SOLATUBE INTERNATIONAL HSE OPERABLE SERIES CURB MOUNT SKYLIGHT INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- THE PRODUCT ANCHORAGE SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) REQUIREMENTS EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURE STATED HEREIN.
- 2. THE PRODUCT HAS BEEN TESTED TO AAMA/WDMA/CSA 101/I.S.2/A440-08 AND 11 AND FOUND TO BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONE. THE DESIGN PRESSURES SHOWN IN PERFORMANCE RATING TABLE ON SHEET 1 OF THIS DRAWING ARE BASED ON THOSE TEST RESULTS DIVIDED BY A FACTOR OF SAFETY OF 2.
- ADEQUACY OF THE EXISTING STRUCTURAL ROOF SHEATHING AND SUPPORTING 2X FRAMING AS A MAIN WIND FORCE 3. RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- THIS PRODUCT HAS NOT BEEN TESTED FOR IMPACT RESISTANCE. WHEN USED IN A WIND BOURNE DEBRIS REGION, A 5. PROTECTIVE IMPACT-RATED DEVICE IS REQUIRED.
- THIS PRODUCT EVALUATION DOCUMENT ADDRESSES THE STRUCTURAL ATTACHMENT OF THE SKYLIGHT TO A ROOF 6. MOUNTED CURB SUPPLIED BY OTHERS. PREPARATION OF THE ROOF SHEATHING, ROOF COVERING(S) AND SUPPORTING 2X WOOD FRAMING TO RECEIVE THE SKYLIGHT SHALL BE PER THE MANUFACTURER'S INSTRUCTIONS AND COMPLIANT WITH CHAPTER 15 OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE AND CHAPTER 9 OF THE CURRENT EDITION OF THE FLORIDA RESIDENTIAL CODE.
- IN ACCORDANCE WITH THE CURRENT EDITION FBC DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM FLASHING SHALL HAVE BEEN PROTECTED.
- MATERIAL/COMPONENT CERTIFICATION: 8.
- LAMINATED IGU INTERLAYER: SAFLEX CLEAR POLYVINYL BUTYRAL (PVB) INTERLAYER BY EASTMAN CHEMICAL PER THE 8.1. LATEST MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
- 9. GLAZING CONFIGURATION:
- 91 1' OVERALL LAMINATED IGU
- EXTERTIOR LITE: 5/32" (4mm) TEMPERED 92
- INTERIOR LITE: 1/8" (3mm) ANNEALED X 0.76 SAFLEX CLEAR POLYVINYL BUTYRAL (PVB) X 1/8" (3mm) ANNEALED 9.3.
- WARM EDGE SPACER 94

INSTALLATION NOTES:

- 1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEET 3.
- 2. THE NUMBER OF INSTALLATION ANCHORS REQUIRED BASED ON SKYLIGHT SIZE CAN BE FOUND IN THE PERIMETER ANCHOR REQUIREMENTS FOR OPERABLE SKYLIGHTS AT 35.09 PSF ON SHEET 3
- 3. ANCHOR REQUIREMENTS FOR VARIOUS CURB SUBSTRATE CAN BE FOUND IN THE ANCHOR SCHEDULE ON SHEET 3.
- 4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE FINISHES.
- 5. INSTALLATION ANCHORS MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 6. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
- 6.1. 2X WOOD FRAMING, BLOCKING OR BUCKS WITH A SPECIFIC GRAVITY > 0.42.
- 6.2. CONCRETE WITH A MINIMUM 6" THICKNESS, MINIMUM fc = 3,000 PSF UN-CRACKED NORMAL WEIGHT.
- 6.3. MINIMUM 20 GAUGE (0.0359") THICK ASTM A653 GRADE 33 STEEL SUBSTRATE.
- 7. INSTALLATION/MOUNTING CONDITIONS AND LIMITATIONS OF USE AS REQUIRED BY THE FOLLOWING SECTIONS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) AND FLORIDA RESIDENTIAL CODE (FRC) SHALL BE MET.
- 7.1. FBC CHAPTER 24, SLOPED GLAZING AND SKYLIGHTS
- 7.2. FRC CHAPTER 3, SKYLIGHTS AND SLOPED GLAZING
- 8. A CURB CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION CLASSIFICATION. BUT AT LEAST 4 INCHES ABOVE THE PLANE OF THE ROOF BY OTHERS IS ALLOWED. ADDITIONAL INSTALLATION DETAILING AND ENGINEERED INSTALLATION EVALUATION BY A LICENSED DESIGN PROFESSIONAL WILL BE REQUIRED FOR SUBMITTAL IN ADDITION TO THIS PRODUCT EVALUATION DOCUMENT.

