0.4420	0.3054			
			Int. Sill	######	0.4420	0.3054			
19	0.12	62.7°F	Ext. Head	6.6681	0.6198	0.3163	0.3461	0.3220	0.2344
			Int. Head	6.6681	0.6198	0.3163			
			Ext. Jamb	6.6674	0.5407	0.3009			
			Int. Jamb	6.6674	0.5407	0.3009			
			Mtg. Rail	8.7124	0.4922	0.3008			
			Ext. Sill	######	0.4417	0.2918			
			Int. Sill	######	0.4417	0.2918			
20	0.10	63.9°F	Ext. Head	6.6681	0.6194	0.3034	0.3370	0.3117	0.2201
			Int. Head	6.6681	0.6194	0.3034			
			Ext. Jamb	6.6674	0.5402	0.2880			
			Int. Jamb	6.6674	0.5402	0.2880			
			Mtg. Rail	8.7124	0.4913	0.2878			
			Ext. Sill	######	0.4413	0.2788			
			Int. Sill	######	0.4413	0.2788			

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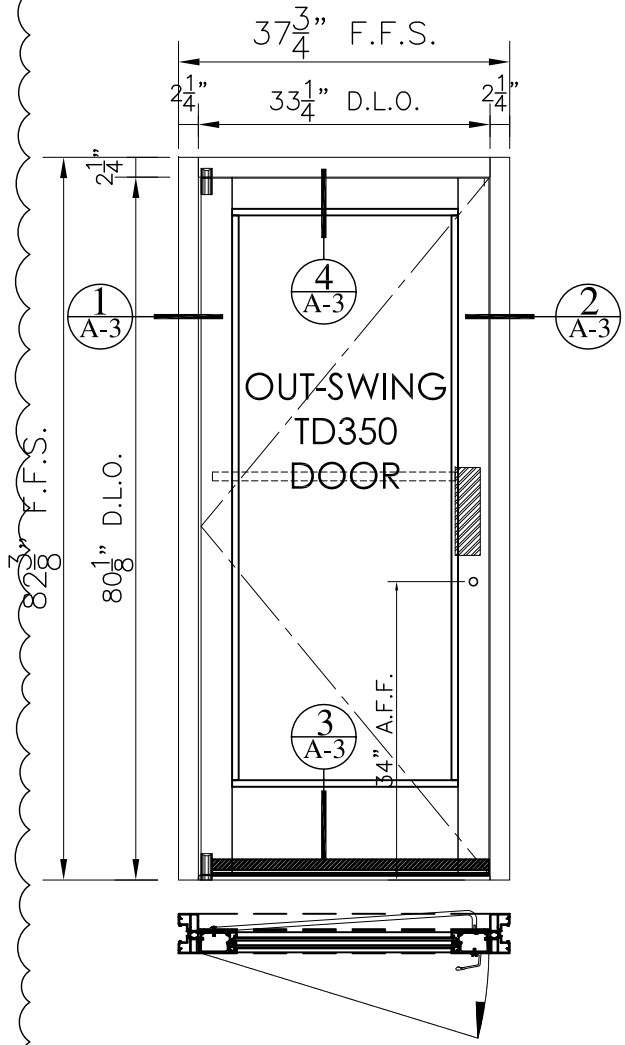
SECTION 7
DRAWINGS / BILL OF MATERIALS

The drawings which follow have been reviewed by Intertek B&C and are representative of the simulation result(s) reported herein. Any deviations are documented herein or on the drawings.

