

KENNEDY SKYLIGHTS

MODEL "SFG" CURB MOUNTED SELF-FLASHING GLASS SKYLIGHT
 IMPACT RATED FOR WIND ZONE 4, MISSILE LEVEL D IMPACT / NON-IMPACT
 NON-HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

FRANK BENNARDO, PE
 PE# 0046549 CA# 9885

OCTOBER 9, 2024

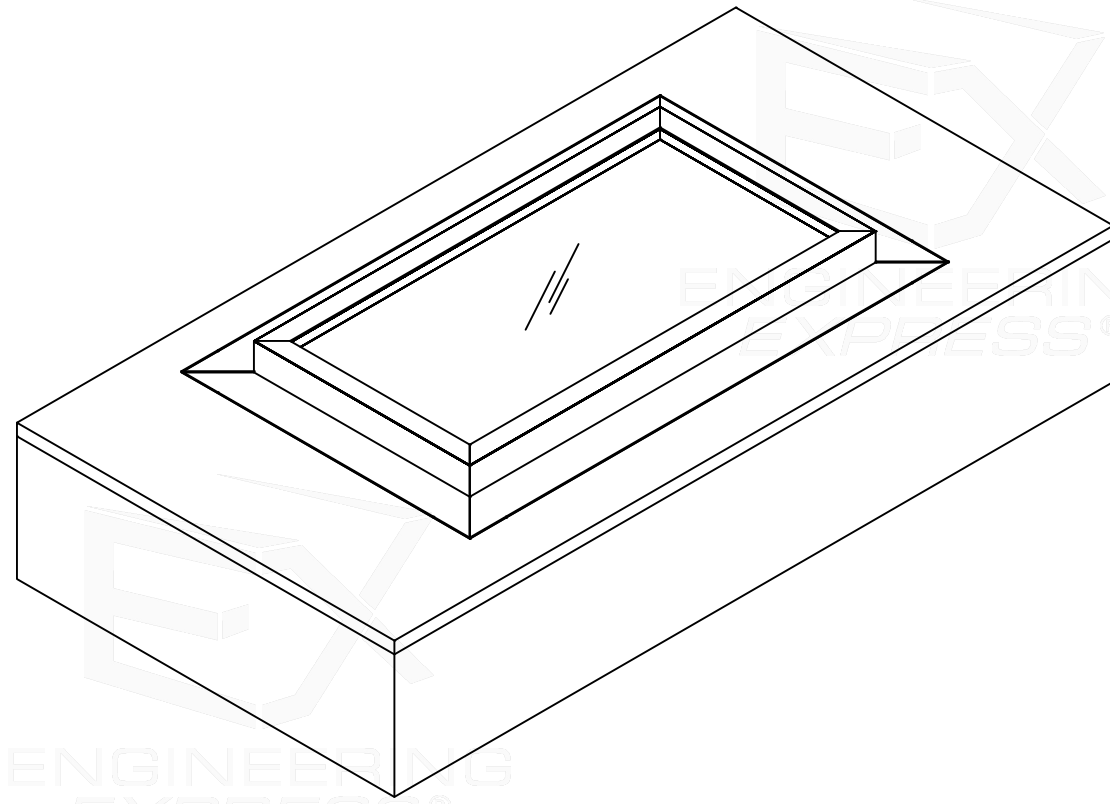
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GENERAL NOTES:

- THE SYSTEM AND GLASS TYPES DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023) PER:
 - ASTM E330, E331, E283, E2395
 - AAMA 501, AAMA 501.1
 - ALUMINUM DESIGN MANUAL 2015, ASCE 7-22
- FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (NON-HVHZ).
- GLASS UNIT(S) SHALL ME THE REQUIREMENTS OF ASTM E-1300.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION)
- IF SLOPED GLAZING IS NEEDED, IT SHALL BE ALLOWED UNDER SITE SPECIFIC ENGINEERING. DESIGN MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER(S).
- UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.