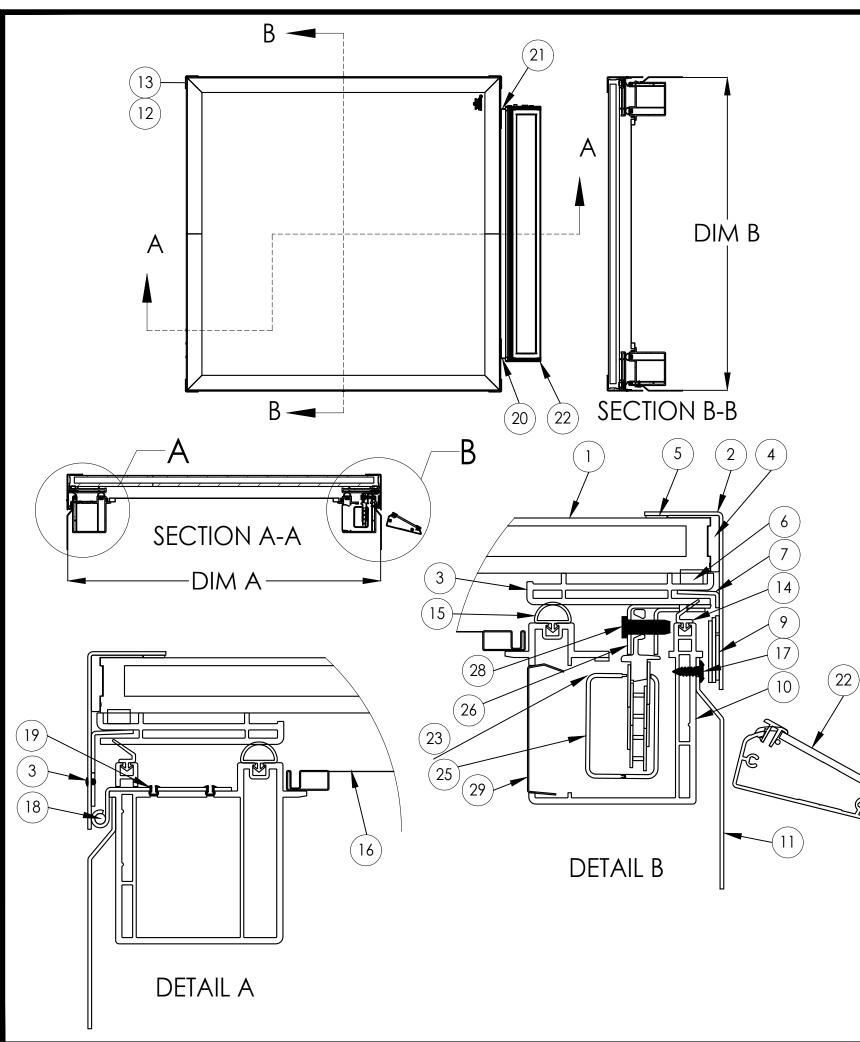
PERFORMANCE RATING									
SKYLIGHT SIZE	GLAZING DETAIL	DESIGN PRESSURE (PSF)	IMPACT RATING						
SEE TABLE ON SHEET 2	SEE GENERAL NOTE 9, SHEET 1	+/- 35.09 PSF	NONE						

	TABLE OF CONTENTS
SHEET	DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	ELEVATIONS, SECTIONS AND BOM
3	INSTALLATION DETAILS

SOLATUBE IN	SOLATUBE INTERNATIONAL			PROJECT # 419-1203	-1203	
2210 OAK	2210 OAK RIDGE WAY					
VISTA, CA	VISTA, CA 92081-9341					
TITLE: HSE OPERABLE SERIES CURB MOUNT SKYLIGHT	ES CURB MOUN	VT SKYLIGHT				
GENERAL & INSTALLATION NOTES	TALLATION NOT	'ES				
PREPARED BY:	DRAWN BY:	DATE:				
	D ID	4/6/2020				
		10 2020				
	SCALE:	DRAWING NO:				
DTC Droding Design Comm 11 C	N.T.S.	SOLA0015				
	REV:	SHEET:				
Longwood, FL 32752-0775 Fax: 321.690.1789 FBPE C.A. NO. 25935 Email: info@ptc-corp.com	1	1 OF 3	REV	DESCRIPTION	DATE	BΥ

