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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

TEST DATE
06/17/20

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06/17/20

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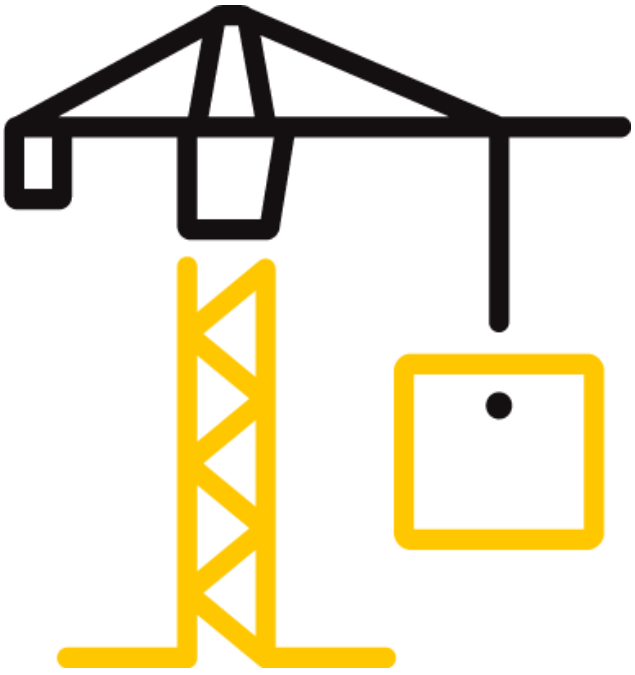

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Report No.: L0242.01-116-45 R0
Date: 06/17/20

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
TITLE:	Manager - Thermal Testing & Simulations	**TITLE:**	Simulation Technician
SIGNATURE:	Digitally Signed by: Eric S. Leitner	**SIGNATURE:**	Digitally Signed by: Allison Ford
DATE:	06/17/20	**DATE:**	06/17/20

ESL:esl

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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 three-dimensional heat flow that might occur at the corners of an assembly.

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SECTION 4
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			
TYPE	***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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SECTION 6
SIMULATION RESULTS

U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)	
Elevation Description	GL1 - 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**
Frame	Fixed Head	0.396	2.434	69.566	1.176	0.466	0.044	0.000
	Fixed/Operable Sill	0.437	2.335	69.566	1.128	0.492	0.047	0.000
	Left Jamb	0.384	2.434	21.615	0.365	0.140	0.013	0.000
	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
Edge	Fixed Head	0.314	2.500	61.182	1.062	0.333	0.412	0.748
	Fixed/Operable Sill	0.316	2.500	61.182	1.062	0.336	0.412	0.748
	Left Jamb	0.311	2.500	16.731	0.290	0.090	0.113	0.205
	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
Glass	COG - GL1	0.309	14.231	53.682	5.305	1.641	2.057	3.736
	SHGC - GL1	0.388						
	VT - GL1	0.704						

Sums:	12.000	4.068	3.433	5.989

Total Product Calculations	
U-Factor:	0.339
SHGC:	0.286
VT:	0.499

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SIMULATION RESULTS

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**
Frame	Fixed/Operable Head	0.381	2.335	67.991	1.103	0.420	0.040	0.000
	Sill	0.387	4.009	67.991	1.893	0.732	0.069	0.000
	Left Jamb	0.388	4.009	56.828	1.582	0.613	0.058	0.000
	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
Edge	Fixed/Operable Head	0.311	2.500	54.883	0.953	0.296	0.369	0.671
	Sill	0.313	2.500	54.883	0.953	0.298	0.369	0.671
	Left Jamb	0.312	2.500	51.156	0.888	0.277	0.344	0.625
	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
Glass	COG - GL1	0.309	48.656	47.383	16.010	4.951	6.209	11.274
	SHGC - GL1	0.388						
	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
SIMULATION RESULTS

U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)	
Elevation Description	GL2 - 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**
Frame	Fixed Head	0.387	2.434	69.566	1.176	0.455	0.043	0.000
	Fixed/Operable Sill	0.426	2.335	69.566	1.128	0.481	0.046	0.000
	Left Jamb	0.374	2.434	21.615	0.365	0.137	0.013	0.000
	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
Edge	Fixed Head	0.276	2.500	61.182	1.062	0.293	0.409	0.748
	Fixed/Operable Sill	0.279	2.500	61.182	1.062	0.296	0.409	0.748
	Left Jamb	0.274	2.500	16.731	0.290	0.079	0.112	0.205
	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
Glass	COG - GL2	0.262	14.231	53.682	5.305	1.390	2.042	3.736
	SHGC - GL2	0.385						
	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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SECTION 6
SIMULATION RESULTS

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**
Frame	Fixed/Operable Head	0.371	2.335	67.991	1.103	0.409	0.039	0.000
	Sill	0.381	4.009	67.991	1.893	0.721	0.068	0.000
	Left Jamb	0.382	4.009	56.828	1.582	0.604	0.057	0.000
	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
Edge	Fixed/Operable Head	0.273	2.500	54.883	0.953	0.260	0.367	0.671
	Sill	0.275	2.500	54.883	0.953	0.262	0.367	0.671
	Left Jamb	0.274	2.500	51.156	0.888	0.244	0.342	0.625
	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
Glass	COG - GL2	0.262	48.656	47.383	16.010	4.194	6.163	11.274
	SHGC - GL2	0.385						
	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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SECTION 6
SIMULATION RESULTS

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**
Frame	Fixed Head	0.397	2.434	69.566	1.176	0.466	0.044	0.000
	Fixed/Operable Sill	0.437	2.335	69.566	1.128	0.493	0.047	0.000
	Left Jamb	0.385	2.434	21.615	0.365	0.140	0.013	0.000
	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
Edge	Fixed Head	0.315	2.500	61.182	1.062	0.334	0.398	0.721
	Fixed/Operable Sill	0.317	2.500	61.182	1.062	0.337	0.398	0.721
	Left Jamb	0.312	2.500	16.731	0.290	0.091	0.109	0.197
	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
Glass	COG - GL3	0.311	14.231	53.682	5.305	1.648	1.987	3.603
	SHGC - GL3	0.375						
	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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SIMULATION RESULTS

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**
Frame	Fixed/Operable Head	0.381	2.335	67.991	1.103	0.420	0.040	0.000
	Sill	0.387	4.009	67.991	1.893	0.733	0.069	0.000
	Left Jamb	0.388	4.009	56.828	1.582	0.614	0.058	0.000
	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
Edge	Fixed/Operable Head	0.312	2.500	54.883	0.953	0.297	0.357	0.647
	Sill	0.314	2.500	54.883	0.953	0.299	0.357	0.647
	Left Jamb	0.313	2.500	51.156	0.888	0.278	0.333	0.603
	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
Glass	COG - GL3	0.311	48.656	47.383	16.010	4.974	5.998	10.874
	SHGC - GL3	0.375						
	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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SIMULATION RESULTS

U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)	
Elevation Description	GL4 - 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**
Frame	Fixed Head	0.387	2.434	69.566	1.176	0.455	0.043	0.000
	Fixed/Operable Sill	0.426	2.335	69.566	1.128	0.481	0.046	0.000
	Left Jamb	0.375	2.434	21.615	0.365	0.137	0.013	0.000
	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
Edge	Fixed Head	0.277	2.500	61.182	1.062	0.294	0.395	0.721
	Fixed/Operable Sill	0.280	2.500	61.182	1.062	0.297	0.395	0.721
	Left Jamb	0.275	2.500	16.731	0.290	0.080	0.108	0.197
	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
Glass	COG - GL4	0.264	14.231	53.682	5.305	1.398	1.972	3.603
	SHGC - GL4	0.372						
	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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SECTION 6
SIMULATION RESULTS

U-FACTOR CALCULATIONS (7 Cross Section Product - GWCW, GWWW)	
Elevation Description	GL4 - 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**
Frame	Fixed/Operable Head	0.381	2.335	67.991	1.103	0.420	0.040	0.000
	Sill	0.381	4.009	67.991	1.893	0.722	0.068	0.000
	Left Jamb	0.382	4.009	56.828	1.582	0.604	0.057	0.000
	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
Edge	Fixed/Operable Head	0.312	2.500	54.883	0.953	0.297	0.354	0.647
	Sill	0.276	2.500	54.883	0.953	0.263	0.354	0.647
	Left Jamb	0.276	2.500	51.156	0.888	0.245	0.330	0.603
	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
Glass	COG - GL4	0.264	48.656	47.383	16.010	4.220	5.953	10.874
	SHGC - GL4	0.372						
	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.

