

ALEX GLASS CONSTRUCTION CORP. COMPUTER SIMULATION REPORT

SCOPE OF WORK

101 EAST 2ND STREET (TYPE W1) - CUSTOM COMPUTER SIMULATIONS TO DETERMINE ESTIMATED PRODUCT/ELEVATION U-FACTOR

REPORT NUMBER

L0242.01-116-45 R0

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TEST REPORT FOR ALEX GLASS CONSTRUCTION CORP.

Report No.: L0242.01-116-45 R0 Date: 06/17/20

REPORT ISSUED TO

ALEX GLASS CONSTRUCTION CORP. 2800 Coyle Suite 280 Brooklyn, New York 11235

SECTION 1

SUMMARY

SERIES/MODEL: 101 East 2nd Street (Type W1)

Intertek Building & Construction (Intertek B&C) was contracted to perform custom 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.

This report is prepared for research and informational purposes only. These results are only a guide to the actual system performance and should not be interpreted as exact performance. This analysis is performed at ideal steady-state conditions and does not account for any outside influences, three-dimensional interactions, or final installation of the system in the field.

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.

For INTERTEK B&C:							
COMPLETED BY:	Eric S. Leitner	REVIEWED BY:	Allison M. Ford				
	Manager - Thermal						
TITLE:	Testing & Simulations	TITLE:	Simulation Technician				
SIGNATURE:		SIGNATURE:					
DATE:	06/17/20	DATE:	06/17/20				
ESI :ocl							

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SECTION 2 TEST METHODS

The products were evaluated in accordance with the following:

ANSI/NFRC 100-2017, Procedure for Determining Fenestration Product U-Factors

ANSI/NFRC 200-2017, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence

THERM 7.4, This program calculates heat loss through frame and edge-of-glass components using finite difference analysis. The program solves for temperature and heat flow distribution throughout the cross section. The temperature distribution can then be used to determine overall heat loss, total and component U-Factors, and local temperatures at points of interest.

WINDOW 7.4, This program calculates U-Factor and center-of-glazing (COG) temperatures using a two-dimensional heat flow analysis.

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 7.4.4
CENTER-OF-GLASS MODELING	WINDOW 7.4.14
TOTAL PRODUCT CALCULATIONS	WINDOW 7.4.14
SPECTRAL DATA LIBRARY	IGDB 72.0

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) Models were constructed at ideal conditions. Hardware, fasteners, and weep holes were not modeled.
- 3) The modeling procedure is two-dimensional. It does not take into account threedimensional heat flow that might occur at the corners of an assembly.



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SIMULATION SPECIMEN DESCRIPTION

SERIES/MODEL	101 East 2nd Street (Type W1)
FRAME MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members
SASH MATERIAL	AT - Aluminum w/ Thermal Breaks - All Members

GLAZING OPTIONS							
	OUTER PANE	GAP SIZE	GAP FILL	INNER PANE			
GL1	6mm Solaban 60 (#2)	20mm	100% Air	6mm Clear			
GL2	6mm Solaban 60 (#2)	20mm	90% Argon	6mm Clear			
GL3	6mm SunGuard SN68 (#2)	20mm	100% Air	6mm Clear			
GL4	6mm SunGuard SN68 (#2)	20mm	90% Argon	6mm Clear			

SPACER OPTIONS			
ТҮРЕ	PRIMARY SEAL	SECONDARY SEAL	CODE
Saint-Gobain Swisspacer	Butyl Rubber	Polysulphide	TP-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

*U-factor temperature criteria per ANSI/NFRC 100-2017



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SECTION 6

SIMULATION RESULTS

U-FACTOR CALCULATIONS

The U-Factor of the system was determined in general accordance with ANSI/NFRC 100-2017: Procedures for Determining Fenestration Product U-Factors. Complete calculation data is shown in the charts below.

Elevation Description	U-Factor	SHGC	VT
Elevation W1 Combined (GL1)	0.334	0.287	0.501
Elevation W1 Combined (GL2)	0.300	0.284	0.501
Elevation W1 Combined (GL3)	0.335	0.277	0.483
Elevation W1 Combined (GL4)	0.302	0.275	0.483



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)				
Elevation Description	GL1 - Upper Fixed			
Height:	24.000			
Width:	72.000			
Area:	12.000			

