

CHOSEN WOOD WINDOW MAINTENANCE COMPUTER SIMULATION REPORT

SCOPE OF WORK

SLIP Window Panel on Baseline Window B - AERC 100 simulations to determine EPc and EPh ratings.

REPORT NUMBER

M3751.01-301-45 R0

TEST DATE

06/09/21

ISSUE DATE

06/17/21

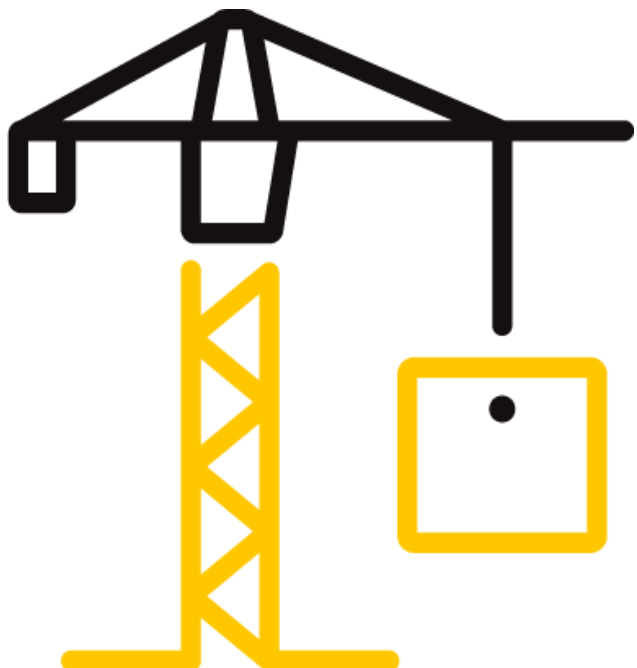
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11

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RT-R-AMER-Test-7853 (11/23/20)

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TEST REPORT FOR CHOSEN WOOD WINDOW MAINTENANCE

Report No.: M3751.01-301-45 R0

Date: 06/17/21

REPORT ISSUED TO

CHOSEN WOOD WINDOW MAINTENANCE

18574 Pacific Hwy E

Oregon City, Oregon 97045

SECTION 1

SUMMARY

SERIES/MODEL: SLIP Window Panel

Intertek Building & Construction (Intertek B&C) was contracted to perform AERC computer simulations utilizing thermal modeling computer software developed by Lawrence Berkeley National Laboratory (LBNL). Results obtained are simulated values and were secured using the designated test methods.

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.

Intertek B&C is an AERC accepted calculation entity and all simulations were conducted in full compliance with AERC approved procedures and specifications.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY: Kenny C. White
TITLE: Laboratory Manager, SIRC
SIGNATURE:
DATE: 06/17/21
KCW:kcw

REVIEWED BY: Eric S. Leitner
TITLE: Manager – Thermal Testing
& Simulations, SIRC
SIGNATURE:
DATE: 06/17/21

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SECTION 2

TEST METHODS

The products were evaluated in accordance with the following:

AERC 100, Standard for Rating the Energy Performance of Fenestration Attachments

SECTION 3

TEST PROCEDURE

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

FRAME AND EDGE MODELING	Therm 7.8.8
CENTER-OF-GLASS MODELING	Window 7.8.14
TOTAL PRODUCT CALCULATIONS	Window 7.8.14
GLASS DATA LIBRARY	IGDB 80.0
ATTACHMENT DATA LIBRARY	CGDB 20.0
TOTAL EPc EPh CALCULATIONS	AERCalc 1.3.7

Modeling Assumptions / Technical Interpretations

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

- 1) Air leakage was determined per AERC 1.2. Reference Report #J8952.01-109-44.

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SECTION 4

SUMMARY

SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	SLIP Window Panel
PRODUCT TYPE	Fixed, 4-Sided
ATTACHMENT TYPE	Window Panel
DESCRIPTION	Aluminum Window Panel
BASE WINDOW	BW-B

BASE WINDOW GLAZING DESCRIPTION					
	OUTER PANE	MIDDLE PANE	INNER PANE	GAP SIZE	OVERALL
All	1/8"	N/A	1/8"	0.50"	3/4"
	OUTER PANE	MIDDLE PANE	INNER PANE		
All	Clear	N/A	Clear		
	SPACER TYPE	PRIMARY SEAL	SECONDARY SEAL	CODE	
All	Aluminum Spacer	Butyl	Butyl	A1-D	

