SOLATUBE INTERNATIONAL IMPACT 750 DS (21") DOME TUBULAR DAYLIGHT DEVICE INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

- 1. THE PRODUCT ANCHORAGE SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILING CODE (FBC) REQUIREMENTS, INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURES STATED HEREIN.
- 2. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT ATI83404.01-301-18 AND ASSOCIATED LABORATORY STAMPED DRAWINGS.
- 3. THE PRODUCT HAS BEEN TESTED TO TAS 201, TAS 202 AND TAS203 (ATI TEST REPORT ATI 83404.01-301-18) AND FOUND TO BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONE. THE DESIGN PRESSURES SHOWN IN <u>DESIGN PRESSURE RATING</u> TABLE ON SHEET 1 OF THIS DRAWING ARE BASED ON THE RESULTS OF TEST REPORT NO. ATI 83404.01-301-18 DIVIDED BY A FACTOR OF SAFETY OF 2 WHERE APPLICABLE.
- 4. PLASTIC COMPONENTS OF THE SOLATUBE TUBULAR DAYLIGHT DEVICE HAVE BEEN EVALUATED TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY ZONE AND ARE IN COMPLIANCE AS DOCUMENTED IN PRODUCT EVALUATION REPORT NO. 1973 BY ROBERT J. AMORUSO, P.E.
- 5. ADEQUACY OF THE EXISTING STRUCTURAL ROOF SHEATHING AND SUPPORTING 2X FRAMING AS A MAIN WIND FORCE 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.
- 6. 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.
- 7. THIS PRODUCT EVALUATION DOCUMENT ADDRESSES THE STRUCTURAL ATTACHMENT OF THE SKYLIGHT/TUBULAR DAYLIGHT DEVICE TO THE ROOF SHEATHING ONLY. PREPARATION OF THE ROOF SHEATHING AND ROOF COVERING(S) TO RECEIVE THE SKYLIGHT/TUBULAR DAYLIGHT DEVICE 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.
- 8. IN ACCORDANCE WITH THE CURRENT EDITION FBC DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM SKYLIGHT FRAMING SHALL HAVE BEEN PROTECTED.

TABLE OF CONTENTS							
SHEET	DESCRIPTION						
1	GENERAL AND INSTALLATION NOTES						
2	ELEVATION, ANCHORING AND INSTALLATION DETAILS OPEN CEILING						
3 & 4	ELEVATION, ANCHORING AND INSTALLATION DETAILS CLOSED CEILING						
5	BILL OF MATERIALS						

DESIGN PRESSU	IRE RATING (PSF)	IMPACT RATING	
WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	LARGE MISSILE	
±70.0	±70.0	IMPACT	

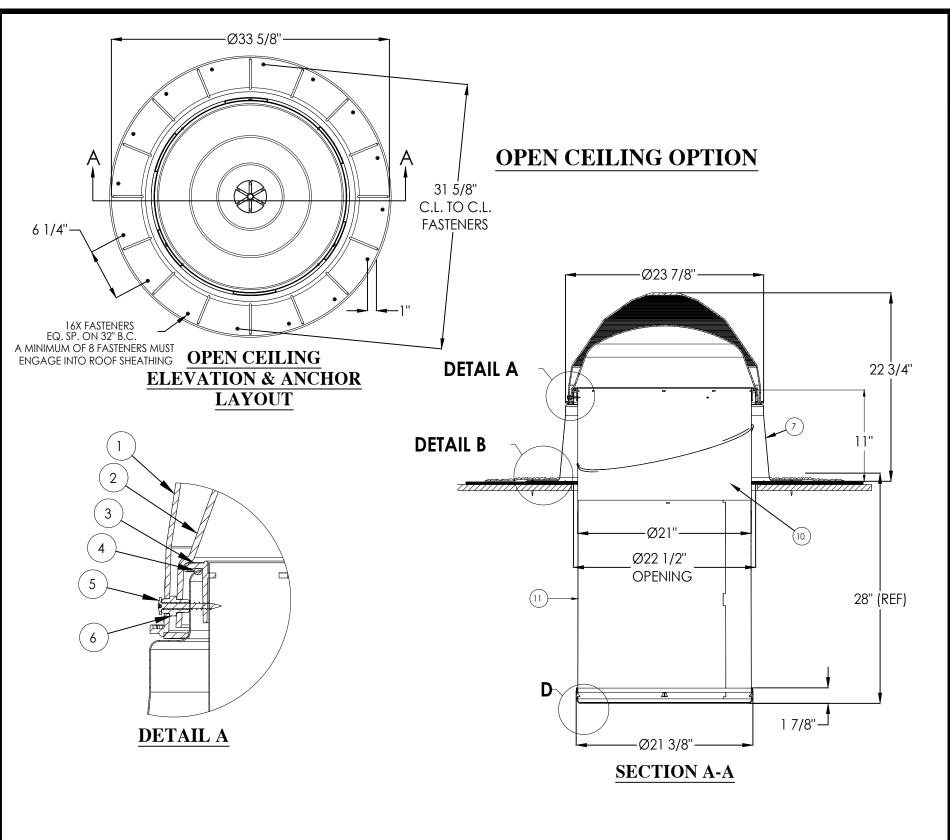
INSTALLATION NOTES:

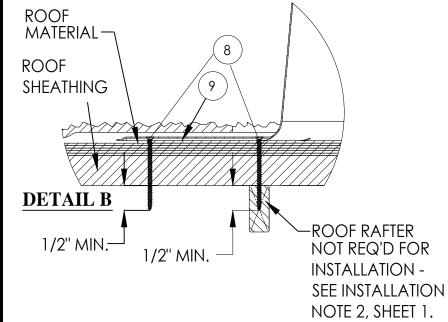
- 1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON SHEETS 2 AND 3.
- 2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ALL UNITS REQUIRE SIXTEEN (16) ANCHORS MINIMUM EQUALLY SPACED AROUND THE PERIMETER OF THE FLASHING. ANCHOR ENGINEERING BASED ON ENGAGEMENT INTO ROOF SHEATHING AND NOT 2X ROOF FRAMING.
- 2.1. INSTALLATION SHALL BE INTO 7/16" MINIMUM THICKNESS ROOF SHEATHING (SEE NOTE 6 BELOW).
- 2.2. IF TDD INSTALLATION LOCATION REQUIRES ANCHORS TO ENGAGE INTO 2X FRAMING, THAT IS ACCEPTABLE.

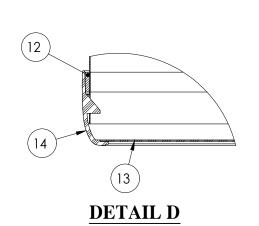
3. ANCHOR REQUIREMENTS;

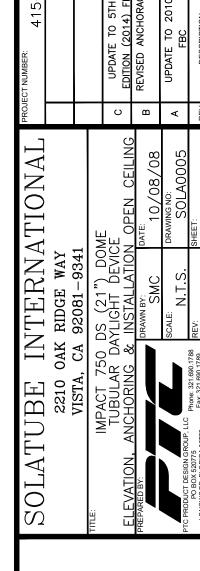
- 3.1. FOR INSTALLATION INTO 7/16" MINIMUM THICKNESS ROOF SHEATHING (SEE NOTE 6 BELOW), USE A #10 TYPE AB PAN HEAD, ROUND HEAD OR TRUSS HEAD TAPPING SCREWS MEETING ASME/ANSI B18.6.4 OF SUFFICIENT LENGTH TO ENSURE PROTRUDING SCREW THREADS AT LEAST 1/2" BEYOND THE INTERIOR SURFACE OF ROOF SHEATHING. EDGE DISTANCE FROM CENTERLINE OF SCREW TO EDGE OF SHEATHING SHALL BE AT LEAST 3/4 INCH.
 - 2. FOR INSTALLATION THROUGH ROOF SHEATHING INTO 2X WOOD ROOF FRAMING (SEE NOTE 6 BELOW), USE A #10 TYPE AB PAN HEAD, ROUND HEAD OR TRUSS HEAD TAPPING SCREWS MEETING ASME/ANSI B18.6.4 OF THE SAME LENGTH AS REQUIRED IN NOTE 3.1 ABOVE. EDGE DISTANCE FROM CENTERLINE OF SCREW TO EDGE OF SHEATHING SHALL BE AT LEAST 3/4 INCH.
- 4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE ROOF 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. ROOF SHEATHING THICKNESS, GROUP OR GRADE MAY BE MANDATED BY JURISDICATION REQUIREMENTS, THEREFORE THICKNESS AND GROUP/GRADE SHOWN BELOW WILL BE CONSIDERED MINIMUM.
- 6.1. 7/16" THICK PLYWOOD SPECIES GROUP 1 OR 2 (APA VOLUNTARY PRODUCT STANDARD PS 1) MINIMUM.
- 6.2. 7/16" OSB SHEATHING GRADE (APA VOLUNTARY PRODUCT STANDARD PS 2) MINIMUM.
- 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. FBC CHAPTER 26, LIGHT-TRANSMITTING PLASTIC SKYLIGHT GLAZING
- 7.3. 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.