SHEET INDEX	
# SHEET	DESCRIPTION
01	COVER SHEET / GENERAL NOTES
02	ELEVATIONS
03-04	GLAZING DETAILS & FRAME LOADING TABLES
05	ANCHORING SCHEDULE & LAYOUT
06	INSTALLATION SECTION WITH SCREWS
07	INSTALLATION SECTION WITH NAILS
08-09	BILL OF MATERIALS & COMPONENTS
9	TOTAL

DESIGN PRESSURE RATING (PSF)	
IMPACT RATING	WIND ZONE 4 - MISSILE LEVEL D
	+52.5 PSF, -52.5 PSF
NON-IMPACT RATING	+60.0 PSF, -60.0 PSF

VISIT ECALC.IO/78918
 FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE
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 5294 TOWER WAY
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 PH: (800) 280-2545
 MODEL "SFG4" CURB MOUNTED SELF-FLASHING
 FLORIDA BUILDING CODE EIGHTH EDITION (2023)
 FLORIDA STATEWIDE APPROVAL (FSA FL#39163.1)

REMARKS	DRWN	CHKD	DATE
FBC (2020) WAS 21-40881	TAE	AJP	06/01/21
FBC (2023)	SQ	RS	10/03/24

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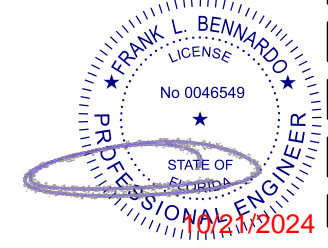
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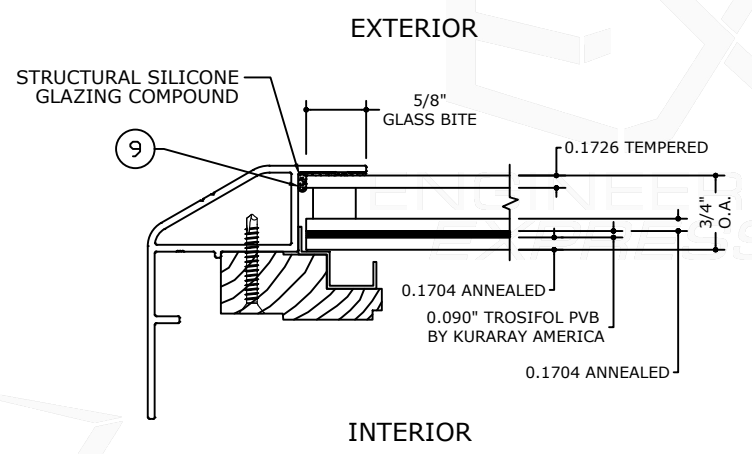


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GLASS TYPES

NOTE: GLASS SIZE = DLO + 1-1/4"

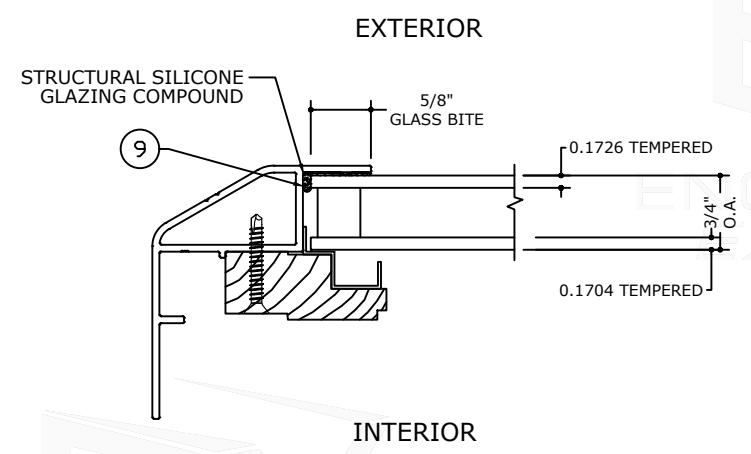
NOTE:
D.L.O WIDTH = FRAME WIDTH - 4.4" (+/-1/16")
D.L.O HEIGHT = FRAME HEIGHT - 4.4" (+/-1/16")



GLASS TYPE **G1**

GLAZING DETAIL

N.T.S.
GLASS RATING:
LARGE MISSILE IMPACT
MISSILE LEVEL D



GLASS TYPE **G2**

GLAZING DETAIL

N.T.S.
GLASS RATING:
NON - IMPACT

NOTE:
GLAZING TYPE COMPLIES WITH
ASTM E1300 REQUIREMENTS .