DRAWINGS LEGENDS

CONCRETE
GLASS
ALUMINUM
RUBBER
PLYWOOD
STRUCTURAL SILICONE
STEEL IN SECTION
CAULKING
GLASS IN SECTION
WATER BARIER
RIGID INSULATION
WINDOW FOAM
BATT INSULATION
INSULATED METAL PANEL
BRICK
GYPSUM WALLBOARD
REVISION COLOR
NOTE COLOR

DENOTES BLOCKING OR SHIM NOT CONTINUOUS AND NOT NECESSARILY ONE PIECE AND NOT BY PERA CONSTRUCTION

DENOTES BACKER ROD OR CAULK ROPE

DIMENSIONAL REFERENCE / ELEVATION

WORKING POINT

S — FIELD APPLIED SEALANT

SD — SHOP DRILLED

FD — FIELD DRILLED

1 — GLAZING INDICATION NUMBER

1 — ELEVATION NUMBER

A — REVISION MARK

1 — DETAIL NUMBER

ELEVATION LOCATION-VIEWPOINT
1 / A-300 — ELEVATION MARK / TITLE, ELEVATION SHEET NUMBER

D1 — DOOR TYPE, DOOR NUMBER

W1 — WINDOW TYPE, WINDOW NUMBER

FINISH SCHEDULE

ALL FINISHES: RAL-9004 (SIGNAL BLACK)

GLASS SCHEDULE

1 — 1/4" CLEAR TEMPERED LOW-E + 1/2" AIR GAP + 1/4" CLEAR TEMPERED.

MATERIALS USED / AVAILABILITY

MATERIAL	MANUFACTURER	LEAD TIME
TEMPERED GLASS	LOCAL SUPPLIER	TBA
HARDWARE	IMPORTED	TBA
WINDOW AND DOOR COMPONENTS	IMPORTED	TBA

PROJECT:101 EAST 2ND STREET, NEW YORK
CONTRACT #:

SUBJECT: WINDOWS& DOORS SHOP DRAWINGS

SUPPLY AND INSTALL ALUMINTECHNO W62 SERIES WINDOWS, DOORS

SHEET INDEX

NUMBER	DESCRIPTION	NUMBER	DESCRIPTION
A-000.00	COVER SHEET		
A-100.00	1ST FLOOR PLAN		
A-101.00	2ND FLOOR PLAN		
A-102.00	3RD THRU 6TH FLOOR PLAN		
A-103.00	7TH FLOOR PLAN		
A-200.00	FRONT ELEVATION		
A-201.00	REAR ELEVATION		
A-202.00	LEFT ELEVATION		
A-203.00	RIGHT ELEVATION		
A-400.00	EXTERIOR WINDOW ELEVATIONS		
A-401.00	TYPICAL CLIPS LOCATIONS		
A-500.00	WINDOWS SECTIONS		
A-600.00	WINDOWS SCHEDULE		

GENERAL NOTES

1. ALEX GLASS CORP. WILL ASSUME NO RESPONSIBILITY FOR ERROR RESULTING FROM THE USE OF THESE DRAWINGS BY OTHER TRADES.
2. THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH ALEX GLASS CORP. QUOTATION OR PER ACCEPTED CHANGE ORDER(S) AND OTHER APPLICABLE CONTRACT DOCUMENTS.
3. THESE DRAWINGS REPRESENT ALEX GLASS CORP. INTERPRETATION OF THE APPLICATION OF PRODUCTS TO THIS PROJECT IN FUNCTIONAL COMPLIANCE WITH THE ARCHITECT'S DRAWINGS AND SPECIFICATIONS.
4. PROJECT MATERIALS MUST BE PROTECTED IMMEDIATELY FROM STAINING BY WET CARDBOARD PAPER AND FROM THE ACTION OF HARSH ALKALIS AND SAND IN CONCRETE, STUCCO, MORTAR OR PLASTER. THE SETTING OF THE PROJECT MATERIALS REQUIRES G.C. TO CLOSELY SUPERVISE OTHER TRADES SO AS TO PREVENT MARRING OR DISCOLORATION OR ANY OTHER DAMAGE FROM ANY CAUSE.
5. ALL GASKET JOINTS, BUTT JOINTS, LAP JOINTS, HEEL BEADS, TOE BEADS AND CAP BEADS SHOULD BE SEALED WATERTIGHT FOLLOWING SEALANT MANUFACTURER RECOMMENDATIONS AS TO SIZE, METHOD OF APPLICATION AND COMPATIBILITY WITH ADJOINING MATERIAL.
6. ALL GLASS AND FINISHED MATERIALS MUST BE PROTECTED DURING WELDING OPERATIONS, FIREPROOFING OR ANY OTHER PROCESS THAT MAY BE HARMFULL TO THE APPEARANCE OR PERFORMANCE OF THE PROJECT MATERIALS.
7. THE ROUGH OPENING PROVIDED MUST BE SQUARE AND WITHIN SPECIFIED BUILDING TOLERANCE.
8. PERIMETER SUBSTRATE MUST BE CAPABLE OF WITHSTANDING REACTION FORCES IMPOSED BY WIND AND/OR DEAD LOAD. ALEX GLASS CORP. WILL NOT BE LIABLE FOR INSUFFICIENT SUBSTRATE AND/OR ANCHORING WHICH DEVIATES FROM THAT SHOWN.

ABBREVIATIONS

G.C. = GENERAL CONTRACTOR
V.I.F. = VERIFY IN FIELD
T.O.F.F. = TOP OF FINISH FLOOR
T.B.D. = TO BE DETERMINED
N.I.C. = NOT IN CONTRACT
N.T.S. = NOT TO SCALE
U.O.N. = UNLESS OTHERWISE NOTED
A.E. = APPROVED EQUAL
S.S.O. = SINGLE SWING OUT
D.S.O. = DOUBLE SWING OUT
S.S.I. = SINGLE SWING IN
D.S.I. = DOUBLE SWING IN
C.O.=CHANGE ORDER

LEFT BLANK FOR NOTES

NOTE:
- VERIFY ALL OPENINGS IN FIELD PRIOR TO FABRICATION.

intertek Total Quality. Assured.
Report #: L0242-116-45
Date: 6/17/2020
Verified by:

CLIENT:

ARCHITECT:

PREPARED BY:

Alex Glass Construction
ALEX GLASS CONSTRUCTION CORP.
2800 Coyle Street, Suite 280, Brooklyn, NEW YORK, 11235
www.alexglassconstruction.com

PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:
WINDOWS&DOORS

COVER SHEET

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

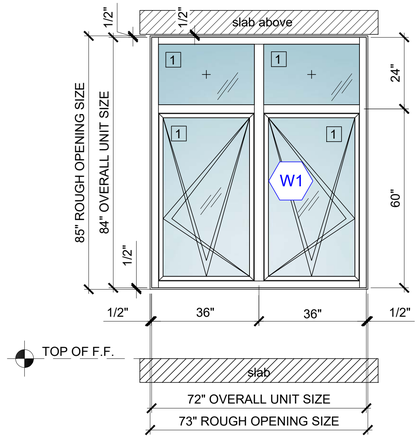
DATE: 04.07.2020

DRAWN BY:

CHECKED BY:

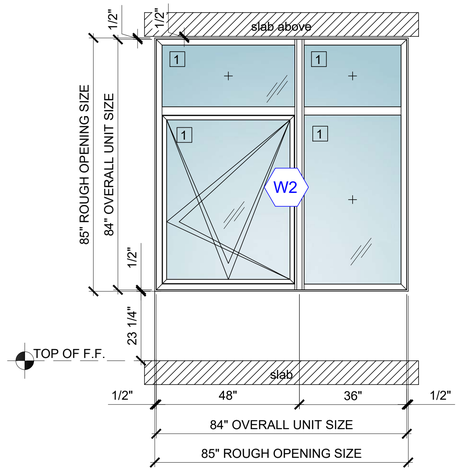
DRAWING No: **SIZE: D**

A-000.00



1 EXTERIOR WINDOW ELEVATION - TYPE W1.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 39.



2 EXTERIOR WINDOW ELEVATION - TYPE W2.

SCALE: 1/2" = 1'-0"
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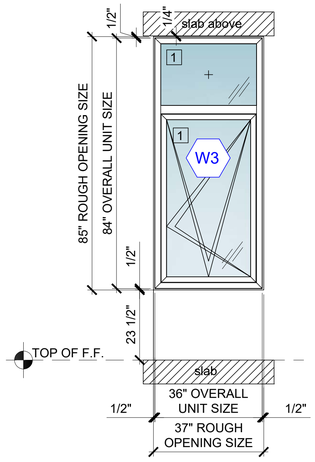
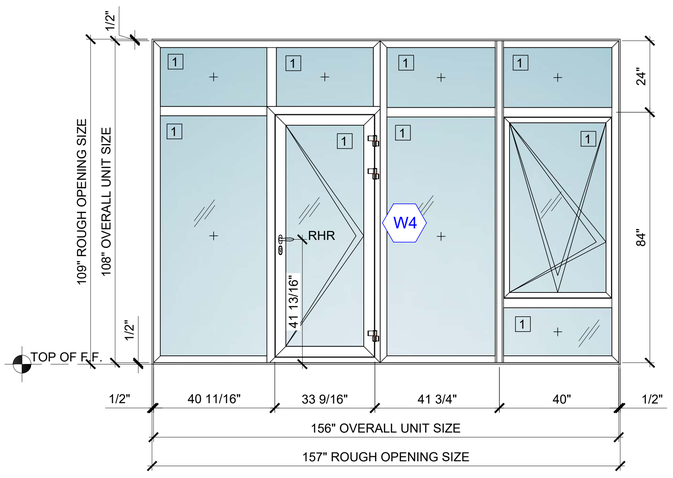


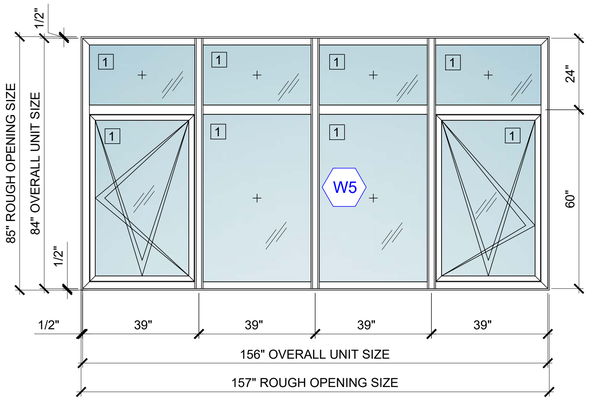
3 EXTERIOR WINDOW ELEVATION - TYPE W3.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 11.



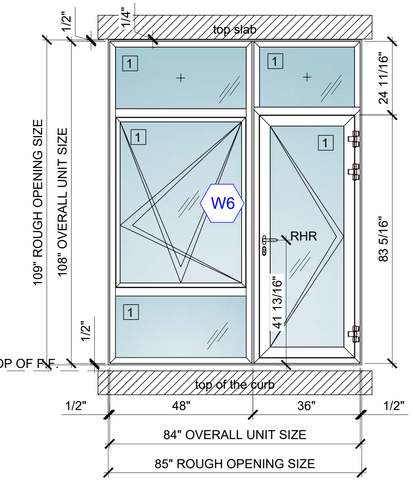
4 EXTERIOR WINDOW ELEVATION - TYPE W4.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 5.



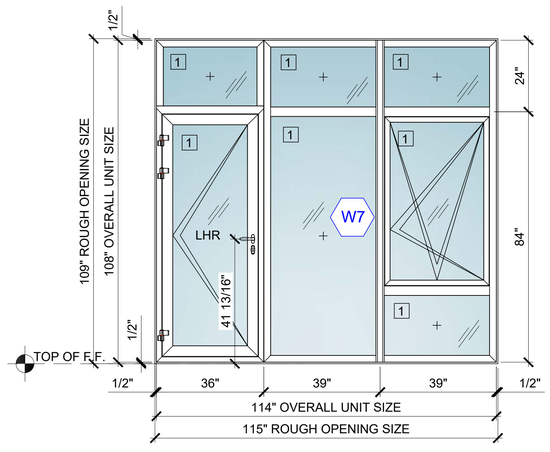
5 EXTERIOR WINDOW ELEVATION - TYPE W5.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 1.



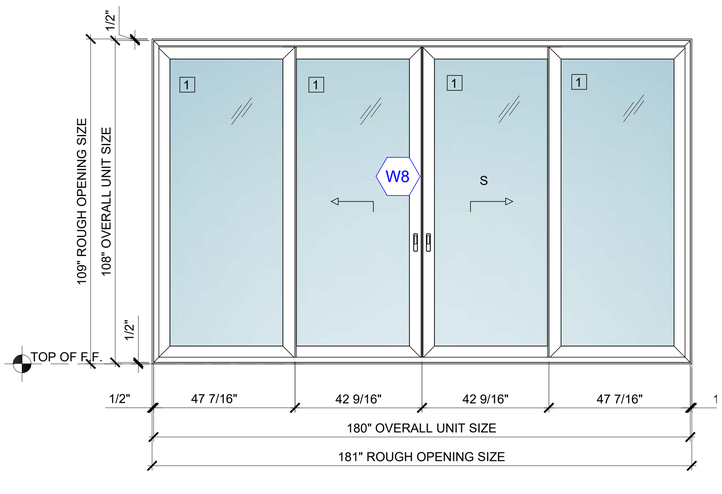
6 EXTERIOR WINDOW ELEVATION - TYPE W6.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 5.



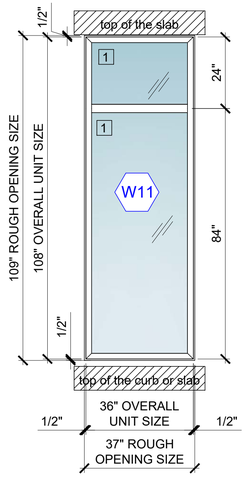
7 EXTERIOR WINDOW ELEVATION - TYPE W7.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 1.



8 EXTERIOR WINDOW ELEVATION - TYPE W8.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 1.



9 EXTERIOR WINDOW ELEVATION - TYPE W11.

SCALE: 1/2" = 1'-0"
TOTAL Q-TY 6.

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Report #: L0242-116-45
Date: 6/17/2020
Verified by:

GLAZING CHEDULE

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

NOTE:
- VERIFY ALL OPENINGS IN FIELD PRIOR TO FABRICATION.
- WINDOW HANDLES DOES NOT EXCEED 48" MAX. FROM THE CENTERLINE OF HANDLE ABOVE FINISHED FLOOR (AFF).
- 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.