THERMAL UNITS

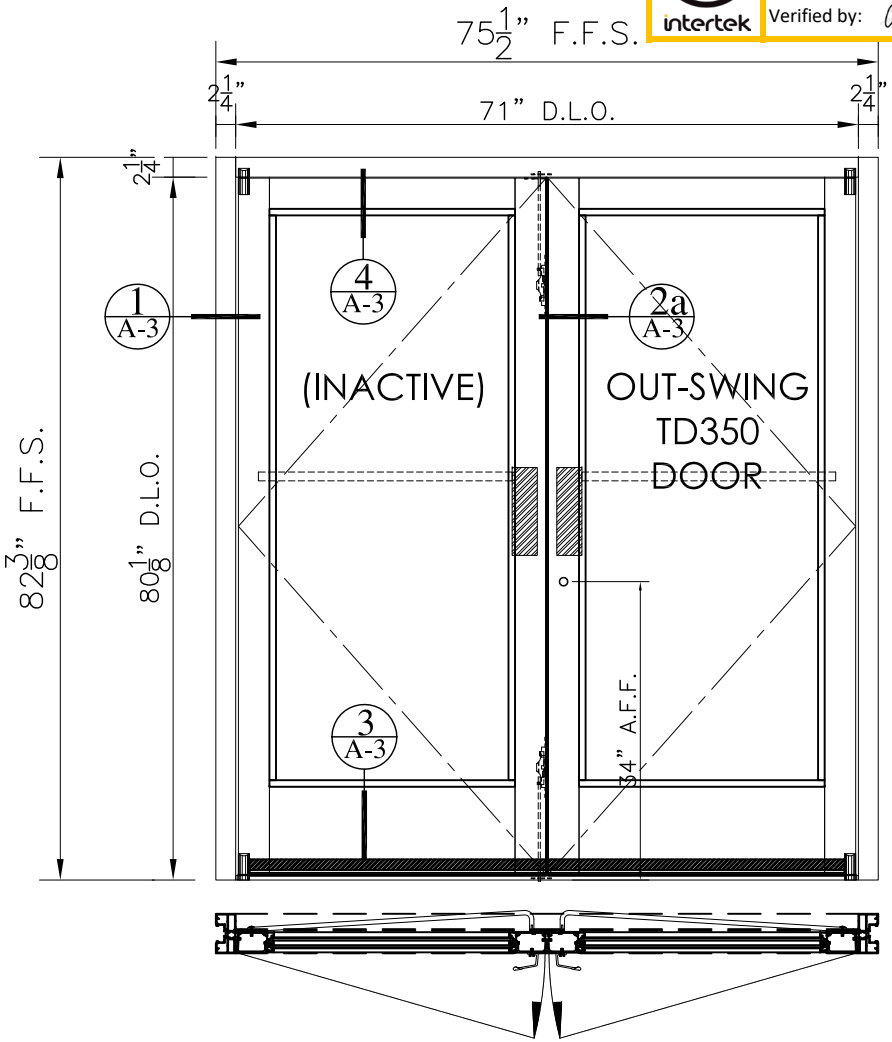
intertek
Report #: Q0192-116-45
Date: 10/18/23
Verified by: Allison M Ford



PLAN

QTY: 1 UNIT W/ 1-3/8" I.G.

1-3/8" GLASS SIZE: 25-9/16" X 65-3/8" - 1 PCS



PLAN

QTY: 1 UNIT W/ 1-3/8" I.G.

1-3/8" GLASS SIZE: 27-13/16" X 65-3/8" - 2 PCS

ALUMINUM STOREFRONT ELEVATIONS

* NOTE: ALL ELEVATIONS SHOWN TO BE VIEW FROM EXTERIOR.

SCALE: 3/8" = 1'-0"

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AAMA 507 - THERMAL TEST

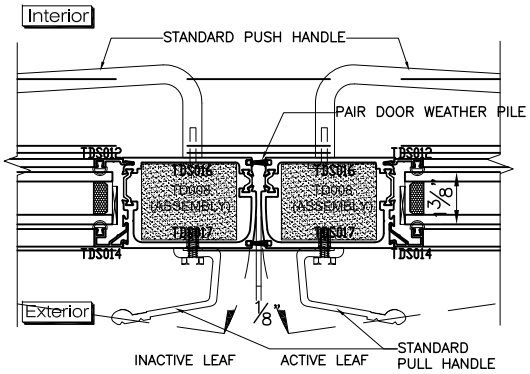
MODEL TESTED: TD350 + FG451IS

GLAZING SET-UP FOR 1-3/8" O.A.

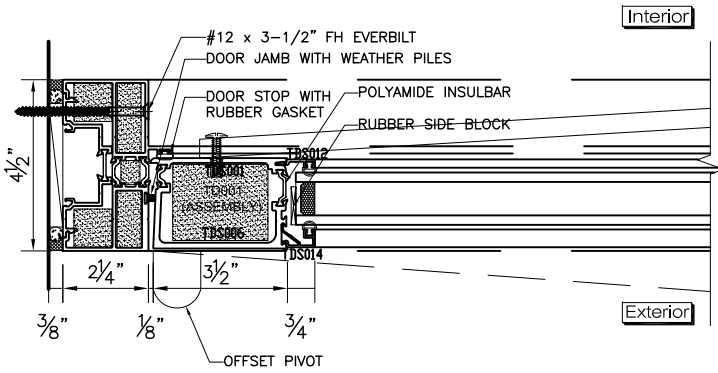
GLASS TYPE:
EXT: 1/4" THICKNESS
3/4" SPACER (ARGON)
INT: 3/8" THICKNESS
GLASS SIZE IS D.L.O. + 1.000