	THER	M Values		Calculated Data				
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed Head	0.396	2.434	69.566	1.176	0.466	0.044	0.000
e	Fixed/Operable Sill	0.437	2.335	69.566	1.128	0.492	0.047	0.000
an	Left Jamb	0.384	2.434	21.615	0.365	0.140	0.013	0.000
Ē	Right Jamb	0.384	2.434	21.615	0.365	0.140	0.013	0.000
	Fixed Vertical	0.402	3.450	19.231	0.461	0.185	0.018	0.000
	Fixed Head	0.314	2.500	61.182	1.062	0.333	0.412	0.748
പ	Fixed/Operable Sill	0.316	2.500	61.182	1.062	0.336	0.412	0.748
dg	Left Jamb	0.311	2.500	16.731	0.290	0.090	0.113	0.205
ш	Right Jamb	0.311	2.500	16.731	0.290	0.090	0.113	0.205
	Fixed Vertical	0.310	5.000	14.231	0.494	0.153	0.192	0.348
S	COG - GL1	0.309	14.231	53.682	5.305	1.641	2.057	3.736
las	SHGC - GL1	0.388						
9	VT - GL1	0.704						

Sums	12.000	4.068	3.433	5.989	
Total Product Calculations					
U-Factor:	0.339				
SHGC:					
VT:	0.499				



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)				
Elevation Description	GL1 - Lower Operable			
Height:	60.000			
Width:	72.000			
Area:	30.000			

	THERM Values			Calculated Data				
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed/Operable Head	0.381	2.335	67.991	1.103	0.420	0.040	0.000
e	Sill	0.387	4.009	67.991	1.893	0.732	0.069	0.000
an	Left Jamb	0.388	4.009	56.828	1.582	0.613	0.058	0.000
Ē	Right Jamb	0.388	4.009	56.828	1.582	0.613	0.058	0.000
	Operable Vertical	0.390	6.600	53.656	2.459	0.959	0.091	0.000
	Fixed/Operable Head	0.311	2.500	54.883	0.953	0.296	0.369	0.671
പ	Sill	0.313	2.500	54.883	0.953	0.298	0.369	0.671
dg	Left Jamb	0.312	2.500	51.156	0.888	0.277	0.344	0.625
ш	Right Jamb	0.312	2.500	51.156	0.888	0.277	0.344	0.625
	Operable Vertical	0.312	5.000	48.656	1.689	0.527	0.655	1.190
S	COG - GL1	0.309	48.656	47.383	16.010	4.951	6.209	11.274
las	SHGC - GL1	0.388						
9	VT - GL1	0.704						

Sums	30.000	9.963	8.608	15.056		
Total Product Calculations						
U-Factor:	0.332					
SHGC:	0.287					
VT:	0.502					



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SECTION 6

U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)					
Elevation Description GL2 - Upper Fixed					
Height:	24.000				
Width:	72.000				
Area:	12.000				

	THER	Calculated Data						
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed Head	0.387	2.434	69.566	1.176	0.455	0.043	0.000
e	Fixed/Operable Sill	0.426	2.335	69.566	1.128	0.481	0.046	0.000
an	Left Jamb	0.374	2.434	21.615	0.365	0.137	0.013	0.000
ι Έ	Right Jamb	0.374	2.434	21.615	0.365	0.137	0.013	0.000
	Fixed Vertical	0.388	3.450	19.231	0.461	0.179	0.017	0.000
	Fixed Head	0.276	2.500	61.182	1.062	0.293	0.409	0.748
പ	Fixed/Operable Sill	0.279	2.500	61.182	1.062	0.296	0.409	0.748
dg	Left Jamb	0.274	2.500	16.731	0.290	0.079	0.112	0.205
ш	Right Jamb	0.274	2.500	16.731	0.290	0.079	0.112	0.205
	Fixed Vertical	0.272	5.000	14.231	0.494	0.134	0.190	0.348
S	COG - GL2	0.262	14.231	53.682	5.305	1.390	2.042	3.736
las	SHGC - GL2	0.385						
6	VT - GL2	0.704						

Sums	12.000	3.660	3.405	5.989		
Total Product Calculations						
U-Factor:	0.305					
SHGC:	0.284					
VT:	0.499					



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)					
Elevation Description GL2 - Lower Operable					
Height:	60.000				
Width:	72.000				
Area:	30.000				

	THERM Values			Calculated Data				
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed/Operable Head	0.371	2.335	67.991	1.103	0.409	0.039	0.000
e	Sill	0.381	4.009	67.991	1.893	0.721	0.068	0.000
an	Left Jamb	0.382	4.009	56.828	1.582	0.604	0.057	0.000
Ē	Right Jamb	0.382	4.009	56.828	1.582	0.604	0.057	0.000
	Operable Vertical	0.383	6.600	53.656	2.459	0.941	0.089	0.000
	Fixed/Operable Head	0.273	2.500	54.883	0.953	0.260	0.367	0.671
പ	Sill	0.275	2.500	54.883	0.953	0.262	0.367	0.671
dg	Left Jamb	0.274	2.500	51.156	0.888	0.244	0.342	0.625
ш	Right Jamb	0.274	2.500	51.156	0.888	0.244	0.342	0.625
	Operable Vertical	0.274	5.000	48.656	1.689	0.463	0.650	1.190
S	COG - GL2	0.262	48.656	47.383	16.010	4.194	6.163	11.274
las	SHGC - GL2	0.385						
6	VT - GL2	0.704						