CLIENT:

ARCHITECT:

PREPARED BY:

Alex Glass Construction
ALEX GLASS CONSTRUCTION CORP.
2800 Coyle Street, Suite 280, Brooklyn, NEW YORK, 11235
www.alexglassconstruction.com

PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ / _____ / _____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:
WINDOWS&DOORS

EXTERIOR WINDOW ELEVATIONS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

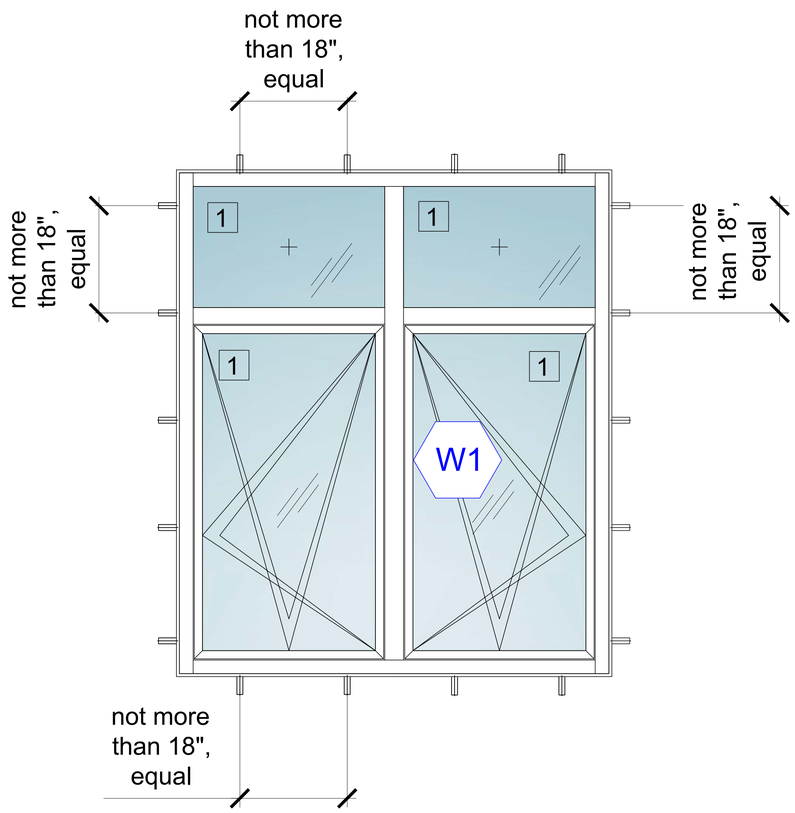
DATE: 04.07.2020

DRAWN BY:

CHECKED BY:

DRAWING No: **SIZE: D**

A-400.00



1 TYPICAL CLIPS LOCATION

SCALE: 3/4" = 1'-0"

intertek
Total Quality. Assured.

Report #: L0242-116-45
Date: 6/17/2020
Verified by:

GLAZING CHEDULE

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

NOTE:
- VERIFY ALL OPENINGS IN FIELD PRIOR TO FABRICATION.
- WINDOW HANDLES DOES NOT EXCEED 48" MAX. FROM THE CENTERLINE OF HANDLE ABOVE FINISHED FLOOR (AFF).
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- 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.

CLIENT:

ARCHITECT:

PREPARED BY:

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PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

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DRAWING TITLE:
WINDOWS&DOORS

TYPICAL CLIPS LOCATION

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

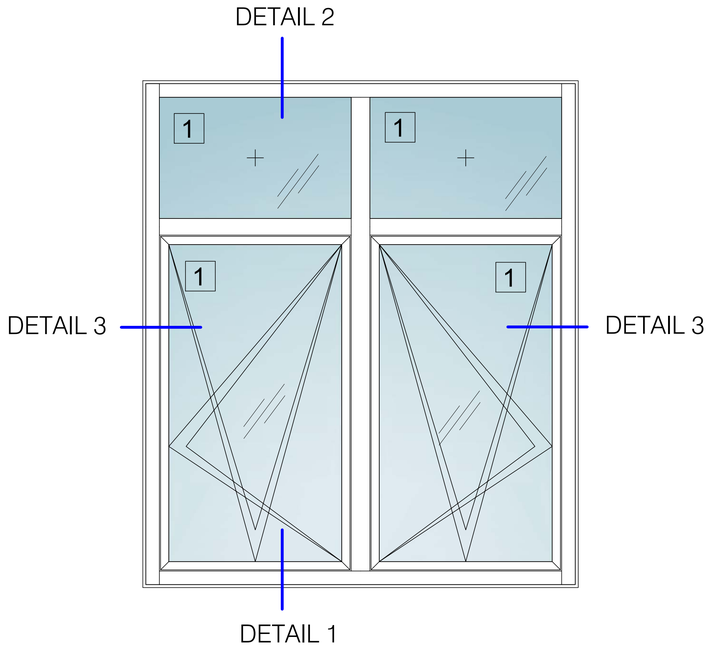
DATE: 04.07.2020

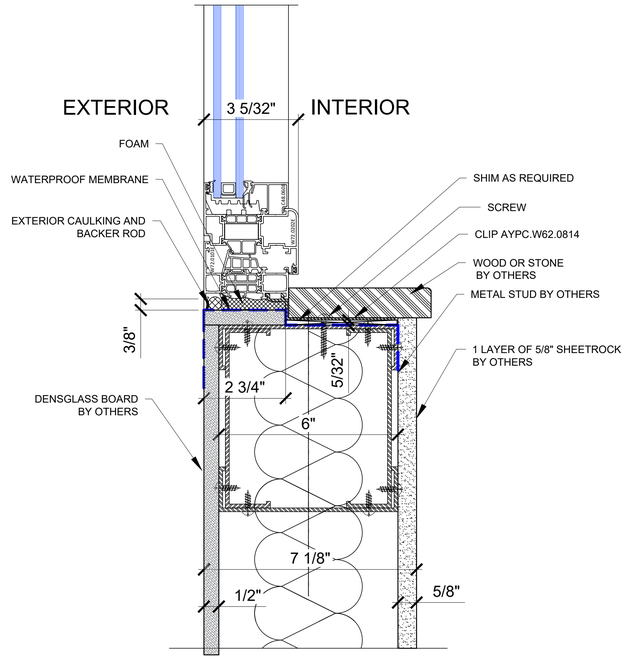
DRAWN BY:

CHECKED BY:

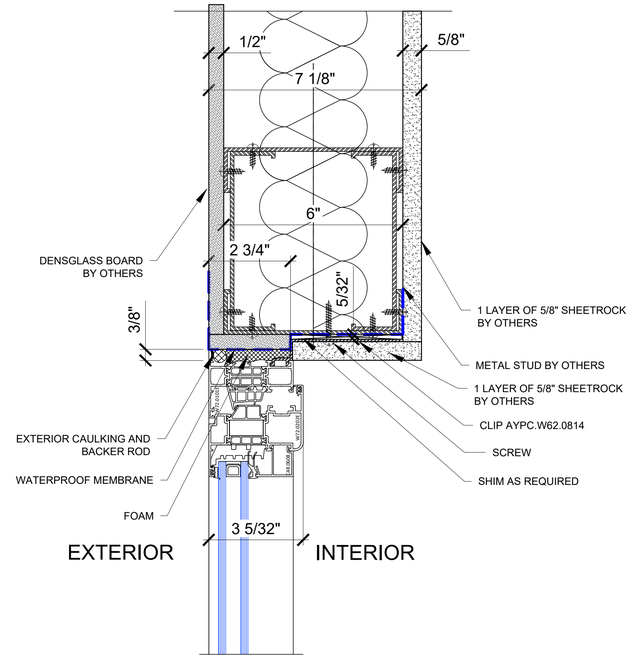
DRAWING No: **SIZE: D**

A-401.00

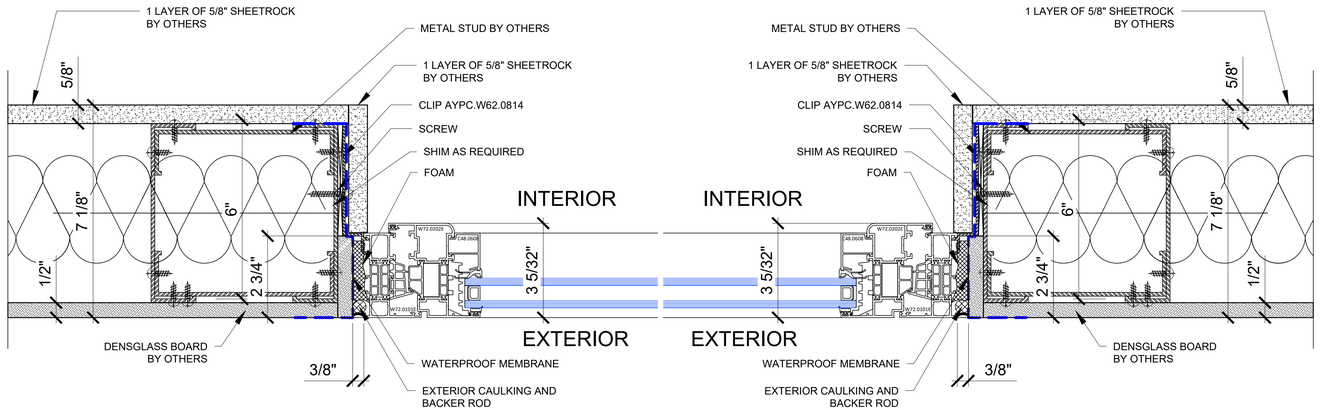




1 TYPICAL SECTION
SCALE: 5" = 1'-0"



2 TYPICAL SECTION
SCALE: 5" = 1'-0"



3 TYPICAL SECTION
SCALE: 5" = 1'-0"

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Report #: L0242-116-45
Date: 6/17/2020
Verified by:

CLIENT:

ARCHITECT:

PREPARED BY:

Alex Glass Construction

ALEX GLASS CONSTRUCTION CORP.
2800 Coyle Street, Suite 280, Brooklyn, NEW YORK, 11235
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PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:
WINDOWS&DOORS

WINDOW SECTIONS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

DATE: 04.07.2020

DRAWN BY:

CHECKED BY:

DRAWING No: **SIZE: D**

A-500.00

WINDOWS SCHEDULE

MARK	COUNT	WIDTH	HEIGHT	TYPE	U-FACTOR	SHG C	DESCRIPTION	NOTES
W1	..	6'-0"	7'-0"	WINDOW			W-72 window system	1638.0 SF
W2	1	7'-0"	7'-0"	WINDOW			W-72 window system	49.0 SF
W3	11	3'-0"	7'-0"	WINDOW			W-72 window system	231.0 SF
W4	5	13'-0"	9'-0"	WINDOW			W-72 window system	585.0 SF
W5	1	13'-0"	7'-0"	WINDOW			W-72 window system	91.0 SF
W6	5	7'-0"	9'-0"	WINDOW			W-72 window system	315.0 SF
W7	1	9'-6"	9'-0"	WINDOW			W-72 window system	85.5 SF
W8	1	15'-0"	9'-0"	WINDOW			W-62 window system	135.0 SF
W11	6	3'-0"	7'-0"	WINDOW			W-72 window system	126.0 SF
TOTAL:	70							3255.5 SF

1 **WINDOWS SCHEDULE**

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Report #: L0242-116-45
Date: 6/17/2020
Verified by:

CLIENT:

ARCHITECT:

PREPARED BY:

Alex Glass Construction

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2800 Coyle Street, Suite 280, Brooklyn, NEW YORK, 11235
www.alexglassconstruction.com

PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:
WINDOWS&DOORS

WINDOW SCHEDULE

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

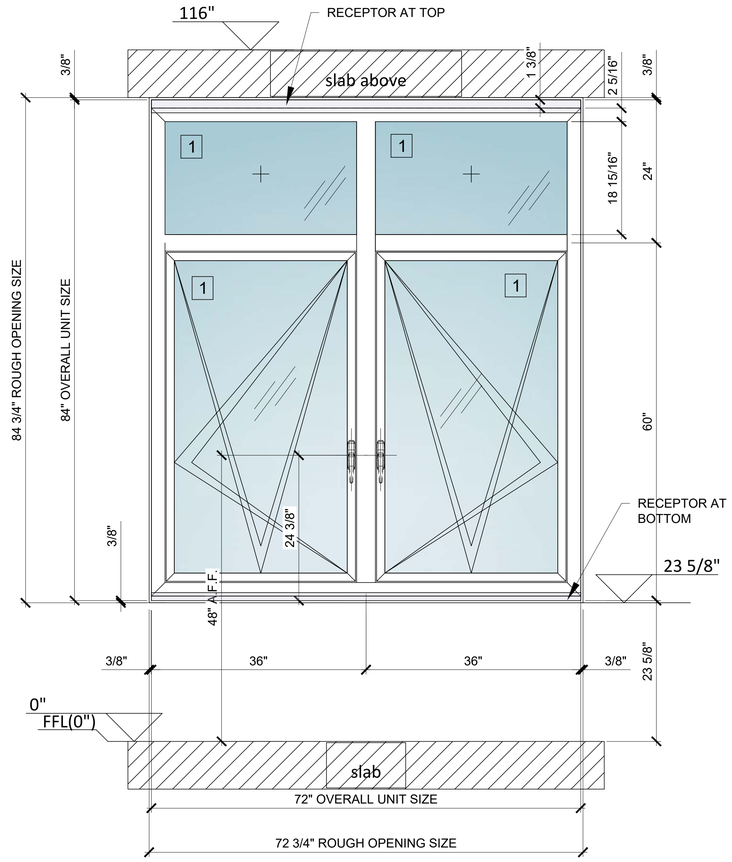
DATE: 04.07.2020

DRAWN BY:

CHECKED BY:

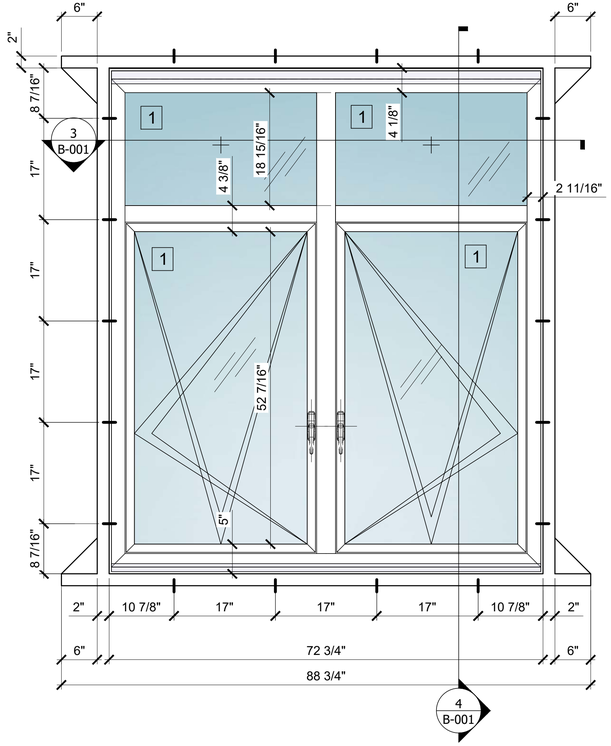
DRAWING No: **SIZE: D**

A-600.00



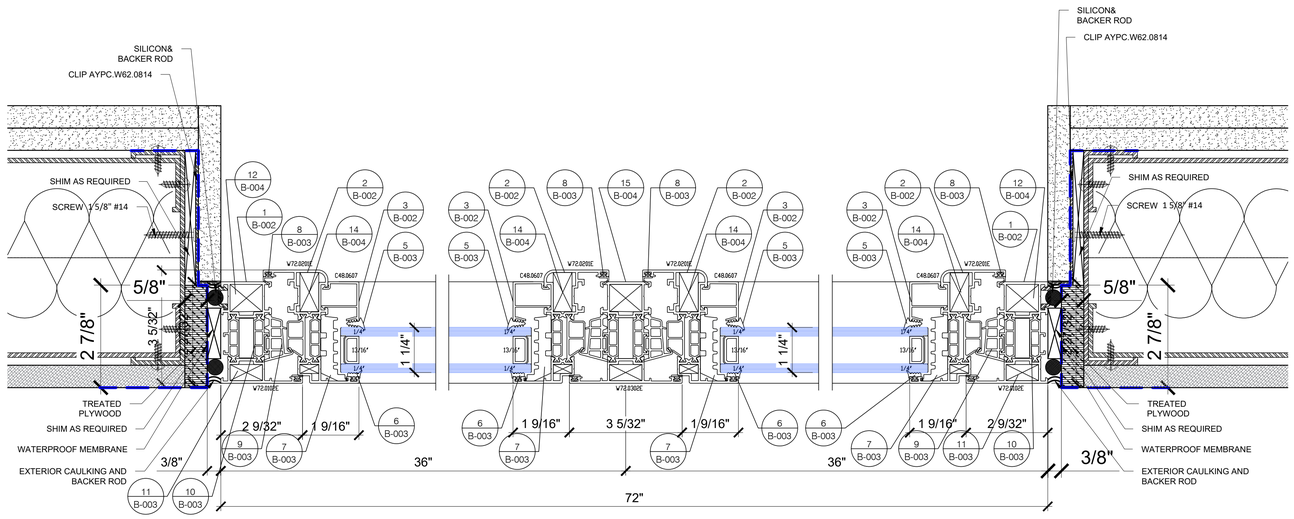
1 WINDOW ELEVATION. EXTERIOR VIEW

SCALE: 1" = 1'-0"