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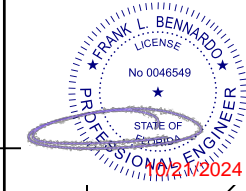
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FRAME LOADING TABLES

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GLASS TYPES		G1	
		ALLOWABLE PRESSURE	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F.	(-) P.S.F.
24	24	52.5	52.5
	30	52.5	52.5
	36	52.5	52.5
	42	52.5	52.5
	48	52.5	52.5
	54	52.5	52.5
	60	52.5	52.5
	66	52.5	52.5
	72	52.5	52.5
	78	52.5	52.5
30	24	52.5	52.5
	30	52.5	52.5
	36	52.5	52.5
	42	52.5	52.5
	48	52.5	52.5
	54	52.5	52.5
	60	52.5	52.5
	66	52.5	52.5
	72	52.5	52.5

GLASS TYPES		G1		
		ALLOWABLE PRESSURE		
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F.	(-) P.S.F.	
36	24	52.5	52.5	
	30	52.5	52.5	
	36	52.5	52.5	
	42	52.5	52.5	
	48	52.5	52.5	
	54	52.5	52.5	
	60	52.5	52.5	
	42	24	52.5	52.5
		30	52.5	52.5
		36	52.5	52.5
42		52.5	52.5	
48		52.5	52.5	
54		52.5	52.5	
48		24	52.5	52.5
		30	52.5	52.5
		36	52.5	52.5
		42	52.5	52.5
	48	52.5	52.5	

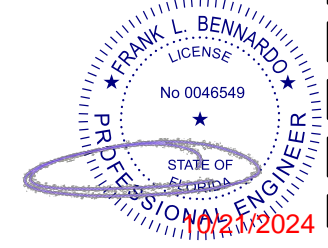
GLASS TYPES		G2		
		ALLOWABLE PRESSURE		
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F.	(-) P.S.F.	
24	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	48	60	60	
	54	60	60	
	60	60	60	
	30	24	60	60
		30	60	60
		36	60	60
42		60	60	
48		60	60	
54		60	60	
60		60	60	
66		60	60	
72		60	60	

GLASS TYPES		G2		
		ALLOWABLE PRESSURE		
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F.	(-) P.S.F.	
36	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	48	60	60	
	54	60	60	
	60	60	60	
	42	24	60	60
		30	60	60
		36	60	60
42		60	60	
48		60	60	
54		60	60	
48		24	60	60
		30	60	60
		36	60	60
		42	60	60
	48	60	60	

NOTE: D.L.O. WIDTH AND HEIGHT DIMENSIONS CAN BE REVERSED.

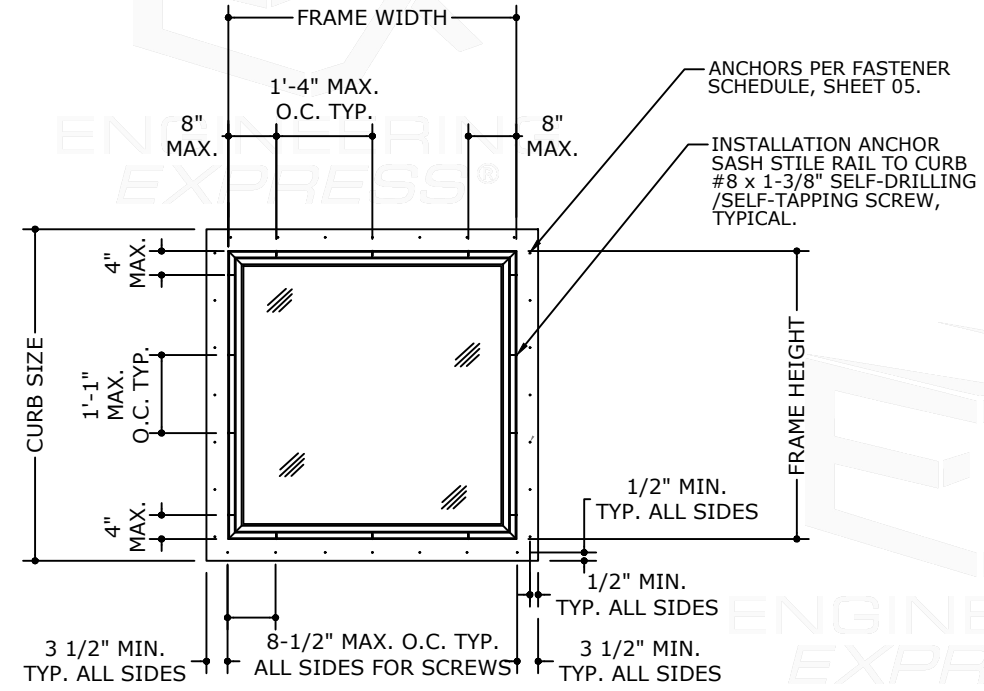
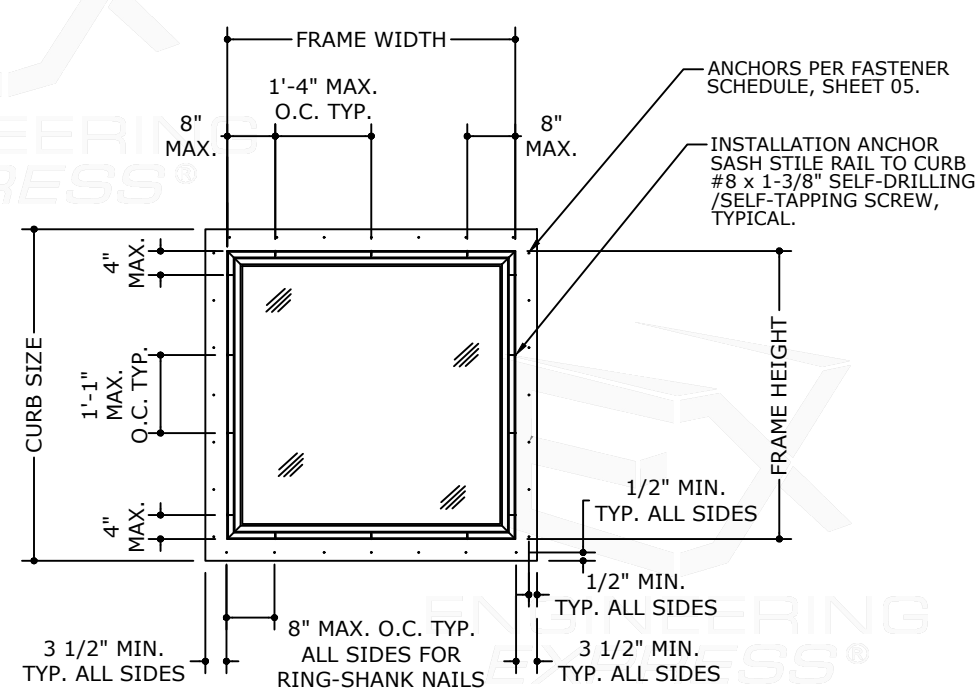
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ANCHOR SCHEDULE