ATTACHMENT DESCRIPTION					
	TYPE	CODE	POSITION	MOUNT	GAP
	Window Panel	WP	Exterior	Inside	0.84"
	OUTER PANE	MIDDLE PANE	INNER PANE	GAP SIZE	OVERALL
1,2	1/8"	N/A	N/A	N/A	1/8"
	OUTER PANE	MIDDLE PANE	INNER PANE		
1	Clear	N/A	N/A		
2	Energy Advantage (0.164, #2)	N/A	N/A		

	TYPE	CODE	POSITION	MOUNT	GAP
	Window Panel	WP	Exterior	Inside	0.82"
	OUTER PANE	MIDDLE PANE	INNER PANE	GAP SIZE	OVERALL
3,4,5	1/4"	N/A	N/A	N/A	1/4"
	OUTER PANE	MIDDLE PANE	INNER PANE		
3	Clear	N/A	N/A		
4	Energy Advantage (0.164, #2)	N/A	N/A		
5	Clear Lami	N/A	N/A		

	SPACER TYPE	PRIMARY SEAL	SECONDARY SEAL	CODE
All	No Spacer	N/A	N/A	N/A

* Stated per client/manufacture

N/A Non-Applicable

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SECTION 5

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (SLIP Window Panel)								
Option Number	Description	AERC Baseline Window Type	Total Product Performance					
			U-Value (BTU/h·ft²·F)	SHGC	VT	AL (cfm/ft²)	EP_c	EP_h
1	SLIP 3mm Clear	BW-B	0.31	0.56	0.61	1.58	12	50
2	SLIP 3mm EA	BW-B	0.26	0.52	0.57	1.58	18	66
3	SLIP 6mm Clear	BW-B	0.31	0.53	0.60	1.58	18	45
4	SLIP 6mm EA	BW-B	0.26	0.47	0.55	1.58	26	60
5	SLIP 6mm Lami	BW-B	0.31	0.53	0.60	1.58	19	45

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SECTION 6

DRAWINGS / BILL OF MATERIALS

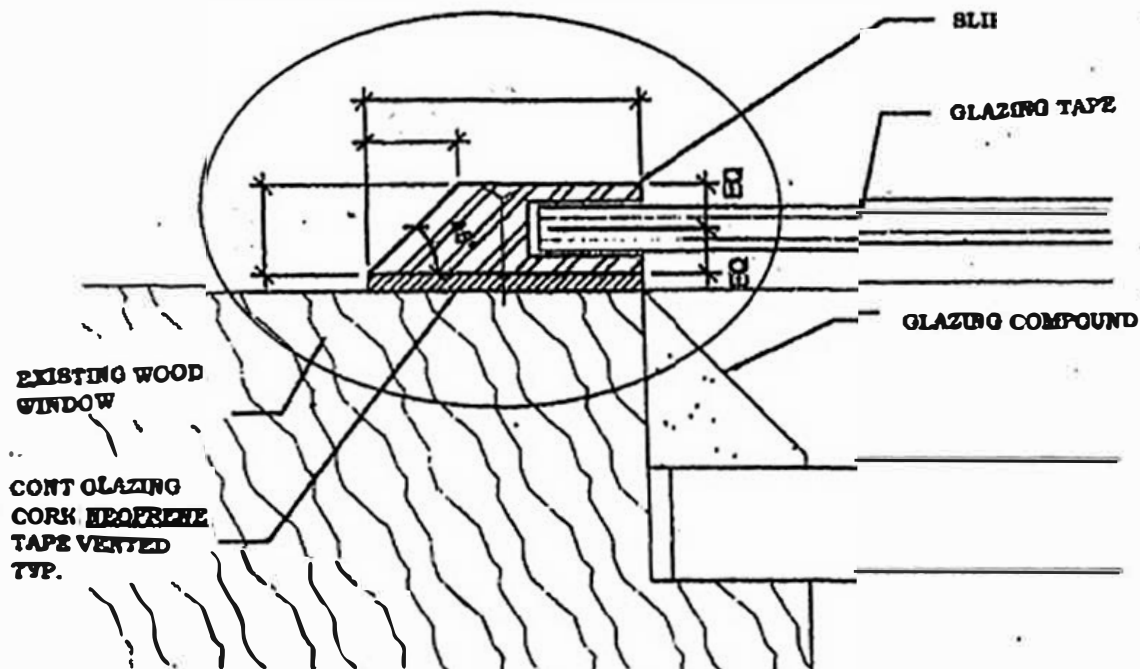
The drawings which follow have been reviewed by Intertek B&C and are representative of the simulation result(s) reported herein. Any deviations are documented herein or on the drawings.