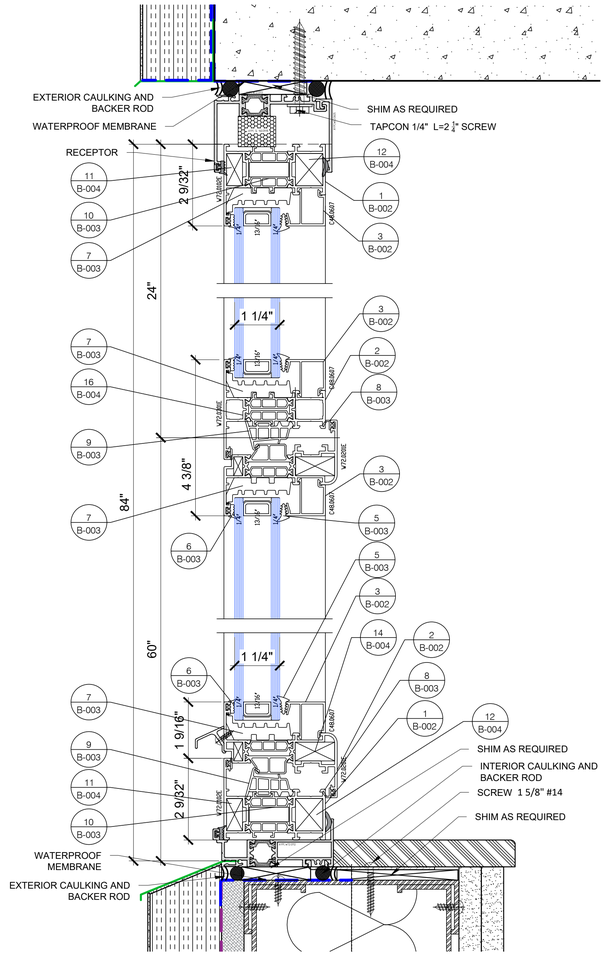
2 WINDOW ELEVATION. EXTERIOR VIEW

SCALE: 1" = 1'-0"



3 SECTION #1

SCALE: 1" = 1'-0"



4 SECTION #2

SCALE: 1" = 1'-0"

CLIENT:

RYBAK Development
1817 Emmons Avenue
Brooklyn, NY 11235

ARCHITECT:

ZPROEKT
ARCHITECTURE PLANNING CONSULTING
1817 Emmons Avenue
Brooklyn, NY 11235

PREPARED BY:

ALEX GLASS CONSTRUCTION CORP.
2800 Coyle Street, Suite 280, Brooklyn, NEW YORK, 11235
www.alexglassconstruction.com

PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ / _____ / _____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:

ASSEMBLY DRAWING AND SECTIONS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

DATE: 06.03.2020

DRAWN BY:

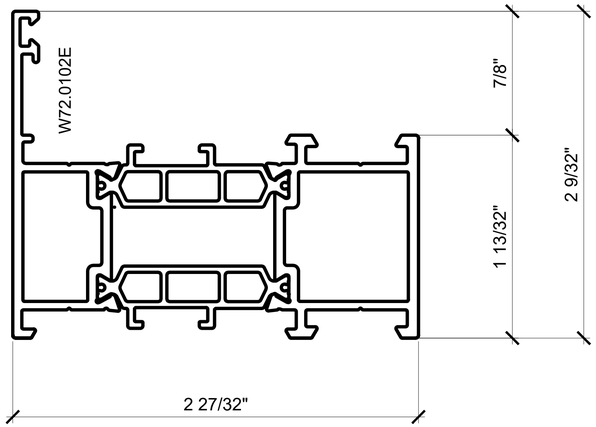
CHECKED BY:

DRAWING No: **SIZE: D**

B-001.00

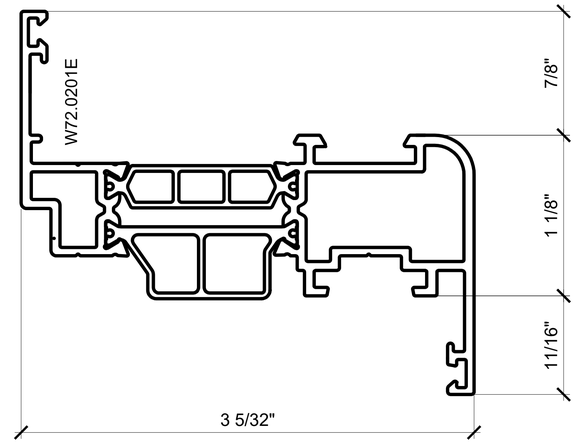
intertek Total Quality. Assured.

Report #: L0242-116-45
Date: 6/17/2020
Verified by:



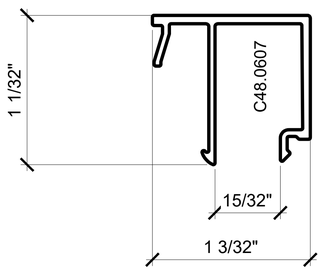
1 HEAD SILL, SIDE JAMBS MOLDING
EXTRUSION W72.0102E
MATERIAL: EXTRUDED ALUMINIUM WITH THERMAL BREAK

SCALE: 2' = 1'-0"



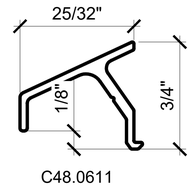
2 SASH MOLDING
EXTRUSION W72.0201E
MATERIAL: EXTRUDED ALUMINIUM WITH THERMAL BREAK

SCALE: 2' = 1'-0"



3 GLAZING BEAD
EXTRUSION C48.0607
MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"



4 WATER DEFLECTOR
EXTRUSION C48.0611
MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"

intertek
Total Quality. Assured.

Report #: L0242-116-45
Date: 6/17/2020
Verified by:

CLIENT:

RYBAK Development

1817 Emmons Avenue

Brooklyn, NY 11235

ARCHITECT:

ZPROEKT
ARCHITECTURE PLANNING
CONSULTING

1817 Emmons Avenue

Brooklyn, NY 11235

PREPARED BY:

Alex Glass Construction

ALEX GLASS CONSTRUCTION CORP.

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www.alexglassconstruction.com

PROJECT ADDRESS:

101 east 2nd Street, New York

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:

INDIVIDUAL FRAME AND SASH COMPONENTS SECTIONS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

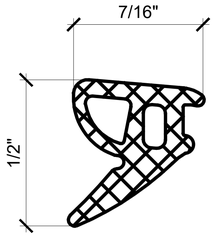
DATE: 06.03.2020

DRAWN BY:

CHECKED BY:

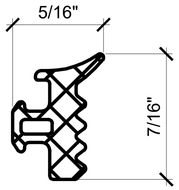
DRAWING No: **SIZE: D**

B-002.00



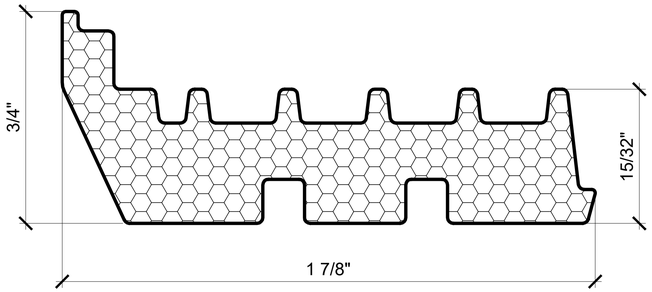
5 INTERIOR GASKET FRK67
MATERIAL: RUBBER

