NATURAL LIGHT ENERGY SYSTEMS, dba KENNEDY SKYLIGHTS MODEL "ISFG4" CURB MOUNTED GLASS SKYLIGHT - LMI

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- 1. THE PRODUCT ANCHORAGE SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE BUILDING (FBC) AND RESIDENTIAL (FRC) VOLUMES EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) FOR WIND ZONE 4, MISSILE LEVEL D AT THE DESIGN PRESSURE(S) STATED HEREIN.
- 2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT NO. NCTL-210-2959-1 AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
- 3. THE SKYLIGHT HAS BEEN TESTED IN ACCORDANCE WITH THE WIND BORNE DEBRIS REGION REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE BUILDING (FBC) AND RESIDENTIAL (FRC) VOLUMES AND DOCUMENTED IN SIGNED AND SEALED TEST REPORT NO. NCTL-210-2959-1 AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
- 4. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1. SEE SHEET 4 FOR GLAZING DETAIL.
- 5. ADEQUACY OF THE EXISTING STRUCTURAL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 6. SITE CONDITIONS THAT DEVIATE FROM THE DETAILS OF THIS DRAWING REQUIRE FURTHER ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- 7. THIS PRODUCT IS NOT REQUIRED TO USE AN IMPACT PROTECTIVE SYSTEM THAT COMPLIES WITH THE FLORIDA BUILDING CODE IN THE WIND BORNE DEBRIS REGION.
- 8. WHEN APPLICABLE, DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM SKYLIGHT FRAMING SHALL HAVE BEEN PROTECTED IN A MANNER TO PREVENT GALVANIC CORROSION. FASTENERS SHALL BE MADE OF CORROSION RESISTANT METAL OR HAVE A CORROSION RESISTANT COATING.
- 9. CURB CONSTRUCTION AND MOUNTING DETAILS:
- 9.1. A CURB SUPPLIED BY OTHERS CONSTRUCTED AND MOUNTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE BUILDING (FBC) AND RESIDENTIAL (FRC) VOLUMES FOR THE TYPE OF CONSTRUCTION CLASSIFICATION WHERE THE SKYLIGHT IS TO BE INSTALLED IS ALLOWED.
- 9.2. INTEGRATION WITH THE ROOF ASSEMBLY SHALL BE IN ACCORDANCE WITH CHAPTER 15 OF THE CURRENT EDITION OF THE FBC AND CHAPTER 9 OF THE CURRENT EDITION OF THE FRC.
- 9.3. ADDITIONAL INSTALLATION DETAILING AND ENGINEERED INSTALLATION EVALUATION BY A LICENSED DESIGN PROFESSIONAL WILL BE REQUIRED FOR SUBMITTAL IN ADDITION TO THIS PRODUCT EVALUATION DOCUMENT.

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

	TABLE OF CONTENT									
SHEET	DESCRIPTION									
1	GENERAL NOTES AND DESIGN PRESSURE RATING									
2	INSTALLATION NOTES AND ANCHOR SCHEDULE									
3	ELEVATION AND ANCHORING LAYOUT									
4	INSTALLATIOIN SECTION WITH SCREWS AND GLAZING DETAIL									
5	INSTALLATION SECTION WITH NAILS									
6	BILL OF MATERIALS AND COMPONENTS									

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5294 TOWER WAY			
SANFORD, FL 32773			
MODEL "ISECA" CLIBB MOLINTED CLASS SKYLIGHT			
LARGE MISSILE IMPACT	Update to 8th Edition	on 10/16/2	2
GENERAL AND INSTALLATION NOTE	(2023) FBC	10/10/23 RU	2
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SCALE: DRAWING NO:	Update to 5th Edition		-
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Phone: 321.690.1788 REV: SHEET:			
Email: info@ptc-corp.com C 1 OF 6	REV DESCRIPTION	DATE	В

Robert J. Amoruso, P.E. FL P.E. No. 49752

INSTALLATION NOTES:

- 1. ANCHOR INSTALLATION:
- 1.1. INSTALL CURB TO ROOF ASSEMBLY IN ACCORDANCE WITH THE ANCHORING LAYOUT ELEVATIONS SHOWN ON SHEET 3 USING FASTENERS SHOWN IN THE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET.
- 1.2. INSTALL SASH TO CURB USING #8 SELF-DRILLING/SELF-TAPPING SCREWS. SEE ANCHORING LAYOUT SHEET 3.
- 1.3. CURB WOOD SPECIFIC GRAVITY OF 0.55 MINIMUM.
- 2. APPLY ALL SEALANTS ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- 3. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN ON THE INSTALLATION DRAWINGS. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES INCLUDING, BUT NOT LIMITED TO SHEATHING, UNDERLAYMENT AND SHINGLES.
- 4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
- 5. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE INSTALLATION ANCHOR SCHEDULE ON THIS SHEET.
- 6. FOR SKYLIGHT SIZES LESS THAN THAT SHOWN IN THE ELEVATIONS, ANCHOR QUANTITIES MAY BE REDUCED BY ONE (1) WHEN SPACING BETWEEN ANCHORS IS 50% OR LESS THAN THE MAXIMUM SPACING REQUIRED.