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ANCHOR SCHEDULE

ANCHOR TYPE	ANCHOR DIAMETER	TYPE	SUBSTRATE	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)
A	1/4"	TAPCON	POURED CONCRETE 3000 PSI MIN	1-1/2 MIN. INTO CONCRETE	1-1/2
B	#12	SELF DRILLING SCREW	1/8" STEEL-A36 1/8" ALUMINUM-6063-T6	PROTRUDE 3 PINCHES MIN. PAST UNDERSIDE OF SUBSTRATE	1/2
C	#12	SELF DRILLING SCREW	PLYWOOD OR OSB (7/16" PLYWOOD GROUP 1 OR 2 (PS1) OR 7/16" SHEATHING (PS2)	PROTRUDE 1/4" PAST UNDERSIDE OF SUBSTRATE	1/2
D	#10	WOOD SCREW	2X WOOD BUCK (SYP#2 MIN.) G=0.55	1-1/2 MIN. INTO WOOD SUBSTRATE	1/2
E	0.099"	RING-SHANK NAIL WITH 1/4" ROUND HEAD	2X WOOD BUCK (SYP#2 MIN.) G=0.55	PROTRUDE 1/4" PAST UNDERSIDE OF SUBSTRATE	1/2
F	0.099"	RING-SHANK NAIL WITH 1/4" ROUND HEAD	PLYWOOD OR OSB (7/16" PLYWOOD GROUP 1 OR 2 (PS1) OR 7/16" SHEATHING (PS2)	PROTRUDE 1/4" PAST UNDERSIDE OF SUBSTRATE	1/2