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

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			CURB MO	UNT OPERABLI	E SKYLI	GHT									BΥ
	ITEM NO.	PA RT NO.	DESCI	RIPTION			MATERIAL			419-1203					DATE
-	1	VARIES	INSULATED GLAS	S A SSEMBLY		4HT 1	0-Tg14Ar-	- 33.2		9-1		_			
-	2	VARIES	BASE FLANGE		P					41					
-	3	381091	EXTRUSION SKYL	GHT BASE			RIGID PVC			#					z
-	4	700358	SEA LA NT			PC	DLYURETHA	NE		PROJECT					DESCRIPTION
	5	620025	TAPE A CRYLIC F	ΟΑΜ		A	CYLIC FOA	M		JUC					ESCR
F	6	381076	CLOSED CELL FO	AM			EPDM FOAN	٨		ЪR(ā
F	7	VARIES	CLEAT		P	PAINTE		M A LLOY		_					
F	8	700048	RIVET			ALL	JMINUM AL	LOY							REV
_	9	831162	JOINER PLATE		P	PAINTE		M A LLOY				-			Ľ
	10	381083	EXTRUSION SKYLI	GHT OPERABL	E		RIGID PVC								
	11	VARIES	OPERABLE FLASH		P	AINTE		M A LLOY					0	15	<i>с</i>
	12	381115	CORNER CONNE	CTOR			ASA				Ξ	5	4/6/2020	IG NO: SOLA0015	Ч
	13	381121	CORNER BINDER	(NOT SHOWN	1)		ASA						4/6	g NO	2
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	15		SEALHOLLOW 'D	I			TPE RUBBER				Ę	≥	DATE:	DR	SHEET
-	16		SCREEN				NUM / FIBEF			A ⁽	_				
-	17		SCREW #8 X 1/2"				AINLESS STE			ΠO VA	CA 92081-9341	A	1	ن	Ι.
F	18	381410					AINLESS STE			. <mark>А</mark> М	6-15 1-9	SN SN	BY: RJ∕	N.T.S.	
	19		RIVET				STEEL			ER DG	208	음	DRAWN BY: RJA	SCALE:	÷
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_	23		MOTOR BRACKE			ST	AINLESS STE	EL		SOLATUBE INTERNATIONAL 2210 OAK RIDGE WAY	> Ia	ELEVATIONS, SECTIONS AND BOM			Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com
-	24		RIVET (FOR MOT				ALUMINUM			so	Ц Ц	Ъ			
-	25		MOTOR AND CH	,			N/A							Lo Lo	
	26	382055	CHAIN CONNEC	TOR ASSY		ST	AINLESS STE	EL			Ц V Н	2		Sroup.	0775 2752-0775 0.25935
	27	381320	RAIN SENSOR (N	OT SHOWN)			N/A					-			
	28	381201		,			STEEL						ED B)	duct D	PO Box 5 Longwood, FL ; FBPE C.A. N
	29	381053	MOTOR COVER	COATED		Р	AINTED STE	EL			TITLE:		PREPA	PTC Pro	PO Box 52 Longwood, FL 3 FBPE C.A. N
			STANDARD OF	PERABLE SIZES	(I.D.)										
	PAF	RT NO.	MODEL	NOM.	DIM	1 A	DIM B								
	38	2430	2020	1.5' x 1.5'	20.0	00"	20.00"								
		2510	2028	1.5' x 2'	20.0		27.50"								
		2690	2052	1.5' x 4'	20.0		51.50"								
-		2730	2828	2' x 2'	27.5		27.50"								
		2860					36.00"								
Ø -			2836	2' X 3'	27.5					obert J					
し		2980	2843	2' x 3.5'	27.5		43.00"		F	-lorida I	⁹ .E. N	o. 49 <i>1</i>	'52		
-		3020	2852	2' x 4'	27.5		51.50"								
		3170	3636	3' x 3'	36.0		36.00"								
	38	3280	3652	3' x 4'	36.0		51.50"								
	38	3350	4343	3.5' x 3.5'	43.0)0"	43.00"								
	38	4060	4352	3.5' x 4'	43.0)0"	51.50"								
				4' x 4'		50"									