	INSTALLATION ANCHOR SCHEDULE									
ASSEMBLY	SUBSTRATE TYPE	HEAD TYPE	SIZE	MANUFACTURER AND/OR SPECIFICATION	O/OR MIN. EMBEDMENT MIN. EDGE MIN.		CAPACITIES BASED ON			
CURB	SOLID-SAWN LUMBER (1)	HEX, PAN OR TRUSS HEAD	NO. 8	ASME B18.6.4 (SELF- DRILLING/SELF- TAPPING SCREW)	1	5/8	5/8	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55		
ROOF	CONCRETE	HEX HEAD	3/16"	ITW TAPCON (3)	1 1/2	1 1/8	2 1/2	MIN. 2500 PSI CONCRETE BUT NOT LESS THAN THAT REQUIRED BY BUILDING CODE		
KUUF	CONCRETE		3/10	Elco Ultracon	1 3/8	1	3 3/8	MIN. 2500 PSI CONCRETE BUT NOT LESS THAN THAT REQUIRED BY BUILDING CODE		
ROOF	SOLID-SAWN LUMBER (2)	HEX, PAN OR TRUSS HEAD	NO. 8	ANSI B18.6.1 (WOOD SCREW) ASME B18.6.4 (SELF- DRILLING/SELF- TAPPING SCREW)	7/8	7/8 5/16		WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55		
ROOF	SOLID-SAWN LUMBER	1/4" DIA. ROUND HEAD RING-SHANK NAIL	0.099" DIA. MIN.	RING-SHANK NAIL	7/8	1/2	1/2	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.55		
ROOF	ALUMINUM OR STEEL, 1/8" MIN. WALL THICKNESS	HEX, PAN OR TRUSS HEAD	NO. 8	ASME B18.6.4 (SELF- DRILLING/SELF- TAPPING SCREW)	DRILLING/SELF- INTERIOR OF 1/2		1/2	ULTIMATE STRENGTH (Fu) OF 22,000 PSI		
ROOF	PLYWOOD or OSB	HEX, PAN OR TRUSS HEAD	SCREW THREA SHALL PROTRUI ASME B18.6.4 (TYPE MINIMUM OF 1 AB TAPPING SCREW) FROM THE UNDE OF THE ROO			SPECI VO		7/16" THICK PLYWOOD - SPECIES GROUP 1 OR 2 (APA VOLUNTARY PRODUCT STANDARD PS 1) MINIMUM		
ROOF	PLYWOOD or OSB	1/4" DIA. ROUND HEAD RING-SHANK NAIL	0.099" DIA. MIN.	RING-SHANK NAIL	NAIL SHANK SHALL PROTRUDE A MINIMUM OF 1/4" FROM THE UNDERSIDE OF THE ROOF SHEATHING	1/2	1/2	OR 7/16" - SHEATHING GRADE (APA VOULUNTARY PRODUCT STANDARD PS 2) MINIMUM		

NOTES:

- 1) FOR NO. 8 WOOD AND TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 0.102" (DRILL SIZE 38) PILOT HOLE FOR WOOD FRAME INSTALLATION.
- 2) FOR NO. 8 WOOD AND TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 0.082" (DRILL SIZE 45) PILOT HOLE FOR WOOD FRAME INSTALLATION.
- 3) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