Sums	30.000	8.946	8.541	15.056		
Total Product Calculations						
U-Factor:	0.298					
SHGC:	0.285					
VT:	0.502					



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)					
Elevation Description GL3 - Upper Fixed					
Height:	24.000				
Width:	72.000				
Area:	12.000				

	THERM Values			Calculated Data				
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed Head	0.397	2.434	69.566	1.176	0.466	0.044	0.000
e	Fixed/Operable Sill	0.437	2.335	69.566	1.128	0.493	0.047	0.000
an	Left Jamb	0.385	2.434	21.615	0.365	0.140	0.013	0.000
Ē	Right Jamb	0.385	2.434	21.615	0.365	0.140	0.013	0.000
	Fixed Vertical	0.403	3.450	19.231	0.461	0.186	0.018	0.000
	Fixed Head	0.315	2.500	61.182	1.062	0.334	0.398	0.721
പ	Fixed/Operable Sill	0.317	2.500	61.182	1.062	0.337	0.398	0.721
dg	Left Jamb	0.312	2.500	16.731	0.290	0.091	0.109	0.197
ш	Right Jamb	0.312	2.500	16.731	0.290	0.091	0.109	0.197
	Fixed Vertical	0.311	5.000	14.231	0.494	0.154	0.185	0.336
S	COG - GL3	0.311	14.231	53.682	5.305	1.648	1.987	3.603
las	SHGC - GL3	0.375						
9	VT - GL3	0.679						

Sums:		12.000	4.080	3.321	5.776	
Total Product Calculations						
U-Factor:	0.340					
SHGC:	0.277					
VT:	0.481					



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)						
Elevation Description GL3 - Lower Operable						
Height:	60.000					
Width:	72.000					
Area:	30.000					

	THERM Values			Calculated Data				
	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed/Operable Head	0.381	2.335	67.991	1.103	0.420	0.040	0.000
e	Sill	0.387	4.009	67.991	1.893	0.733	0.069	0.000
an	Left Jamb	0.388	4.009	56.828	1.582	0.614	0.058	0.000
ц	Right Jamb	0.388	4.009	56.828	1.582	0.614	0.058	0.000
	Operable Vertical	0.390	6.600	53.656	2.459	0.959	0.091	0.000
	Fixed/Operable Head	0.312	2.500	54.883	0.953	0.297	0.357	0.647
۵	Sill	0.314	2.500	54.883	0.953	0.299	0.357	0.647
dg	Left Jamb	0.313	2.500	51.156	0.888	0.278	0.333	0.603
ш	Right Jamb	0.313	2.500	51.156	0.888	0.278	0.333	0.603
	Operable Vertical	0.313	5.000	48.656	1.689	0.528	0.633	1.147
S	COG - GL3	0.311	48.656	47.383	16.010	4.974	5.998	10.874
las	SHGC - GL3	0.375						
9	VT - GL3	0.679						

Sums:		30.000	9.993	8.327	14.522
Total Product Calculations					
U-Factor:	0.333				
SHGC:	0.278				
VT:	0.484				



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)				
Elevation Description GL4 - Upper Fixed				
Height:	24.000			
Width:	72.000			
Area:	12.000			

	THER	M Values		Calculated Data				
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed Head	0.387	2.434	69.566	1.176	0.455	0.043	0.000
e	Fixed/Operable Sill	0.426	2.335	69.566	1.128	0.481	0.046	0.000
an	Left Jamb	0.375	2.434	21.615	0.365	0.137	0.013	0.000
Ē	Right Jamb	0.375	2.434	21.615	0.365	0.137	0.013	0.000
	Fixed Vertical	0.389	3.450	19.231	0.461	0.179	0.017	0.000
	Fixed Head	0.277	2.500	61.182	1.062	0.294	0.395	0.721
പ	Fixed/Operable Sill	0.280	2.500	61.182	1.062	0.297	0.395	0.721
dg	Left Jamb	0.275	2.500	16.731	0.290	0.080	0.108	0.197
ш	Right Jamb	0.275	2.500	16.731	0.290	0.080	0.108	0.197
	Fixed Vertical	0.273	5.000	14.231	0.494	0.135	0.184	0.336
S	COG - GL4	0.264	14.231	53.682	5.305	1.398	1.972	3.603
las	SHGC - GL4	0.372						
6	VT - GL4	0.679						