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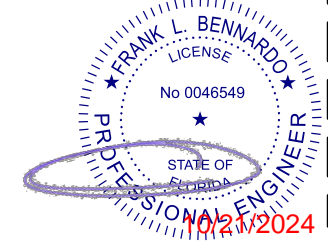
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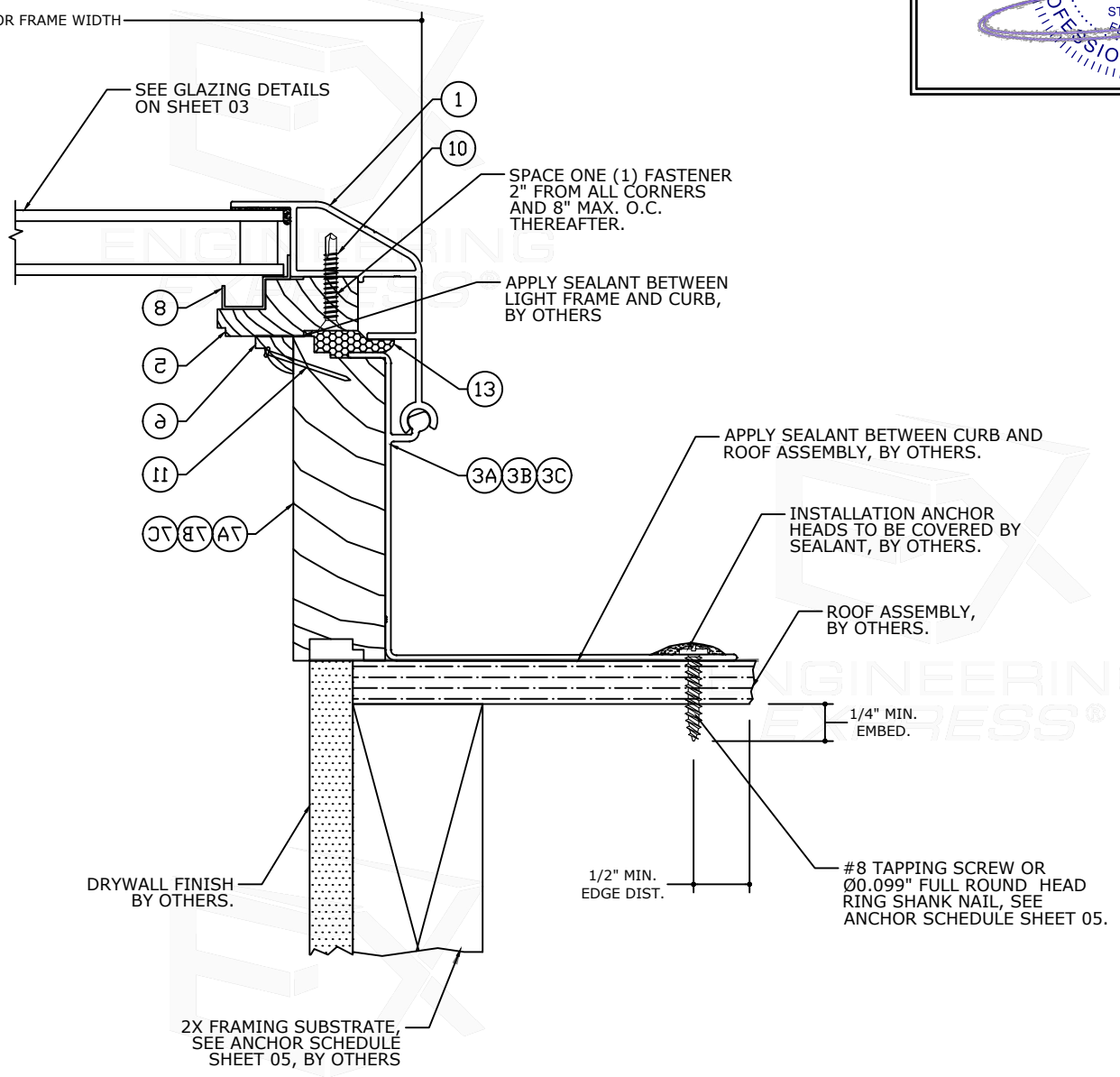
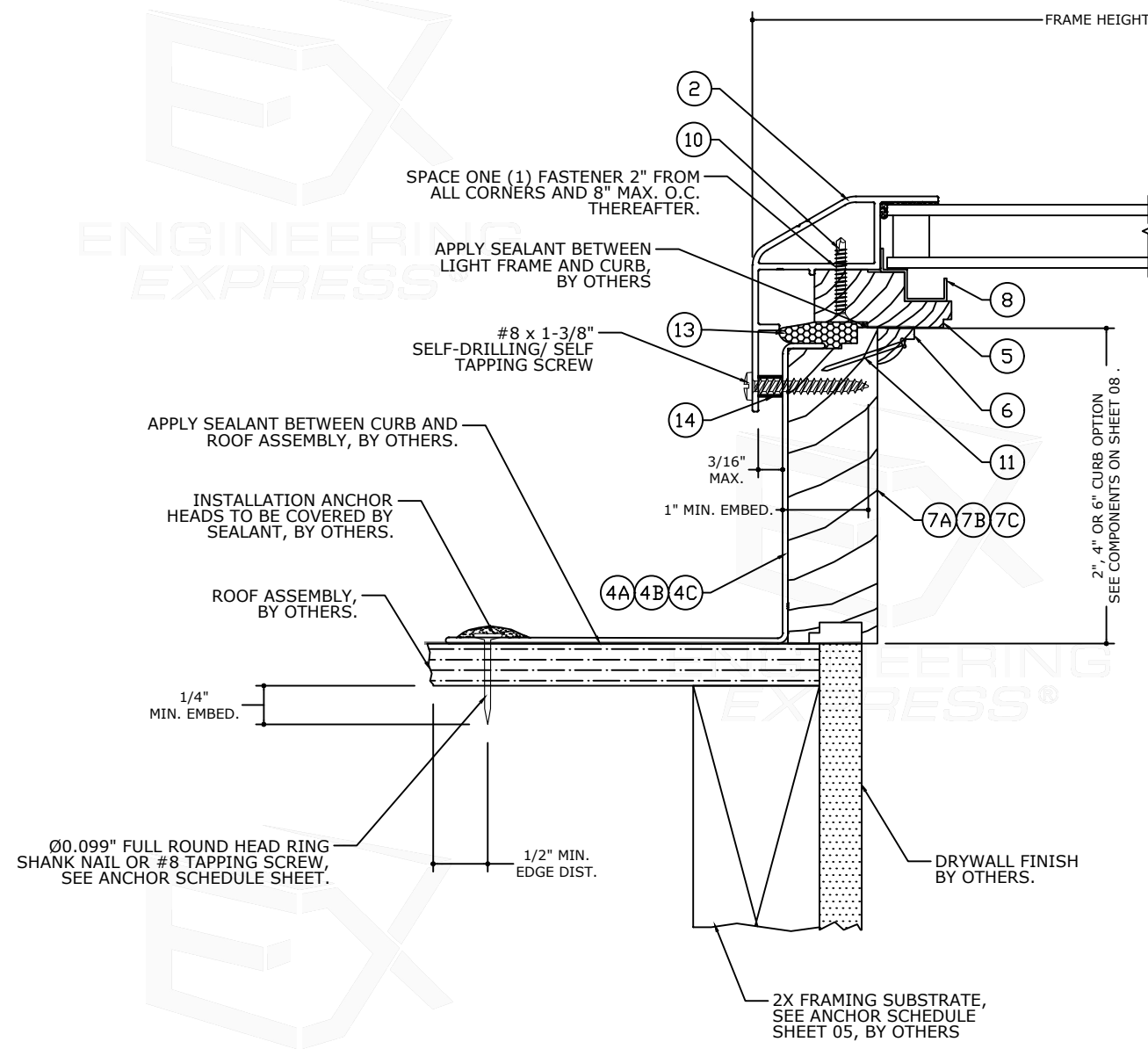
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CROSS SECTION DETAILS