Robert J. Amoruso, P.E. FL P.E. No. 49752

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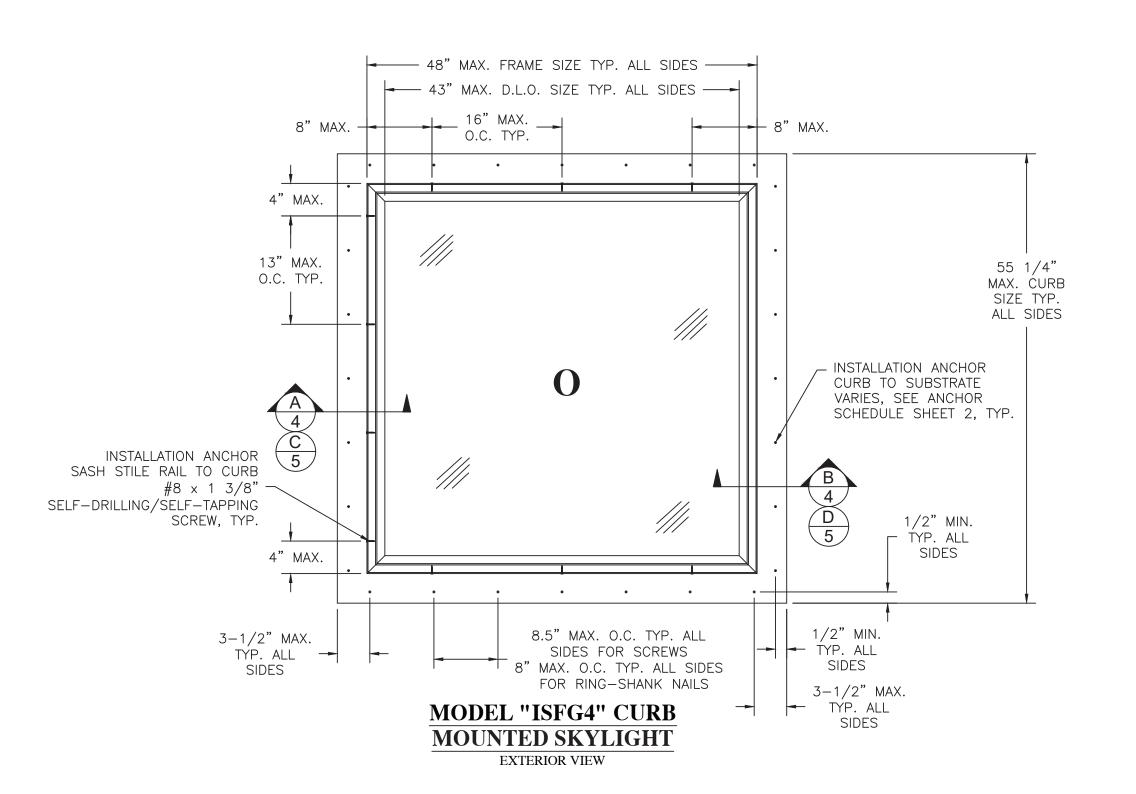
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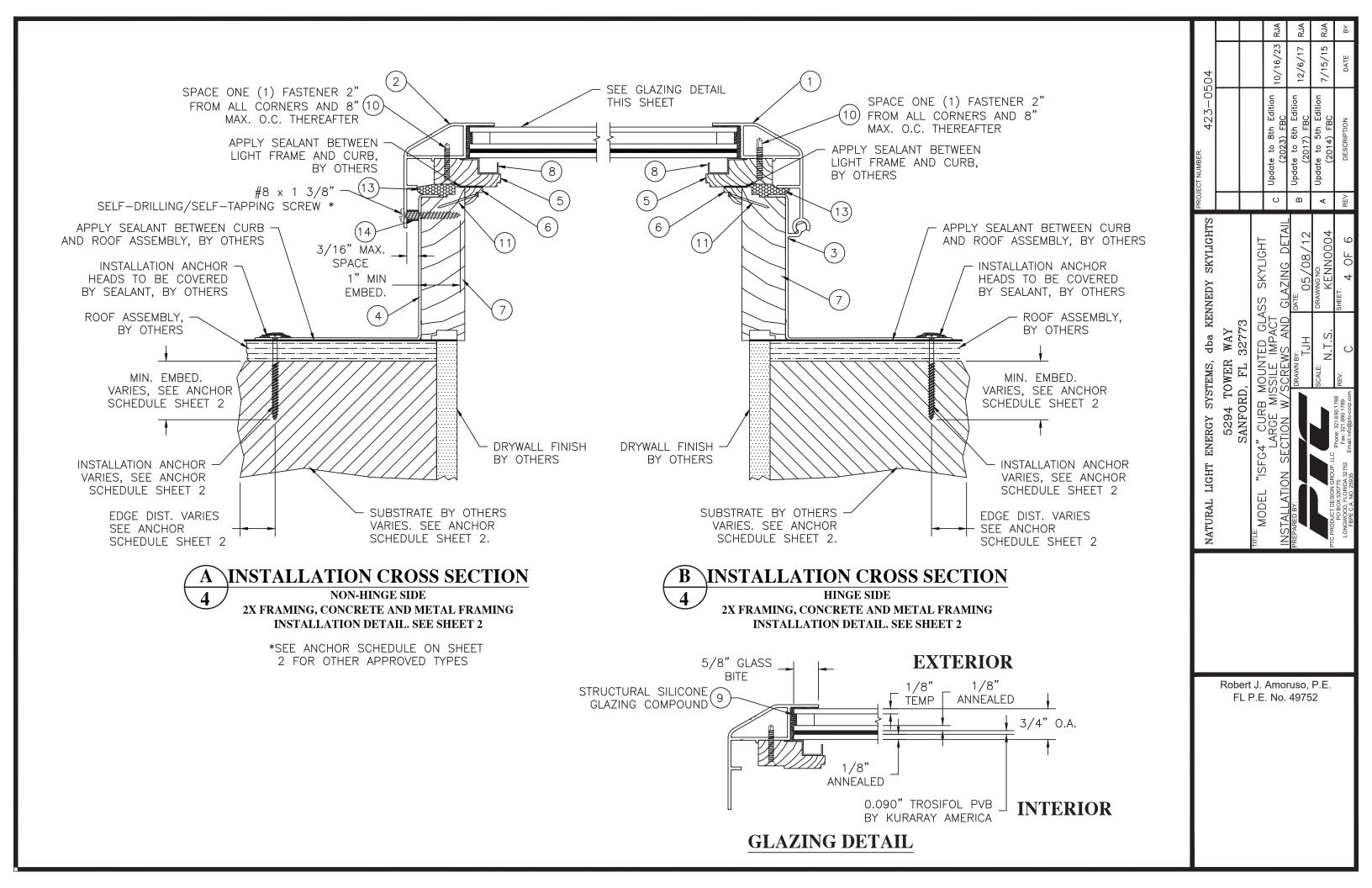
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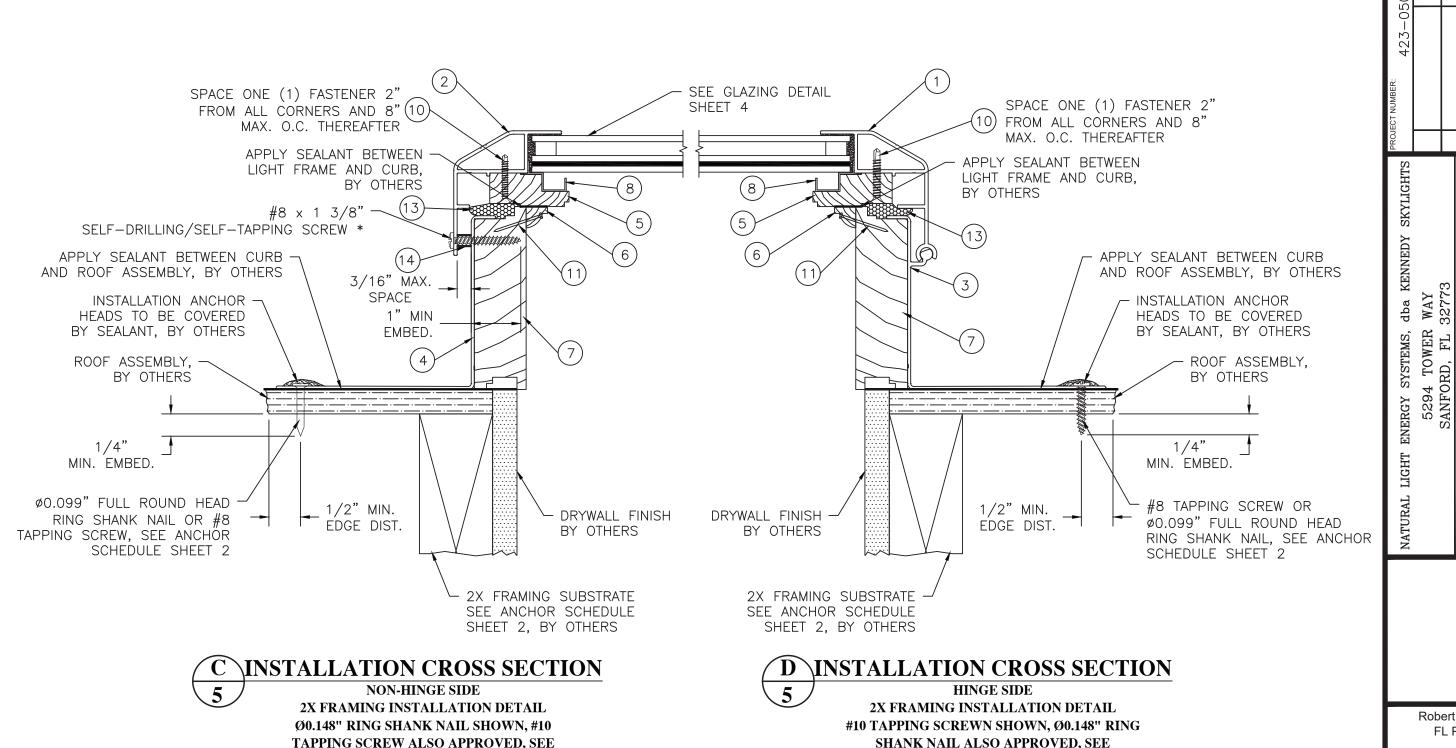
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PO BOX 520775 Phone: 32 LONGWOOD, FLORIDA 32752 Fax: 321	Phone: 321.690.1788 REV:	SHEET:	REV	DESCRIPTION	DATE	ВУ
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Robert J. Amoruso, P.E. FL P.E. No. 49752