	DESCRIPTION	REV	SHEET:	REV:	PO BOX 520775 Phone: 321.690.1788 LONGWOOD, FLORIDA 32752 Fax: 321.690.1789
12,	UPDAIE 10 2010 FBC	∢	DRAWING NO: SOLA0005	SCALE: N.T.S.	PTC PRODUCT DESIGN GROUP, LLC
4	REVISED ANCHORAGE	Ф	DATE: 10/08/08	DRAWN BY: SMC	PREPARED BY:
' <u>5</u> 0	UPDATE TO 5TH EDITION (2014) FBC	ပ	ie Kotes	TUBULAR DAYLIGHT DEVICE	TUBULAR DAYLIGHT DEVICE GENERAL AND INSTALLATION NOTES
			45	NS (21") DO	TITLE: IMPACT 750
				/ISTA, CA 92081-9341	VISTA, CA
				2210 OAK RIDGE WAY	2210 OAK
21	PROJECT NUMBER: 415-0316	PROJ	ATIONAL	ITERN/	SOLATUBE INTERNATIONAL



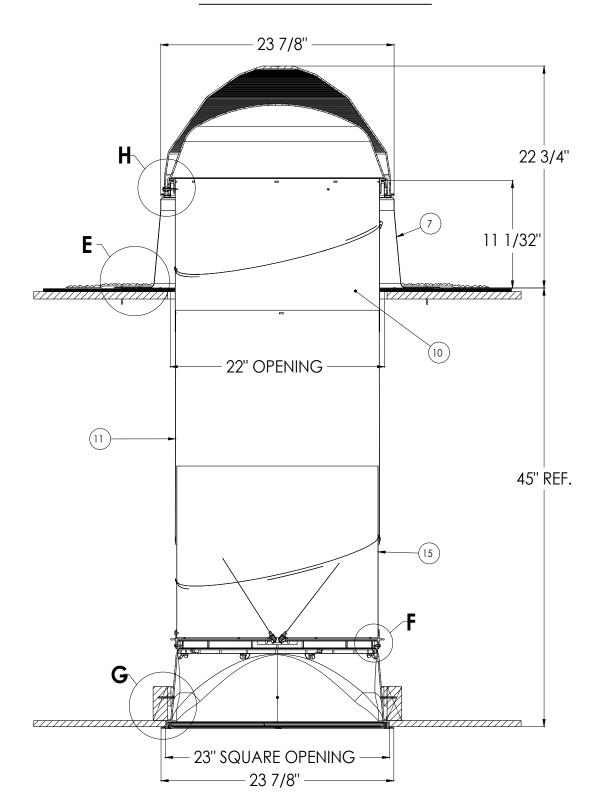






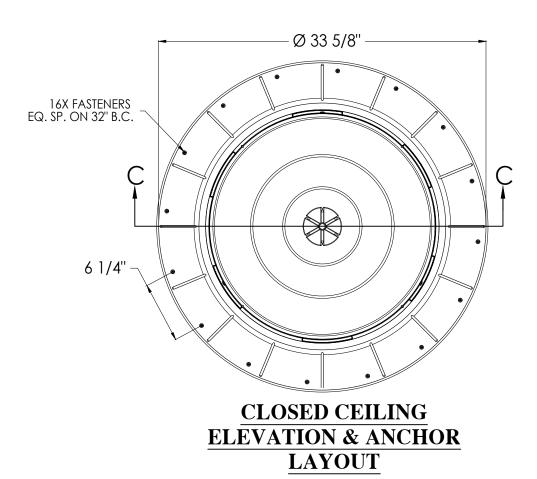
05/11/15

CLOSED CEILING

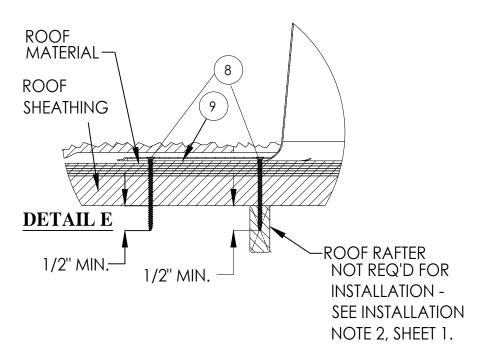


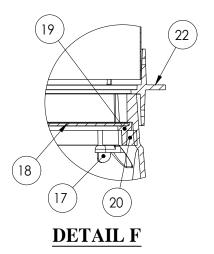
SECTION C-C

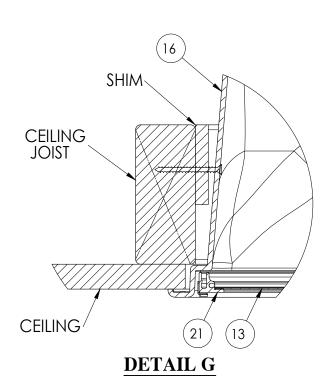
HARD CEILING INSTALLATION SHOWN. ALTERNATE SUSPENDED CEILING INSTALLATION APPROVED OPTION.