1 **INSTALLATION CROSS SECTION**
NON-HINGE SIDE
2X FRAMING INSTALLATION DETAIL
Ø 0.148" RING SHANK NAIL SHOWN, #10 TAPPING SCREW ALSO APPROVED, SEE ANCHOR SCHEDULE SHEET 05

1A **INSTALLATION CROSS SECTION**
HINGE SIDE
2X FRAMING INSTALLATION DETAIL
#10 TAPPING SCREW SHOWN, Ø 0.148" RING SHANK NAIL ALSO APPROVED, SEE ANCHOR SCHEDULE SHEET 05

SEE ANCHOR SCHEDULE SHEET 05 FOR OTHER APPROVED TYPES.

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

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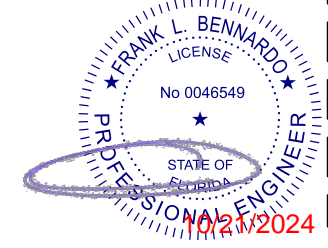
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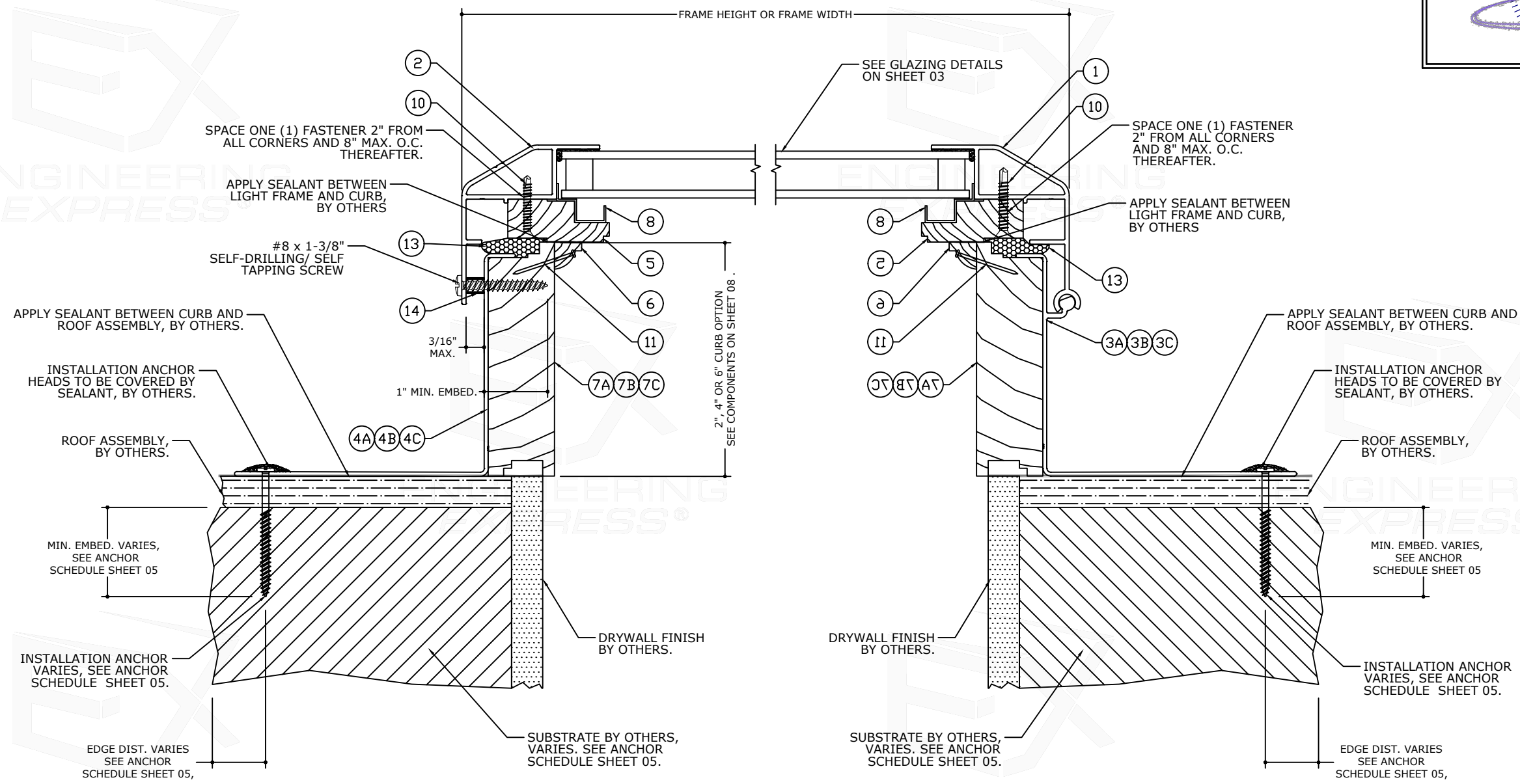
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CROSS SECTION DETAILS



2 INSTALLATION CROSS SECTION
NON-HINGE SIDE
2X FRAMING, CONCRETE & METAL
FRAMING INSTALLATION DETAIL
SEE ANCHOR SCHEDULE SHEET 05

2A INSTALLATION CROSS SECTION
HINGE SIDE
2X FRAMING, CONCRETE & METAL
FRAMING INSTALLATION DETAIL
SEE ANCHOR SCHEDULE SHEET 05

SEE ANCHOR SCHEDULE SHEET 05 FOR OTHER APPROVED TYPES.