Part Description	Material	Finish
Frame	Aluminum Extrusion	Paint/Powdercoat
Gasket	Cork Neoprene	
Fasteners	Optional SS FLAT HD PHIL TAP SCREW #6 X 3/4"	Mill

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	Date:	06/17/2021
	Verified by:	<i>RC. Walter</i>

NOTE:

1. INSTALL GLAZING TAPE IN A MANNER THAT PREVENTS GAPS AT CORNERS AND WHERE VERTICAL & HORIZONTAL TAPE APPLICATION MEET.
2. GLAZING TAPE MUST BE CONCEALED BEHIND SLIM LINE INSULATING PANE (SLIP) FRAME UPON INSTALLATION, TYP.



SLIP (SLIM LINE INSULATING PANE) DETAIL

SCALE: NTS

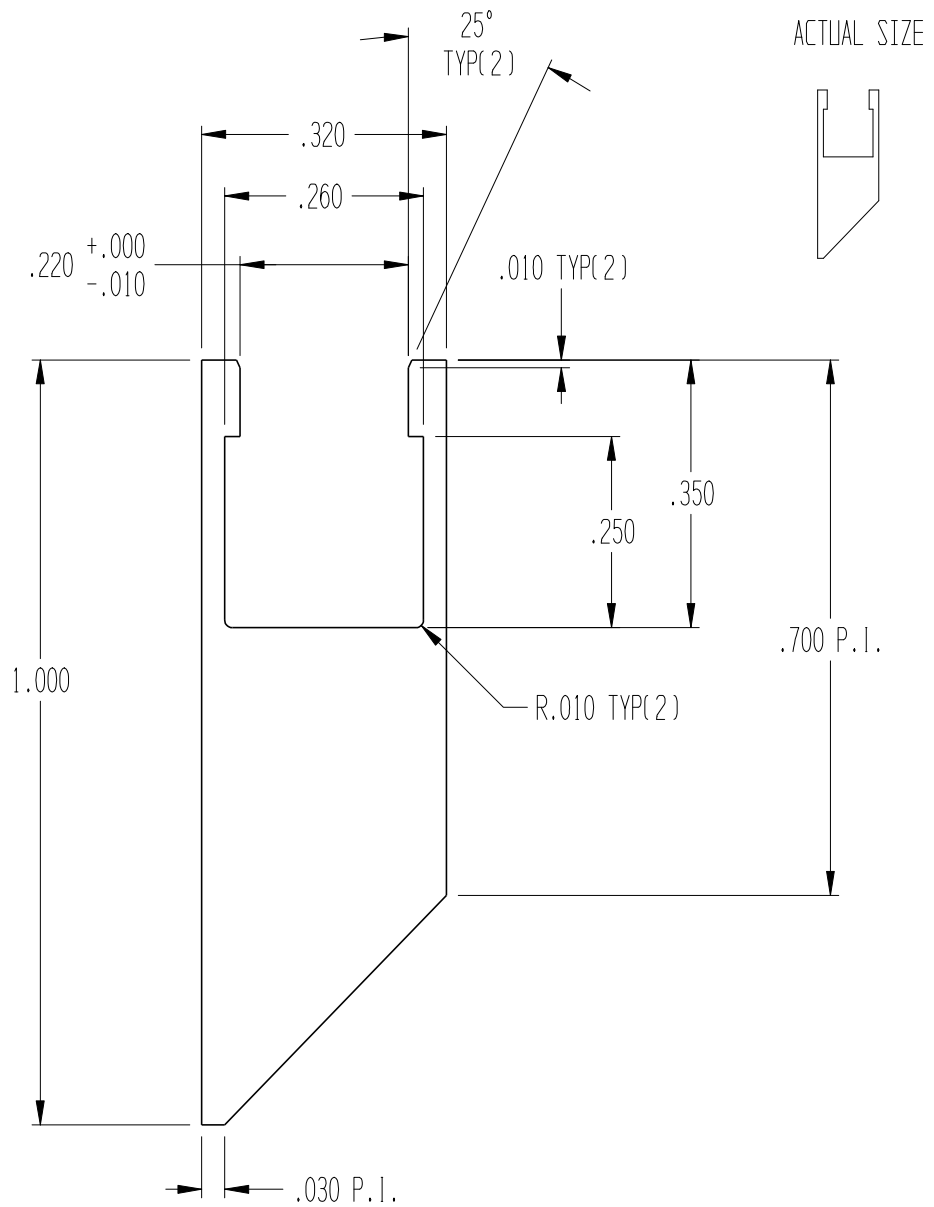
intertek
Total Quality. Assured.

Report #: M3751.01-301-45

Date: 06/17/2021

Verified by: *RC. W. 10/10*

REVISIONS				MIC		COMP		24102	
REV.	DESCRIPTION	DATE	APPROVED	CAL		OTHR		DIE NUMBER	REV.