Sums:		12.000	3.674	3.294	5.776
Total Product Calculations					
U-Factor:	0.306				
SHGC:	0.274				
VT:	0.481				



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U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)				
Elevation Description GL4 - Lower Operable				
Height:	60.000			
Width:	72.000			
Area:	30.000			

	THER	M Values		Calculated Data				
-	Cross Section	U-Factor	Height	Width	Area	U*A	SHGC*A	VT*A
	Fixed/Operable Head	0.381	2.335	67.991	1.103	0.420	0.040	0.000
e	Sill	0.381	4.009	67.991	1.893	0.722	0.068	0.000
an	Left Jamb	0.382	4.009	56.828	1.582	0.604	0.057	0.000
Ē	Right Jamb	0.382	4.009	56.828	1.582	0.604	0.057	0.000
	Operable Vertical	0.372	6.600	53.656	2.459	0.914	0.087	0.000
	Fixed/Operable Head	0.312	2.500	54.883	0.953	0.297	0.354	0.647
പ	Sill	0.276	2.500	54.883	0.953	0.263	0.354	0.647
dg	Left Jamb	0.276	2.500	51.156	0.888	0.245	0.330	0.603
ш	Right Jamb	0.276	2.500	51.156	0.888	0.245	0.330	0.603
	Operable Vertical	0.274	5.000	48.656	1.689	0.463	0.628	1.147
S	COG - GL4	0.264	48.656	47.383	16.010	4.220	5.953	10.874
las	SHGC - GL4	0.372						
0	VT - GL4	0.679						

Sums:		30.000	8.997	8.259	14.522
Total Product Calculations					
U-Factor:	0.300				
SHGC:	0.275				
VT:	0.484				



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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.