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	ITEM	PA RT		RIPTION			MATERIAI			m				ш	
	NO.	NO.	DESCI	RIFIION			MAIERIAI	-		PROJECT # 419-1203				DATE	
	1	VARIES						9-1			_	_			
	2	VARIES	BA SE FLA NGE			PAINT	ED A LUMINU	MALLOY		41					
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	8	700048					LUMINUM AI							REV	
	9		JOINER PLATE			PAINT	ED A LUMINU								
	10		EXTRUSION SKYLI		.E		RIGID PVC								
_	11		OPERABLE FLASH			PAINT	ED A LUMINU	MALLOY			F		020	3015	
	12		CORNER CONNE				ASA				ц Б		4/6/2020	PLA0	
	13		CORNER BINDER	(not shown)		ASA				З		1NG N	SOLA0015 SHEET: 2 OF 3	
	14		SEALFIN	-			TPE RUBBE				ۍ ا	DATE	JRAW	SHEET	
	15		SEAL HOLLOW 'D	1			TPE RUBBE			ERNATIONAL DGE WAY	onal √	IN S			N N
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_	22		SKYLIGHT SOLAR		BLY	N/A STAINLESS STEEL				ATI	VIST/ BLE	2		e: 321. : 321.6 nfo@pt	
_	23		MOTOR BRACKE							0L	RA	A >		Phon Fax	
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-	26	382055	CHAIN CONNEC				STAINLESS ST	EEL			HSE		()	30775 32752-(
-	27		RAIN SENSOR (N	OI SHOWN)			N/A					0 BY:		et Designed Box 5	
-	28	381201					STEEL					PAREC	▝【	PTC Product PO E Longwood	
L	29	381053	MOTOR COVER	COATED			PAINTED STE				TITLE	PREF		PTC	
				PERABLE SIZES				-							
	PAF	RT NO.	MODEL	NOM.	DI	MA	DIM B	_							
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		4110	5151	4' x 4'			51.50"								
	20	,4110	2121	7 1 4	1		21.30								

ROOF CURB MOUNT ILLUSTRATION
SEE ANCHOR SCHEDULE TABLE FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS

	Anchor Schedule					
Substrate	Connection	Substrate E				
Steel	#10-16 TEKS Screw connecting Aluminum Base Flange to Steel	1. 2. 3. Minimun 4. Qualifie				
2X Wood Blocking, 2X Wood Buck, 2X Wood Framing	#10 Wood Screw connecting Aluminum Base Flange to 2x Wood Blocking	 Minimur 2. N 3. 4. Minimum (SPF), 0 				
Concrete	3/16" ITW Redhead Tapcon Anchor connecting Aluminum Base Flange to Concrete	1 2. 4. 5. Minimum Crad				

SEE ANCHOR SCHEDULE TABLE FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS SEE PERIMETER ANCHOR REQUIREMENTS TABLE FOR ANCHOR QUANTITIES AND LOCATIONS

Perimeter Anchor Requirements for Operable Skylights at 35.09 psf								
Skylight Sizes (Feet)	Anchor Type	Number of Fas Needed Per						
1.5 x 1.5 1.5 x 2 1.5 x 4 2 x 2 2 x 3	#10-16 TEKS Screw to Steel	Two (2)						
2 x 3.5 2 x 4 3 x 3	#10 Wood Screw to Wood Blocking	Two (2)						
3 x 4 3.5 x 3.5 3.5 x 4	3/16" Tapcon Anchor to Concrete	Two (2)						
	#10-16 TEKS Screw to Steel	Two (2)						
4 x 4	#10 Wood Screw to Wood Blocking	Three (3						
	3/16" Tapcon Anchor to Concrete	Two (2)						

Notes:

1. Place perimeter anchorages within 12" of corner, then per number of fasteners per side in the table above, spaced equally.

2. 3/16" Tapcon Anchor shall have minimum 2" embedment, minimum 2" edge distance and minimum 4" spacing in Concrete.

3. The building substrate is assumed to have the integrity to resist the anchor loads developed by the products.