SCALE: 4' = 1'-0"



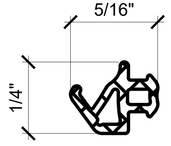
6 EXTERIOR GASKET FRK29-01
MATERIAL: RUBBER

SCALE: 4' = 1'-0"



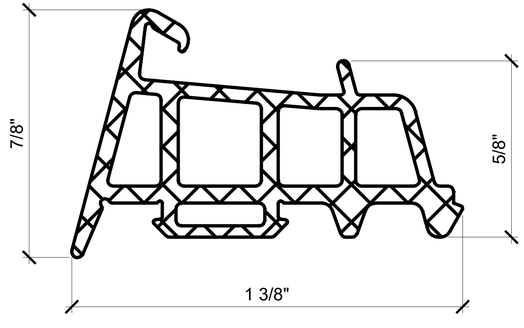
7 FOAM INSULATION W72.0911
MATERIAL: PU

SCALE: 4' = 1'-0"



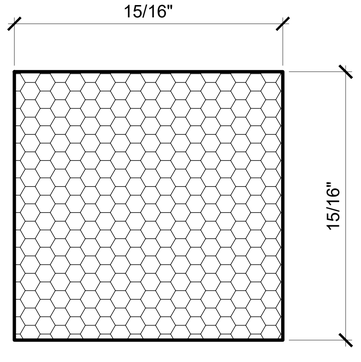
8 INTERIOR GASKET FRK98
MATERIAL: RUBBER

SCALE: 4' = 1'-0"



9 FRAME GASKET FRK63
MATERIAL: RUBBER

SCALE: 4' = 1'-0"



10 FOAM INSULATION
MATERIAL: PU

SCALE: 4' = 1'-0"

intertek
Total Quality. Assured.

Report #: L0242-116-45
Date: 6/17/2020
Verified by:

CLIENT:

RYBAK Development

1817 Emmons Avenue

Brooklyn, NY 11235

ARCHITECT:

ZPROEKT
ARCHITECTURE PLANNING
CONSULTING

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Brooklyn, NY 11235

PREPARED BY:

Alex Glass Construction

ALEX GLASS CONSTRUCTION CORP.

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NEW YORK, 11235
www.alexglassconstruction.com

PROJECT ADDRESS:

**101 east 2nd Street,
New York**

DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:

INDIVIDUAL FRAME AND SASH COMPONENTS SECTIONS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

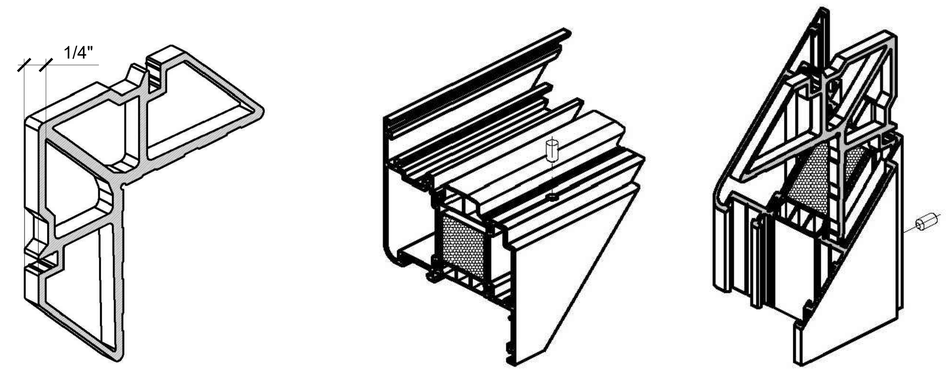
DATE: 06.03.2020

DRAWN BY:

CHECKED BY:

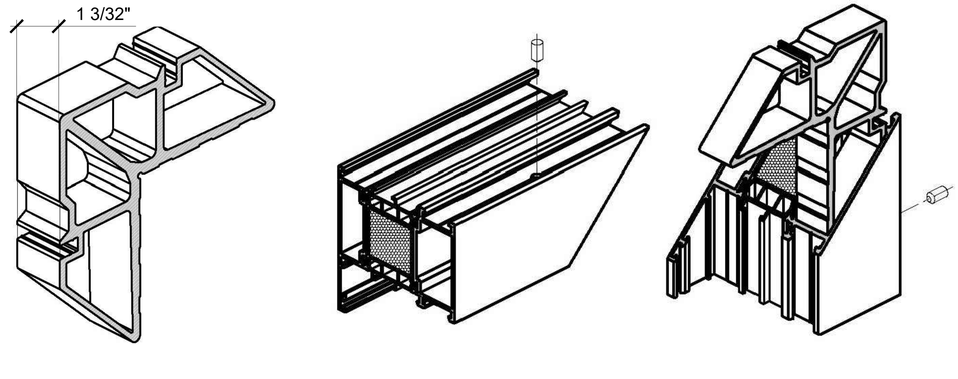
DRAWING No: **SIZE: D**

B-003.00



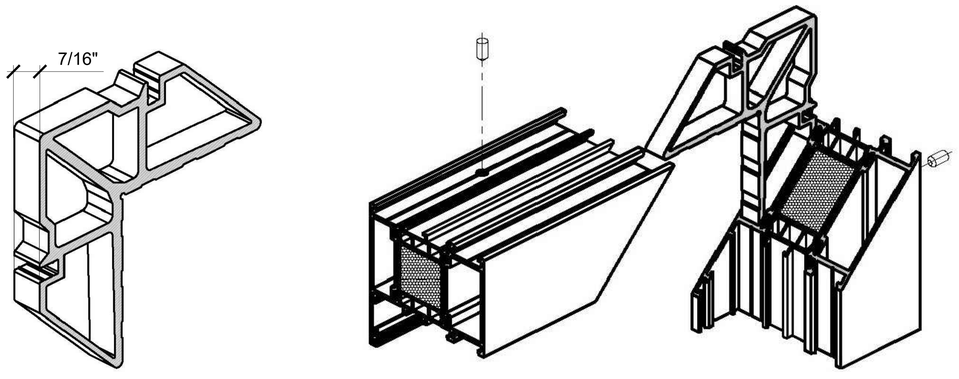
11 CORNER KEY EXTRUSION W62.0952 (1081900)
MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"



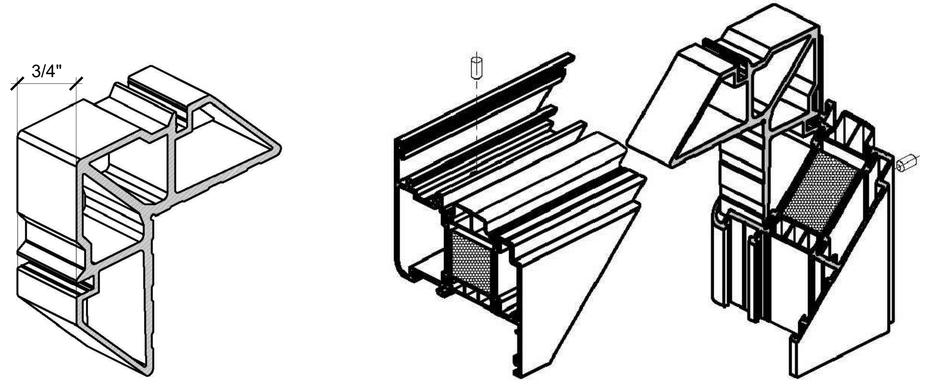
12 CORNER KEY EXTRUSION W62.0952-03 (10812200)
MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"