ANCHOR SCHEDULE SHEET 2

ANCHOR SCHEDULE SHEET 2

*SEE ANCHOR SCHEDULE ON SHEET 2 FOR OTHER APPROVED TYPES

Robert J. Amoruso, P.E. FL P.E. No. 49752

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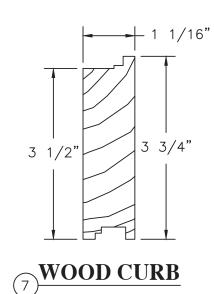
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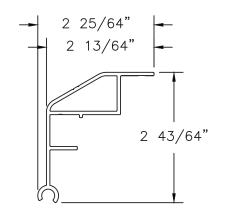
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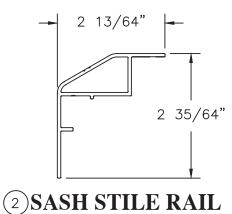
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BILL OF MATERIALS									
ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER	MATERIAL					
1	FE4694	SASH HINGE	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6					
2	FE4693	SASH STILE RAIL	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6					
3	FE4695	4" CURB HINGE	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6					
4	FE46700	4" CURB	INDALEX ALUM. SOLUTIONS	ALUM. 6063-T6					
5	SM KS-5	WOOD SASH FRAME	NATURAL LIGHT ENERGY SYSTEMS, dba KENNEDY SKYLIGHTS	WOOD					
6	SM KS-6	SASH STOP	NATURAL LIGHT ENERGY SYSTEMS, dba KENNEDY SKYLIGHTS	WOOD					
7	SM KS-2	WOOD CURB	NATURAL LIGHT ENERGY SYSTEMS, dba KENNEDY SKYLIGHTS	WOOD					
8	AK-2474	CONDENSATION CHANNEL	CENTRAL PLASTICS, INC.	HIGH TEMP. PVC					
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		LARGE MISSILE IMPACT GLAZING, SEE SHEET 3							
13		1" x 1/4" FOAM GASKET		EDPM FOAM					
14		RIGID SPACER FOR SASH STILE RAIL INSTALLATION, SEE INSTALLATION NOTE 4, SHEET 2		RIGID					

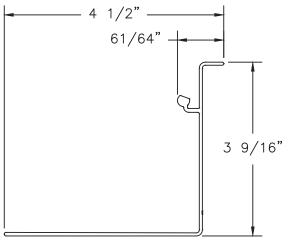




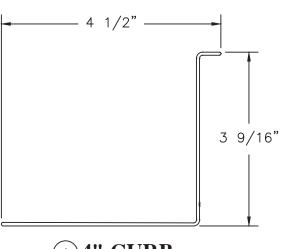
(1) SASH HINGE EXTRUDED ALUMINUM 6063-T6 0.070" THICK



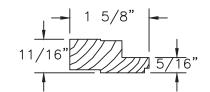
EXTRUDED ALUMINUM 6063-T6 0.070" THICK



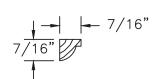
(3)4" CURB HINGE EXTRUDED ALUMINUM 6063-T6 0.063" THICK



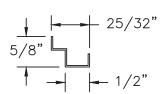
(4)4" CURB EXTRUDED ALUMINUM 6063-T6 0.063" THICK



WOOD SASH FRAME



(6) WOOD SASH STOP



EXTRUDED HIGH TEMP RIGID PVC 0.030" THICK

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Robert J. Amoruso, P.E. FL P.E. No. 49752