					CLIENT:
DRAWINGS LEGENDS	MATERIA	ALS USED / AVAILABILITY		GENERAL NOTES	
CONCRETE // GLASS	MATERIAL	MANUFACTURER	LEAD TIME	1. ALEX GLASS CORP. WILL ASSUME NO RESPONSIBILITY FOR	
ALUMINUM RUBBER	TEMPERED GLASS	LOCAL SUPPLIER	ТВА	OTHER TRADES.	
	HARDWARE	IMPORTED	TBA	ACCORDANCE WITH ALEX GLASS CORP. QUOTATION OR PER	ARCHITECT:
	WINDOW AND DOOR COMPONENTS	IMPORTED	ТВА	ACCEPTED CHANGE ORDER(S) AND OTHER APPLICABLE	
				3. THESE DRAWINGS REPRESENT ALEX GLASS CORP.	
GLASS IN SECTION				INTERPRETATION OF THE APPLICATION OF PRODUCTS TO THIS PROJECT IN FUNCTIONAL COMPLIANCE WITH THE ARCHITECT'S	
RIGID INSULATION WINDOW FOAM				DRAWINGS AND SPECIFICATIONS.	Alex Glass
BATT INSULATION INSULATED METAL PANEL	L			FROM STAINING BY WET CARDBOARD PAPER AND FROM THE	Construction
BRICK GYPSUM WALLBOARD				ACTION OF HARSH ALKALIS AND SAND IN CONCRETE, STUCCO, MORTAR OR PLASTER. THE SETTING OF THE PROJECT	ALEX GLASS CONSTRUCTION CORP. 2800 Coyle Street, Suite 280, Brooklyn, NEW YORK, 11235
REVISION COLOR NOTE COLOR				MATERIALS REQUIRES G.C. TO CLOSELY SUPERVISE OTHER	PROJECT ADDRESS:
	PROJECT:101 EAST 2	2ND STREET, NEW YORK ONTRACT #:		ANY OTHER DAMAGE FROM ANY CAUSE.	101 cost 2nd Street
DENOTES BLOCKING OR SHIM NOT CONTINUOUS AND NOT NECESSARILY ONE PIECE AND NOT BY PERA CONSTRUCTION				5. ALL GASKET JOINTS, BUTT JOINTS, LAP JOINTS, HEEL BEADS, TOE BEADS AND CAP BEADS SHOULD BE SEALED WATERTIGHT	New York
DENOTES BACKER ROD OR CAULK ROPE	SUBJECT: WI	NDOWS& DOORS		FOLLOWING SEALANT MANUFACTURER RECOMMENDATIONS	
DIMENSIONAL REFERENCE / ELEVATION	О Ц О Ц О Ц О Ц О Ц О Ц О Ц О Ц О Ц О Ц			WITH ADJOINING MATERIAL.	DATE REVISION #
		JIAVIINUJ		6. ALL GLASS AND FINISHED MATERIALS MUST BE PROTECTED DURING WELDING OPERATIONS, FIREPROOFING OR ANY	
				OTHER PROCESS THAT MAY BE HARMFULL TO THE	
S FIELD APPLIED SEALANT				7. THE ROUGH OPENING PROVIDED MUST BE SQUARE AND	
SD SHOP DRILLED				WITHIN SPECIFIED BUILDING TOLERANCE. 8. PERIMETER SUBSTRATE MUST BE CAPABLE OF	
FD FIELD DRILLED				WITHSTANDING REACTION FORCES IMPOSED BY WIND	
1 GLAZING INDICATION NUMBER				FOR INSUFFICIENT SUBSTRATE AND/OR ANCHORING WHICH	
1 ELEVATION NUMBER				DEVIATES FROM THAT SHOWN.	APPROVED
					CLIENT'S SIGNATURE
					DATE//
DETAIL NUMBER					ALL RIGHTS RESERVED
					ALL DRAWINGS SPECLIFICATIONS AND COPIES THERE OF FURNISHED BY ALEX GLASS CORP.
A-300 ELEVATION MARK / TITLE ELEVATION SHEET NUMBER					AND SHALL REMAIN ITS PROPERTY. THEY ARE NOT TO BE USED ON THIS OR ANY OTHER PROJECT UNLESS WRITTEN PERMISSION IS GIVEN.
D1 DOOR TYPE, DOOR NUMBER	SUPPLY AND INSTALL ALUMIN	TECHNO W62 SERIES WINDOWS, DO	DORS		
					DO NOT SCALE DRAWINGS
		SHEET INDEX		ABBREVIATIONS	ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.
	NUMBER DESCRIPTION	NUMBER DESCRIPTION		G.C. = GENERAL CONTRACTOR	DRAWING TITLE: WINDOWS&DOORS
	A-000.00 COVER SHEET			V.I.F. = VERIFY IN FIELD T.O.F.F. = TOP OF FINISH FLOOR	COVER SHEET
	A-100.00 1ST FLOOR PLAN			T.B.D. = TO BE DETERMINED N L C = NOT IN CONTRACT	
	A-101.00 2ND FLOOR PLAN			N.T.S. = NOT TO SCALE	REVIEWED BY PROJECT MANAGER
	A-102.00 3RD THRU 6TH FLOOR PLAN			U.O.N. = UNLESS OTHERWISE NOTED A.E. = APPROVED EQUAL	BY: DATE:
	A-103.00 / TH FLOOR PLAN Δ-200.00 FRONT FLEV/ΔΤΙΟΝ			S.S.O. = SINGLE SWING OUT	NOTE:
ALL FINISHES: RAL-9004 (SIGNAL BLACK)	A-201.00 REAR ELEVATION			S.S.I. = SINGLE SWING IN	DIMENSIONS FIELD VERIFIED
	A-202.00 LEFT ELEVATION			D.S.I. = DOUBLE SWING IN C.O.=CHANGE ORDER	BY: DATE:
	A-203.00 RIGHT ELEVATION				NOTE:
	A-400.00 EXTERIOR WINDOW ELEVATIONS				DATE: 04.07.2020
GLASS SCHEDULE	A-401.00 TYPICAL CLIPS LOCATIONS			LEFT BLANK FOR NOTES	DRAWN BY:
	A-500.00 WINDOWS SECTIONS A-600.00 WINDOWS SCHEDULE			NOTE: - VERIFY ALL OPENINGS IN FIELD PRIOR TO FABRICATION.	CHECKED BY:
1/4" CLEAR TEMPERED LOW-E + 1/2" AIR GAP + 1/4" CLEAR TEMPERED.					
				Report #: L0242-116-45	
				Total Quality. Assured. Date. 0/1//2020 Verified by: Size J Life	A-000.00
					01 OF 13