****

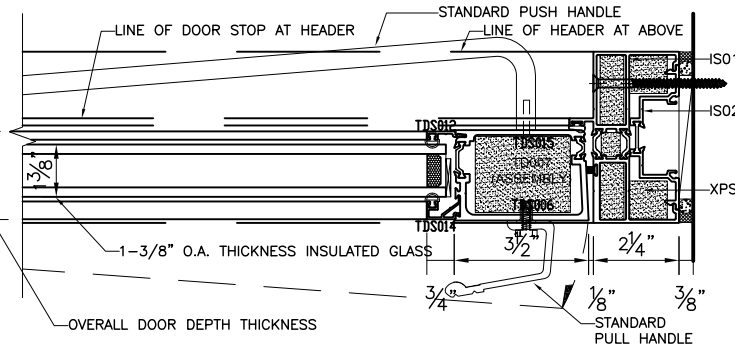
ALL POLYAMIDE INSULBAR'S PROPRIETARY THERMAL CONDUCTIVITY MATERIAL IS LISTED IN THE NFRC 101 DATABASE IN APPENDIX C, PROVIDED COMPANY "ENSINGER"



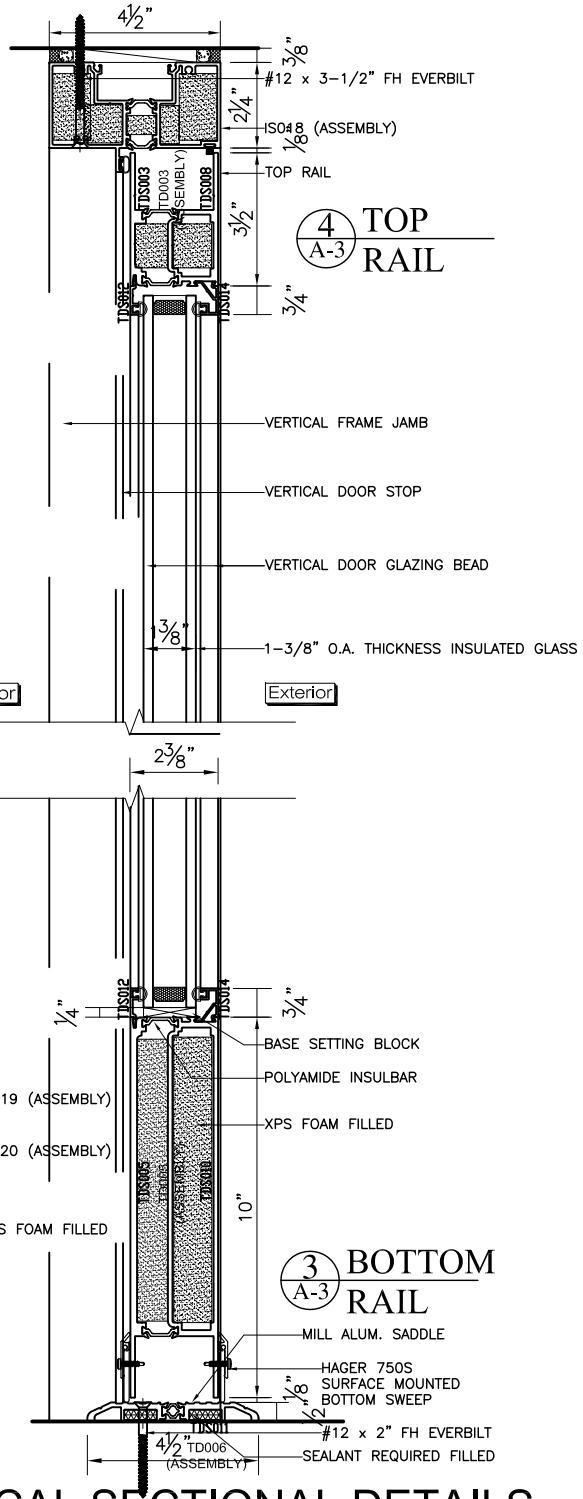
2a A-3 MEETING STILE



1 A-3 VERTICAL JAMB



2 A-3 VERTICAL JAMB



HORIZONTAL SECTIONAL DETAILS

SCALE : 3" = 1'-0"

VERTICAL SECTIONAL DETAILS

SCALE : 3" = 1'-0"

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TD350 DOOR - BOM LIST
THERMAL TESTING MOCK-UP
PAIR DOOR - 1-3/8" I.G.