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 Verified by: RC. Miller

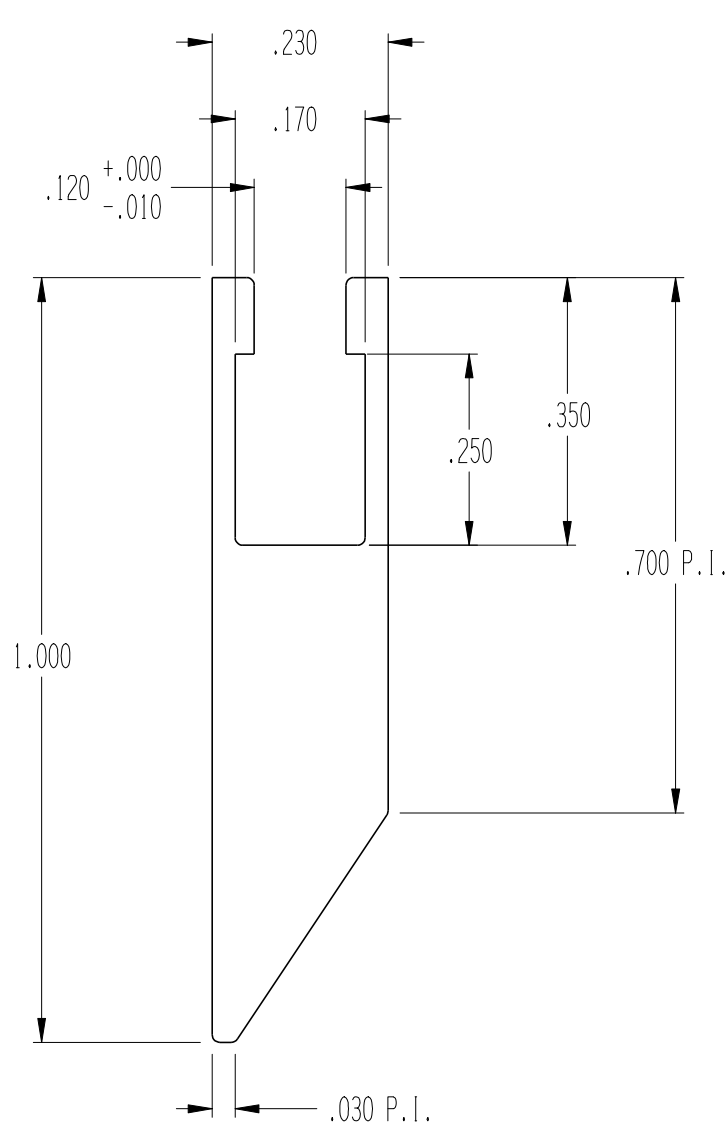
NOTES:
 1. ALL TOLERANCES PER ALUM ASSOC STD.

APPROVED BY
 DATE

EST. AREA	0.1895	CYL. SIZE	4.25	minalex CORPORATION P.O. BOX 247 * CODDINGTON ROAD WHITEHOUSE STATION, N J 08889			DIE NUMBER	24102
EST. WGT.	0.2274	EXT. RATIO	94					
PERIMETER	3.2314	NO. HOLES	1					
FACTOR	14	ALLOY	6063-T5					
SOLID	☒	HOLLOW	☐	SEMI-HOLLOW	☐	CUSTOMER	CHOSEN	REV.
SCALE	4X	DATE	4/21/21	DWN.	JJR	DESCRIPTION	NEW 1/4"	

REVISIONS				MIC	COMP	24104	
REV.	DESCRIPTION	DATE	APPROVED	CAL	OTHR	DIE NUMBER	REV.

ACTUAL SIZE



intertek Total Quality. Assured.

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NOTES:

1. ALL UNSPECIFIED TOLERANCES PER ALUM ASSOC STD.
2. UNSPECIFIED RADII .010

APPROVED BY
DATE

EST. AREA		0.1455	CYL. SIZE		4.0	minalex CORPORATION P.O. BOX 247 * CODDINGTON ROAD WHITEHOUSE STATION, N J 08889		DIE NUMBER	24104	
EST. WGT.		0.1746	EXT. RATIO		109					
PERIMETER		3.0980	NO. HOLES		1					
FACTOR		18	ALLOY		6063-T5					
SOLID		☒	HOLLOW		☐	SEMI-HOLLOW		☐	CUSTOMER	CHOSEN
SCALE		4X	DATE		4/29/21	DWN.		JJR	DESCRIPTION	E201-WEB



Total Quality. Assured.

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SECTION 7

REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01R0	06/17/21	N/A	Original Report Issued to Chosen Wood Window Maintenance.