MATERIALS USED / AV	AILABILITY		
	MANUFACTURER	LEAD TIME	
	LOCAL SUPPLIER	ТВА	
	IMPORTED	ТВА	
	IMPORTED	ТВА	



46			
+ // +	24 11/16"		
W6 W6 B4" OVERALL UNIT SIZE 5" ROUGH OPENING SIZE	1/2"		
).	
	Report #:	L0242-116-45	
intertek	Report #: Date:	L0242-116-45 6/17/2020	
	Report #: Date: Verified by:	L0242-116-45 6/17/2020	
intertek Total Quality. Assured.	Report #: Date: Verified by:	L0242-116-45 6/17/2020	
ING CHEDULE	Report #: Date: Verified by:	L0242-116-45 6/17/2020	
ING CHEDULE 'SOLARBAN 60 1/4" OVER 1	Report #: Date: Verified by:	LO242-116-45 6/17/2020	
ING CHEDULE SOLARBAN 60 1/4" OVER 1 FY ALL OPENINGS IN FIELD DOW HANDLES DOES NOT DLE ABOVE FINISHED FLOO DOOR HANDLES TO BE 36" DOORS SHOULD HAVE A C REES. GLASS SPECS SHOULD BE	Report #: Date: Verified by: /4" CLEAR TEM D PRIOR TO FA EXCEED 48" F OR (AFF). ABOVE AFF TO LEAR OPENINO	LO242-116-45 6/17/2020 December December PERED. BRICATION. MAX. FROM THE CENTERL D THE CENTERLINE OF HA G OF 32" MIN. WHEN OPEN U 0.32 , OITC 32.	NE OF NDLE. 90

	ARCHITECT:	
	PREPARED BY: Alex Glass Construction	
ALEX GLAS 2800 Coy	S CONSTRUCTION le Street, Suite 280, Brook NEW YORK, 11235	I COR klyn, m
P	ROJECT ADDRESS:	n
101 e	east 2nd Stree New York	et,
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DC ALL DIMENSIC	SPECIAL NOTES:	PRIOR ⁻
	DRAWING TITLE:	
EXTE E	RIOR WINDOWS&DOORS	W
REVIEW	VED BY PROJECT MANAG	ER
BY:	DATE:	
BY:	DATE:	
NOTE:		
DATE: 04.	07.2020	
	BY:	
DRAWN E		
DRAWN E CHECKED	BY:	

CLIENT:





not more than 18", equal

<u>GLAZING</u>

NOTE:

- ALL DOOR HANDLES TO BE 36" ABOVE AFF TO THE CENTERLINE OF HANDLE. - ALL DOORS SHOULD HAVE A CLEAR OPENING OF 32" MIN. WHEN OPEN 90

DEGREES. - THE GLASS SPECS SHOULD BE: U-FACTOR - U 0.32 , OITC 32.

	Report #:	L0242-116-45
Intertek	Date:	6/17/2020
Total Quality. Assured.	Verified by:	Depice J. Like

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9			<u> </u>

1 1" SOLARBAN 60 1/4" OVER 1/4" CLEAR TEMPERED.

- VERIFY ALL OPENINGS IN FIELD PRIOR TO FABRICATION.

- WINDOW HANDLES DOES NOT EXCEED 48" MAX. FROM THE CENTERLINE OF HANDLE ABOVE FINISHED FLOOR (AFF).

	ARCHITECT:	
	PREPARED BY:	1
	Alex Glass	
ALEX GLAS	S CONSTRUCTIO	DN CORP
2800 Coyl www.a	e Street, Suite 280, Bro NEW YORK, 11235 alexglassconstruction.o	ooklyn, com
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	New York	
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	CLIENT:	
	ARCHITECT:	
	Alex Glass	
	Construction	
ALEX GLASS 2800 Coyle	Street, Suite 280, Brook	I CORP. klyn,
www.al	exglassconstruction.com	<u>n</u>
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	12 OF 13	

MARK	COUNT	WIDTH	HEIGHT	TYPE	U-FACTOR	SHG C	DESCRIPTION
W1		6'-0"	7'-0"	WINDOW			W-72 window system
W2	1	7'-0"	7'-0"	WINDOW			W-72 window system
W3	11	3'-0"	7'-0"	WINDOW			W-72 window system
W4	5	13'-0"	9'-0"	WINDOW			W-72 window system
W5	1	13'-0"	7'-0"	WINDOW			W-72 window system
W6	5	7'-0"	9'-0"	WINDOW			W-72 window system
W7	1	9'-6"	9'-0"	WINDOW			W-72 window system
W8	1	15'-0"	9'-0"	WINDOW			W-62 window system
W11	6	3'-0"	7'-0"	WINDOW			W-72 window system
TOTAL:	70						

WINDOWS SCHEDULE

						CLIENT:	
						ARCHITECT:	
					ALEX GLASS 2800 Coyle www.al PR	PREPARED BY: Alex Glass Construction CONSTRUCTIO Street, Suite 280, Bro NEW YORK, 11235 exglassconstruction.co COJECT ADDRESS:	N CORP.
	NOTES					New York	
)	1638.0 SF				DATE	REVISION	#
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	intertek	Report #:	L0242-116-4	5	DRAWING	∾: 	SIZE: D
	Total Quality. Assured.	Verified by:				13 OF 13	