LINE #	PART #	DESCRIPTION	MATERIAL
1	TD001	HINGE STILE	6063-T5
2	TD003	3.5" TOP RAIL	6063-T5
3	TD005	10" BOTTOM RAIL	6063-T6
4	TDS012	1-3/8" GLAZING BEAD	6063-T5
5	TDS014	EXTERIOR GLAZING BEAD	6063-T5
6	TD008	PAIR STILE	6063-T5
~~7~~	~~TD015~~	~~DOOR SHEAR BLOCK~~	~~6063-T5~~
8	IS018	HEADER DOOR FRAME	6063-T5
9	IS019	JAMB DOOR FRAME	6063-T5
10	IS020	DEEP POCKET FILLER	6063-T5
11	TD006	4-1/2" SADDLE	6063-T5
~~12~~	~~S-13020~~	~~SADDLE CLIP~~	~~6063-T5~~
~~13~~	~~OFFSET(1)~~	~~3/4" OFFSET PIVOTS~~	~~6063-T6~~
~~14~~	~~1850~~	~~AR 1850 HOOK LOCK~~	
15	6032	GLAZING BEAD GASKET	EPDM
16	E273	DOOR STOP GASKET	EPDM

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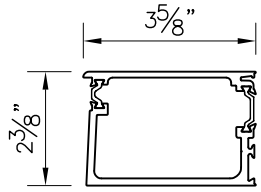
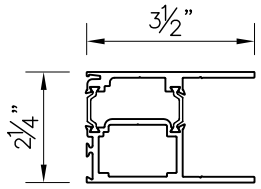
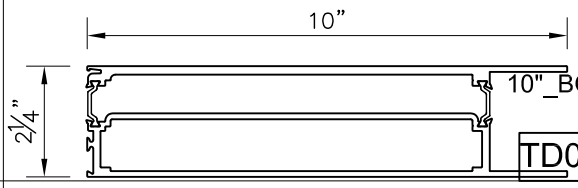
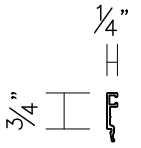
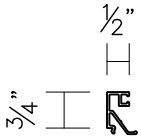
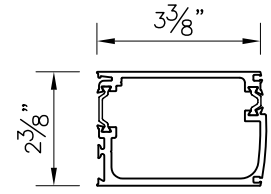
TD350 DOOR - BOM LIST
THERMAL TESTING MOCK-UP
PAIR DOOR - 1-3/8" I.G.

LINE #	PART #	DESCRIPTION	MATERIAL
1	PILE(3)	WEATHER STRIPE	POLYPROPYLENE
2	SWEEP(1)	SURFACE DOOR SWEEP	6063-T5/EPDM
~~3~~	~~SETTING(3)~~	~~SETTING BLOCK~~	~~EPDM~~
4	FOAM	VARIES CUT SIZE FOAMS	XPS FOAM
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

DATE CREATED: 10/11/23

TD350 DOOR - CUTTING LIST
THERMAL TESTING MOCK-UP
PAIR DOOR - 1-3/8" I.G.

QTY.	PROFILE + PART #	COLOR	LENGTH (")
2	 HINGE_STILE TD001	AL	79.375"
2	 3.5"_TOP_RAIL TD003	AL	28.313"
2	 10"_BOT_RAIL TD005	AL	28.313"
4	 1-3/8"_BEAD TDS012	AL	28.253"
4			64.375"
4	 EXT_BEAD TDS014	AL	28.253"
4			64.375"
2	 PAIR_STILE TD008	AL	79.375"

NOTE:

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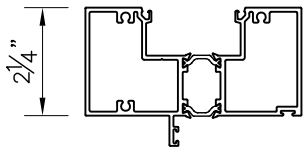
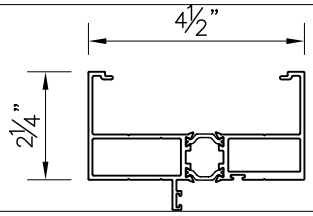
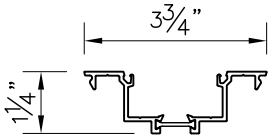
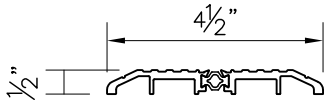
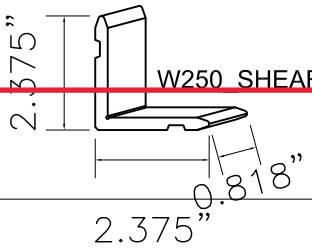
TD350 DOOR - CUTTING LIST
THERMAL TESTING MOCK-UP
PAIR DOOR - 1-3/8" I.G. (FRAME)