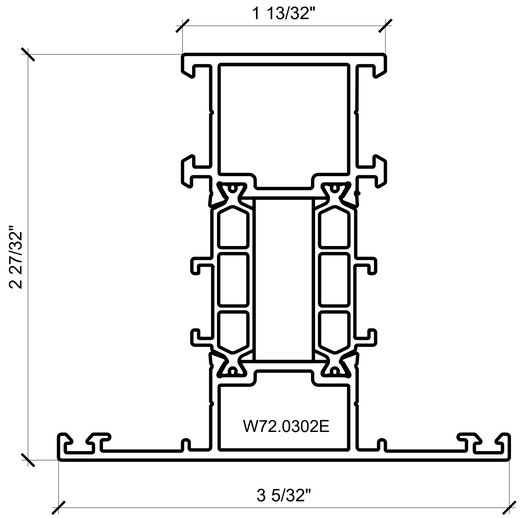
13 CORNER KEY EXTRUSION W62.0953-01 (10812400)
MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"



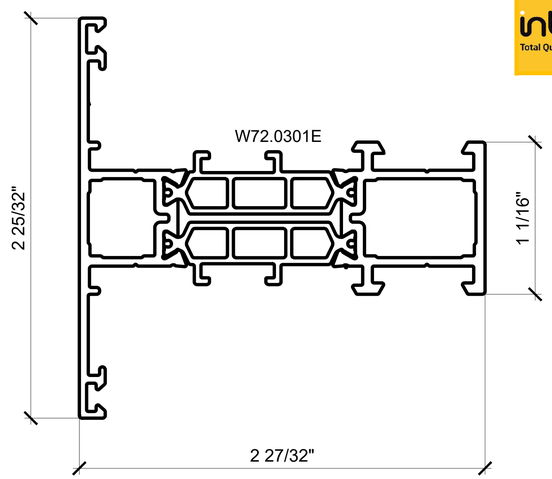
14 CORNER KEY EXTRUSION W62.0953-02 (10812500)
MATERIAL: EXTRUDED ALUMINIUM

SCALE: 2' = 1'-0"



15 TRANSOM EXTRUSION W72.0302E
MATERIAL: EXTRUDED ALUMINIUM WITH THERMAL BREAK

SCALE: 2' = 1'-0"



16 TRANSOM EXTRUSION W72.0301E
MATERIAL: EXTRUDED ALUMINIUM WITH THERMAL BREAK

SCALE: 2' = 1'-0"

intertek
Total Quality. Assured.

Report #: L0242-116-45
Date: 6/17/2020
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CLIENT:

RYBAK Development
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DATE	REVISION	#

APPROVED

CLIENT'S SIGNATURE _____

DATE _____ / _____ / _____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:

CORNER KEYS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

DATE: 06.03.2020

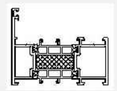
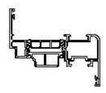
DRAWN BY:

CHECKED BY:

DRAWING No: **SIZE: D**

B-004.00

Profiles

Quantity (PU)	Drawing	Number	Finish Inside/Outside	Description	Stock	Order
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		

intertek
Total Quality. Assured.

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DATE _____ /_____ /_____

SPECIAL NOTES:

DO NOT SCALE DRAWINGS

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO ANY FABRICATION.

DRAWING TITLE:

PROFILES

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

DATE: 06.03.2020

DRAWN BY:

CHECKED BY:

DRAWING No: **SIZE: D**

B-005.00

Hardware

Quantity (PU)	Drawing	Number	Finish	Description	Stock	Order
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		

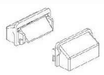
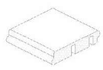
Quantity (PU)	Drawing	Number	Finish	Description	Stock	Order
8 pc (1 PU @ 200)		**10813600**		Corner insert		

Gaskets

Quantity (PU)	Drawing	Number	Finish	Description	Stock	Order
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)		**10820400**		Rubber gasket		
32 ft (1 PU @ 1,886)		**10821000**		Rubber gasket		
47 ft (1 PU @ 591)		**10910900**		Frame ledge sealing		

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)		**10820500**		Rubber corner		
12 pc (1 PU @ 120)		**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		

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DATE _____ /_____ /_____

SPECIAL NOTES:

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DRAWING TITLE:

HARDWARE DETAILS

REVIEWED BY PROJECT MANAGER

BY:_____ DATE:_____

NOTE:_____

DIMENSIONS FIELD VERIFIED

BY:_____ DATE:_____

NOTE:_____

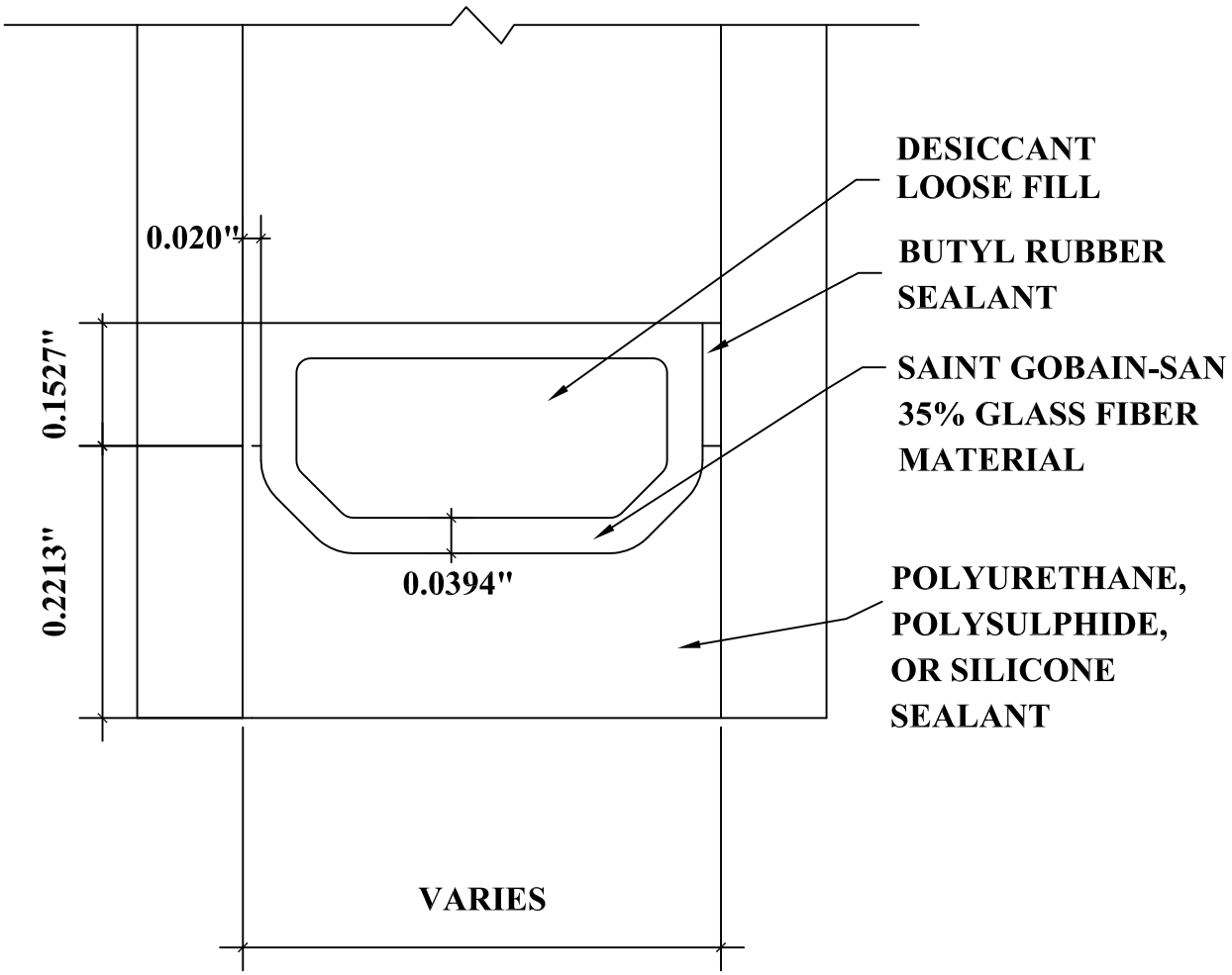
DATE: 06.03.2020

DRAWN BY:

CHECKED BY:

DRAWING No: **SIZE: D**

B-006.00



DETAIL FOR THERMAL MODELING OF
SAINT-GOBAIN SWISSPACER (TP-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	06/17/20	N/A	Original Report Issued to Alex Glass