1 HEAD SILL, SIDE JAMBS MOLDING **L** EXTRUSION W72.0102E MATERIAL: EXTRUDED ALUMINIUM WITH THERMAL BREAK SCALE: 2' = 1'-0"

SASH MOLDING EXTRUSION W72.0201E MATERIAL: EXTRUDED ALUMINIUM WITH THERMAL BREAK

SCALE: 2' = 1'-0"

C48.0611

	Report #:	L0242-116-45
Intertek	Date:	6/17/2020
Total Quality. Assured.	Verified by:	Frie J. Like

B	17 Emmons Avenu rooklyn, NY 11235	e				
ARCHITECT: ZPROEKT ARCHITECTURE PLANNING CONSULTING						
181	7 Emmons Avenue	9				
Br	PREPARED BY					
ALEX GLAS 2800 Coyl	Alex Glass Construction S CONSTRUCTIO e Street, Suite 280, Bro NEW YORK, 11235	N COR				
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CLIENT:

7/8"

6 EXTERIOR GASKET FRK29-01 MATERIAL: RUBBER SCALE: 4' = 1'-0"

	RYBA 1817 Brod	AK Development Emmons Avenue oklyn, NY 11235	
	ARCHIT C 1817 I Broo P ALEX GLASS C 2800 Coyle S NE www.alex	ARCHITECT: ZPROEKT ECTURE PLANNIN CONSULTING Emmons Avenue oklyn, NY 11235 REPARED BY: Alex Glass Construction CONSTRUCTION Street, Suite 280, Broo EW YORK, 11235 xglassconstruction.co	G I CORP. klyn, m
1 7/8"	101 ea	st 2nd Stre Iew York	et,
	DATE	REVISION	#
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	DATE: 06.03	3.2020	
SCALE: 4' = 1'-0"	DRAWN BY	:	
	CHECKED B	Y:	
Report #: L0242-116-45 Intel quality Assured Date: 6/17/2020	DRAWING P	No: s 3.00	JZE: D
Verified by: Like Street		02.05.07	

03 OF 07

CLIENT:

12

CORNER KEY EXTRUSION W62.0952-03 (10812200) MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"

CORNER KEY EXTRUSION W62.0953-02 (10812500) MATERIAL: EXTRUDED ALUMINIUM 14

SCALE: 2' = 1'-0"

16

TRANSOM EXTRUSION W72.0301E MATERIAL: EXTRUDED ALUMINIUM WITH SCALE: 2' = 1'-0"

	Report #:	L0242-116-45
Intertek	Date:	6/17/2020
Total Quality. Assured.	Verified by:	Frie J. Like

RYE 1817	3AK Developmer 7 Emmons Aven	nt ue
Bro	ooklyn, NY 1123	5
ARCHI 1817	ARCHITECT: ZPROEKT TECTURE PLANN CONSULTING ' Emmons Avenu	ING Ie
Bro	oklyn, NY 11235	;
	PREPARED BY: Alex Glass Construction	
ALEX GLASS 2800 Coyle	Street, Suite 280, Bi	ON CORP.
www.al	exglassconstruction	.com
101 ea	ast 2nd Str New York	eet,
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CLIENT:

Profiles					
Quantity (PU)	Drawing	Number	Finish Inside/Outside	Description	Stock
1 x 21.3 ft (16.0)		108085806	E6/EV1	Rod profile	
3 x 21.3 ft (46.1)		C48.0607	RAL 9006	Glass bead/Glass stop profile	
2 x 21.3 ft (26.0)		W72.0102E	RAL 9006/RAL 9005	Frame profile	
2 x 21.3 ft (31.0)		W72.0201E	RAL 9006/RAL 9005	Sash profile	
1 x 21.3 ft (5.7)		W72.0301E	RAL 9006/RAL 9005	Transom profile	
1 x 21.3 ft (6.8)		W72.0302E	RAL 9006/RAL 9005	Transom profile	

17 PROFILES

Orde	er

	42-116-45
Intertek Date: 6,	/17/2020
Total Quality. Assured. Verified by: Image: Comparison of the provided statement of the pro	J. Like