QTY.	PROFILE + PART #	COLOR	LENGTH (")
1	 HEADER_DOOR IS018	AL	71.000"
2	 JAMB_DOOR IS019	AL	82.375"
2	 DEEP_POCKET IS020	AL	82.375"
1	 4-1/2"_SADDLE TD006	MILL	71.000"
2	 SADDLE_CLIP S-13020	MILL	0.818"

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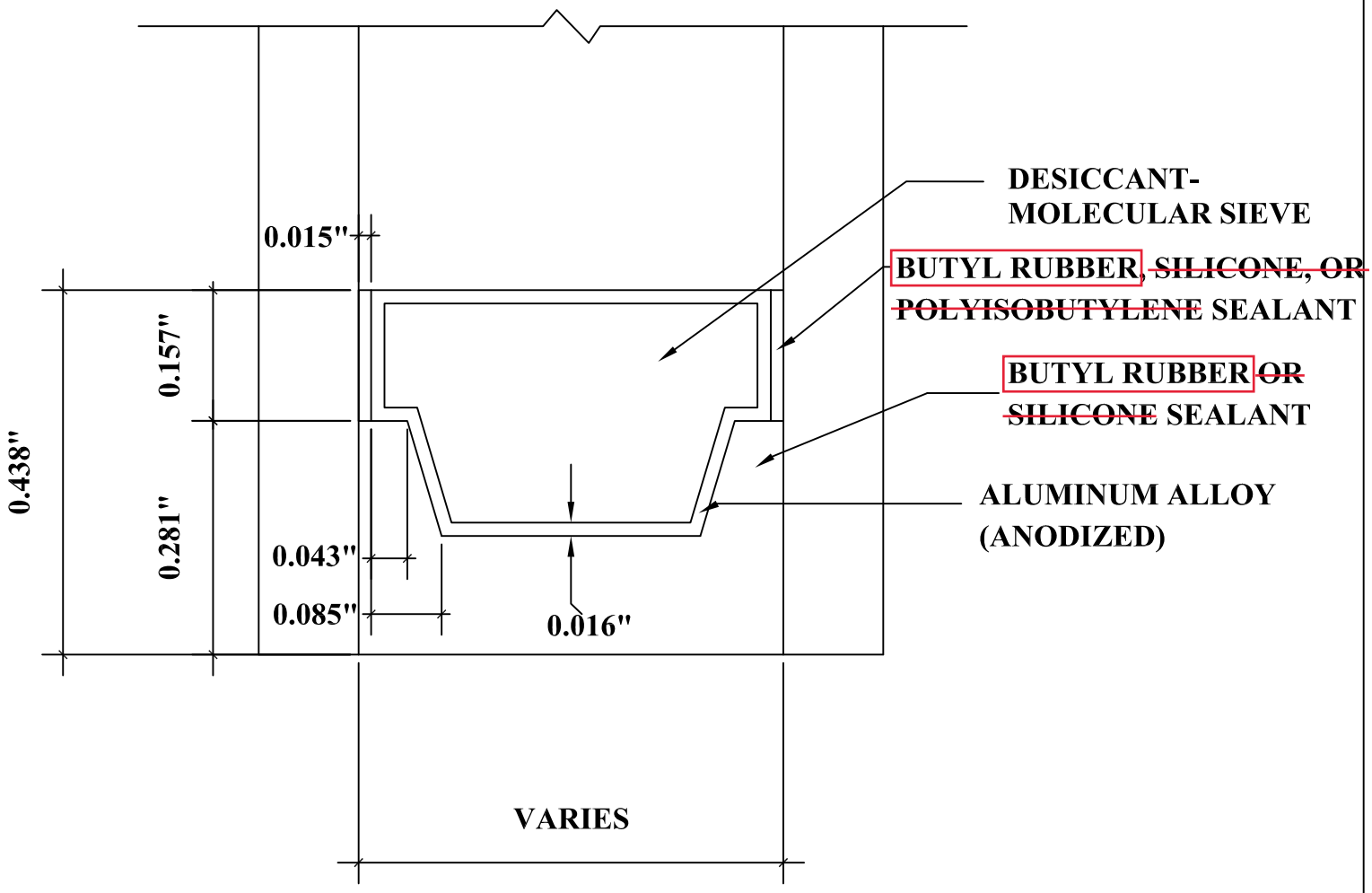

DETAIL FOR THERMAL MODELING OF
ALUMINUM SPACER (A1-D)

130 Derry Court
York, PA, 17406

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

SECTION 8
REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01R0	10/18/23	N/A	Original Report Issued to Gamco Corporation.