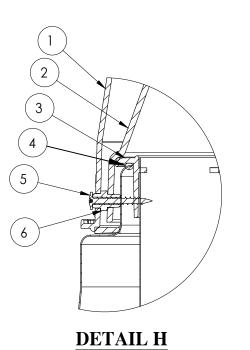


SOLATUBE INTERNATIONAL ANCHORING & INSTALLATION CLOSED CEILING PREPARED BY: PRODUCT DESIGN (2017) DOME C UPDATE TO 5TH 05/11/15 PREPARED BY: DRAWN BY:			_	_	_	_			_		_	
## SECTION ATTOM A	316				71/11/30	C1 /11 /C0	4 / 1 4 / 1 4	+1/+1/+	10/15/11	11/61/71		DATE
BE INTERNATIONAL 2210 OAK RIDGE WAY VISTA, CA 92081-9341 DACT 750 DS (21") DOME JBULAR DAYLIGHT DEVICE IORING & INSTALLATION CLOSED CEILING DRAWN BY: DRAWN BY: DRAWN BY: DRAWN BY: DRAWNING NO: SCALE: N.T.S. SCALE: N.T.S. SCALE: C SCALE: DRAWNING NO: SCALE: N.T.S. SCALE: SCALE: DRAWNING NO: SCALE: SCALE: DRAWNING NO: SCALE: N.T.S. SHEET: 3 OF 5					UPDATE TO 5TH	EDITION (2014) FBC	REVISED ANCHORAGE		UPDATE TO 2010	FBC		DESCRIPTION
SOLATUBE INTERNATIONAL 2210 OAK RIDGE WAY VISTA, CA 92081-9341 TITLE: IMPACT 750 DS (21") DOME TUBULAR DAYLIGHT DEVICE TO DRAWING NO: PTC PRODUCT DESIGN GROUP, LLC PRODUCT DESIGN GROUP,	PROJE				C	ì	α)	٧	(i	REV
SOLATUBE INTERNY 2210 OAK RIDGE WAY VISTA, CA 92081–9341 TITLE: IMPACT 750 DS (21") DOI TUBULAR DAYLIGHT DEVIC ELEVATION, ANCHORING & INSTALLATION PREPARED BY: PREPARED BY: PROPRIOTE DESIGN GROUP, LLC PTO PRODUCT DE	ATIONAL			ΛF		CLOSED CEILING	DATE:	10/08/08	DRAWING NO:	SOLA0005		3 OF 5
SOLATUBE IN S210 OAK VISTA, CA VISTA, CA VISTA, CA TITLE: IMPACT 750 TUBULAR DA TUBULAR	VTERN	RIDGE WAY	92081-9341	NS (21") DO	YYLIGHT DEVIC	NSTALLATION C	DRAWN BY:	SMC		N.T.S.		O
	SOLATUBE	2210 OAK	VISTA, CA		TUBULAR DA	FLEVATION, ANCHORING &	PREPARED BY:					









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

05/11/15

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OAK RIDGE WAY, CA 92081-9341

SOLATUBE

21" (750 DS) Parts List Combined									
Item No.	QTY.	Description	Material						
1	1	750 DS DOME	High Impact Acrylic (PMMA)						
2	1	INNER DOME PC	High Impact Lexan Polycarbonate						
3	1	TUBE RING 21"	PVC						
4	1	TUBE RING SEAL 21"	Butyl						
5	3	DOME SCREW #8 X 1-5/8"	Steel						
6	3	DOME SPACER 21"	Polyamide (Nylon)						
7	1	FLASHING 21"	Aluminized Steel EDDS T1-25 (Type 1)						
8	16	FLASHING SCREW #10 X 2"	Steel						
9	1	ROOF SEALANT	Urethane						
10	1	TOP TUBE ANGLE ADAPTER	Aluminum						
11	1	EXTENSION TUBE	Aluminum						
12	1	OPEN CEILING DIFFUSER SEAL	PVC Foam						
13	1	DIFFUSER PANEL	Medium Impact Acrylic (PMMA) OR Polycarbonate						
14	1	OPEN CEILING DIFFUSER DRESS RING	Medium Impact Acrylic (PMMA)						
15	1	BOTTOM TUBE ANGLE ADAPTER	Aluminum						
16	1	TRANSITION BOX	Medium Impact Acrylic (PMMA)						
17	8	NATURAL EFFECT LENS TAB	Medium Impact Acrylic (PMMA)						
18	1	NATURAL EFFECT LENS	Medium Impact Acrylic (PMMA)						
19	1	EFFECT LENS RETAINER RING	Medium Impact Acrylic (PMMA)						
20	1	EFFECT LENS SEAL	Polyethylene Foam						
21	1	DIFFUSER 21" FRAME ASSEMBLY	STEEL						
22	1	21" DAYLIGHT DIMMER (OPTIONAL)							