Brooklyn, NY 11235 ARCHITECT: ZPROEKT ARCHITECTURE PLANNING CONSULTING 1817 Emmons Avenue Brooklyn, NY 11235 PREPARED BY: PREPARED BY: Alex Glass Construction ALEX GLASS CONSTRUCTION C 2800 Coyle Street, Suite 280, Brooklyn NEW YORK, 11235 www.alexglassconstruction.com PROJECT ADDRESS: 101 east 2nd Street New York DATE DATE REVISION DATE ADATE A	COF yn, t,
ARCHITECT: ZPROEKT ARCHITECTURE PLANNING CONSULTING 1817 Emmons Avenue Brooklyn, NY 11235 PREPARED BY: PREPARED BY: Alex Glass Construction ALEX GLASS CONSTRUCTION C 2800 Coyle Street, Suite 280, Brooklyn WY VORK, 11235 www.alexglassconstruction.com PROJECT ADDRESS: 101 east 2nd Street New York DATE DATE ADATE CUENT'S SIGNATURE DATE DATE ALL RIGHTS RESERVED	COF yn, t,
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DATE: 06.03.2020	
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RYBAK Development

Hardware				
Quantity (PU)	Drawing	Number	Finish	Description
2 pc		13153300		Locking element
2 pc		13233600		T-receiver
1 pc		13232432	RAL9005	Handle Roto Line
1 pc		13232431	RAL9006	Handle Roto Line
1 pc		13230531	RAL9006	Kit hinge p/o 90/130 kg
1 pc		13230532	RAL9005	Kit hinge p/o 90/130 kg
2 pc		13230300		Scissors 600
2 pc		13230100		Set of locking elements
2 pc		13230800		MV switch kit
2 pc		13230900		Striker
2 pc		13233100		Support plate
Quantity (PU)	Drawing	Number	Finish	Description
8 pc (1 PU @ 200)	P	10813600		Corner insert
Gaskets				
Quantity	Drawing	Number	Finish	Description
(PU) 32 ft (1 PU @ 1 640)		10821100		Rubber gasket
46 ft (1 PU @ 1,312)		10415900		Rubber gasket
46 ft (1 PU @ 1,312)		10415500		Rubber gasket
32 ft (1 PU @ 164)	Á	10820400		Rubber gasket
32 ft (1 PU @ 1,886)		10821000		Rubber gasket
47 ft (1 PU @ 591)		10910900		Frame ledge sealing

Stock	Order

Stock	Order	

Stock	Order

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Quantity (PU)	Drawing	Number	Finish	Description	Stock	Order
2 pc (1 PU @ 100 pc)		10807300		Corner		
Accessories						
Quantity (PU)	Drawing	Number	Finish	Description	Stock	Order
20 pc (1 PU @ 1,000)		11213700		Leveling plate		
20 pc (1 PU @ 1,000)		11213900		Leveling plate		
48 pc (1 PU @ 100)		18112400		Pin		
8 pc (1 PU @ 100)		10827400	black	Water drain stop plug		
16 pc (1 PU @ 100)		10915200		Rubber corner		
8 pc (1 PU @ 500)	T	10820500		Rubber corner		
12 pc (1 PU @ 120)	June Sa	10816900		Clamping corner		
6 Pair (1 PU @ 120)		10819000		Clamping corner		
4 pc (1 PU @ 160)		10818600		Plate		
2 pc (1 PU @ 160)		10818700		Plate		
20 pc (1 PU @ 100)		10819200		Bearing plate		
8 pc (1 PU @ 200)		10811500		Transom bar fitting insert		
4 pc (1 PU @ 100)		10811600		Transom bar fitting insert		
8 pc (1 PU @ 400)		10811900		Corner insert		
8 pc (1 PU @ 100)		10812200		Corner insert		
4 pc (1 PU @ 200)		10812400		Corner insert		
4 pc (1 PU @ 100)		10812500		Corner insert		
					Done at #	10242 440 45
				intertek	Report #:	6/17/2020
				Total Quality. Assured.	Verified by:	ic I Lit
					Digitally	Signed by: Eric S. Leitner

RYBAK Development 1817 Emmons Avenue Brooklyn, NY 11235					
1817	CONSULTING	J			
Bro	oklyn, NY 11235				
	PREPARED BY:				
	Alex Glass Construction				
ALEX GLASS 2800 Coyle	CONSTRUCTION Street, Suite 280, Brook IEW YORK, 11235	CORP.			
PR	OJECT ADDRESS:	<u> </u>			
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	DRAWING TITLE:				
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REVIEWED BY PROJECT MANAGER					
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TEST REPORT FOR ALEX GLASS CONSTRUCTION CORP.

Report No.: L0242.01-116-45 R0 Date: 06/17/20

SECTION 8

REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01R0	06/17/20	N/A	Original Report Issued to Alex Glass