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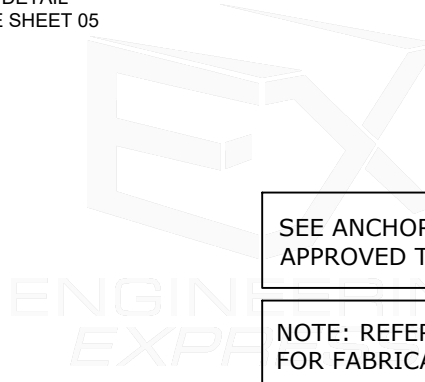
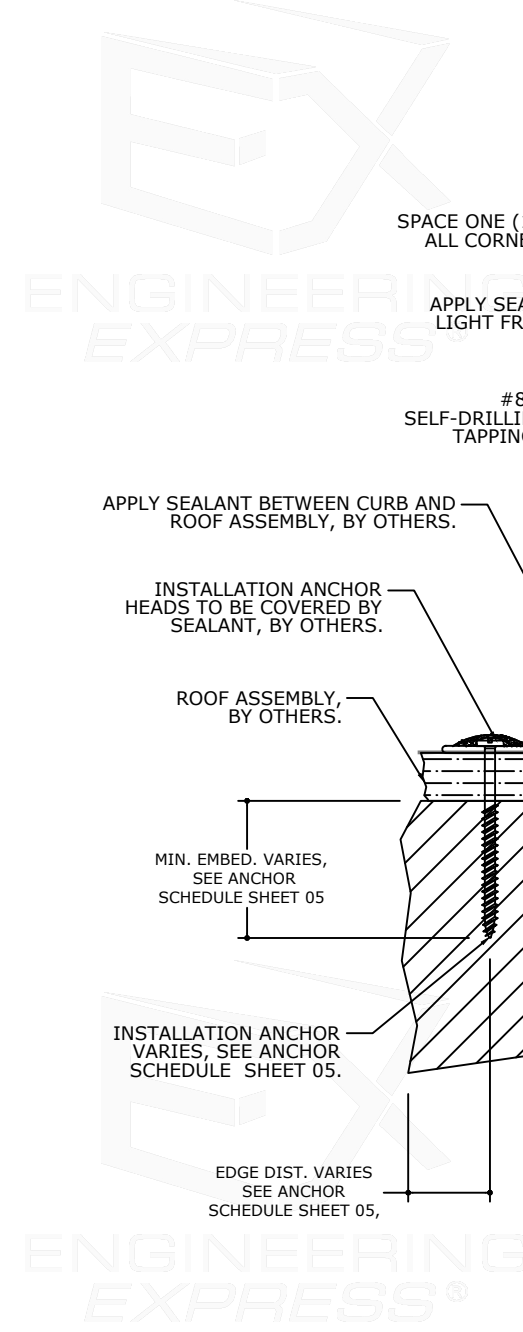
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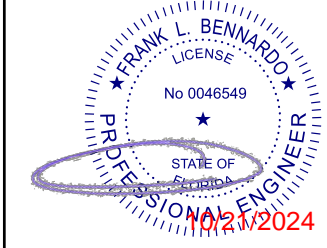


BILL OF MATERIALS

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER	MATERIAL
1	FE4694	SASH HINGE	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
2	FE4693	SASH STILE RAIL	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
3A	FE4695	4" CURB HINGE	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
4A	FE46700	4" CURB	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
3B	FE4695	2" CURB HINGE	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
4B	FE46700	2" CURB	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
3C	FE4695	6" CURB HINGE	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
4C	FE46700	6" CURB	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6
5	SM KS-5	WOOD SASH FRAME	KENNEDY SKYLIGHTS, LLC	WOOD
6	SM KS-6	SASH STOP	KENNEDY SKYLIGHTS, LLC	WOOD
7A	SM KS-2	WOOD CURB 2"	KENNEDY SKYLIGHTS, LLC	WOOD
7B	SM KS-2	WOOD CURB 4"	KENNEDY SKYLIGHTS, LLC	WOOD
7C	SM KS-2	WOOD CURB 6"	KENNEDY SKYLIGHTS, LLC	WOOD
8	-----	CONDENSATION CHANNEL	OMEGA PLASTICS	RPVC W/UV PROTECTION
9		GLAZING COMPOUND	NOVAFLEX	STRUCTURAL SILICONE
10		#8 x 1 1/4" FH SELF-DRILLING SCREW		
11		16GA. x 1 1/8" BRAD NAIL		
12		NON-IMPACT GLAZING, SEE SHEET 4		
13		1" x 1 1/4" FOAM GASKET		EDPM FOAM
14		RIGID SPACER FOR SASH STILE RAIL INSTALLATION, SEE INSTALLATION NOTE 4 SHEET 2		RIGID

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