

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 DESIGN PRESSURE RATING 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.

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

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.

3.2.

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 JURISDICTION 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.

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
6	ALTERNATE METAL TRANSITION BOX & BOM
7	POLYMERIC ROUND TO SQUARE TRANSITION
8	ROUND CLOSED CEILING
9	ROUND OPEN CEILING

PROJECT NUMBER:	422-0615			
	E	UPDATE TO 8TH EDITION (2023) FBC	9/19/23	RJA
	D	UPDATE DRAWING FOR NEW INTERIOR OPTIONS	10/17/17	RJA
	C	UPDATE TO 5TH EDITION (2014) FBC	05/11/15	JBH
	B	REVISED ANCHORAGE	4/14/14	RJA
	A	UPDATE TO 2010 FBC	12/15/11	TJH
REV		DESCRIPTION	DATE	BY

SOLATUBE INTERNATIONAL

2210 OAK RIDGE WAY
VISTA, CA 92081-9341

TITLE:

IMPACT 750 DS (21") DOME TUBULAR DAYLIGHT DEVICE
GENERAL AND INSTALLATION NOTES

PREPARED BY:

DATE:

DRAWN BY:

SCALE:

REV:

10/08/08

DRAWING NO:

SOLA0005

SHEET:

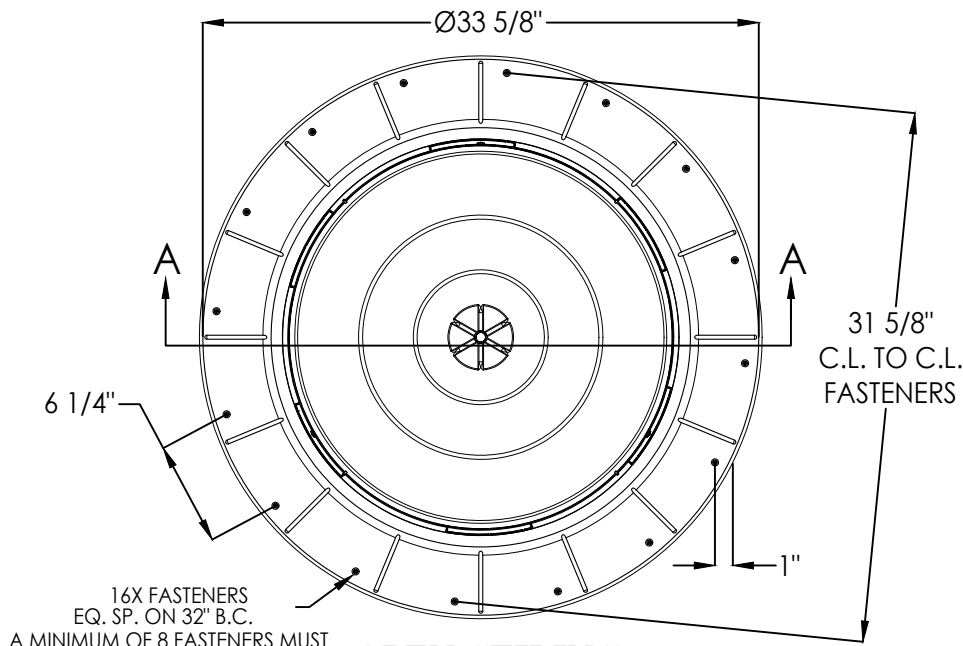
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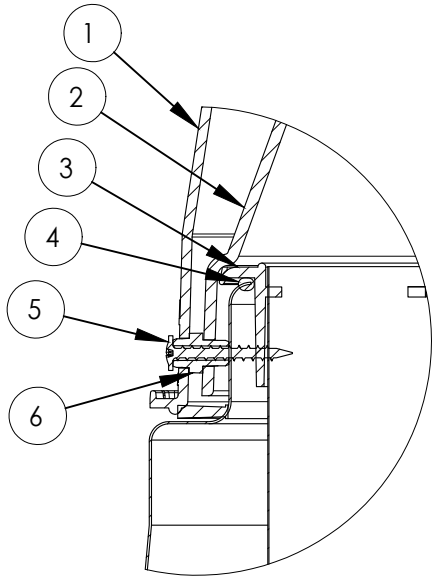
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

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

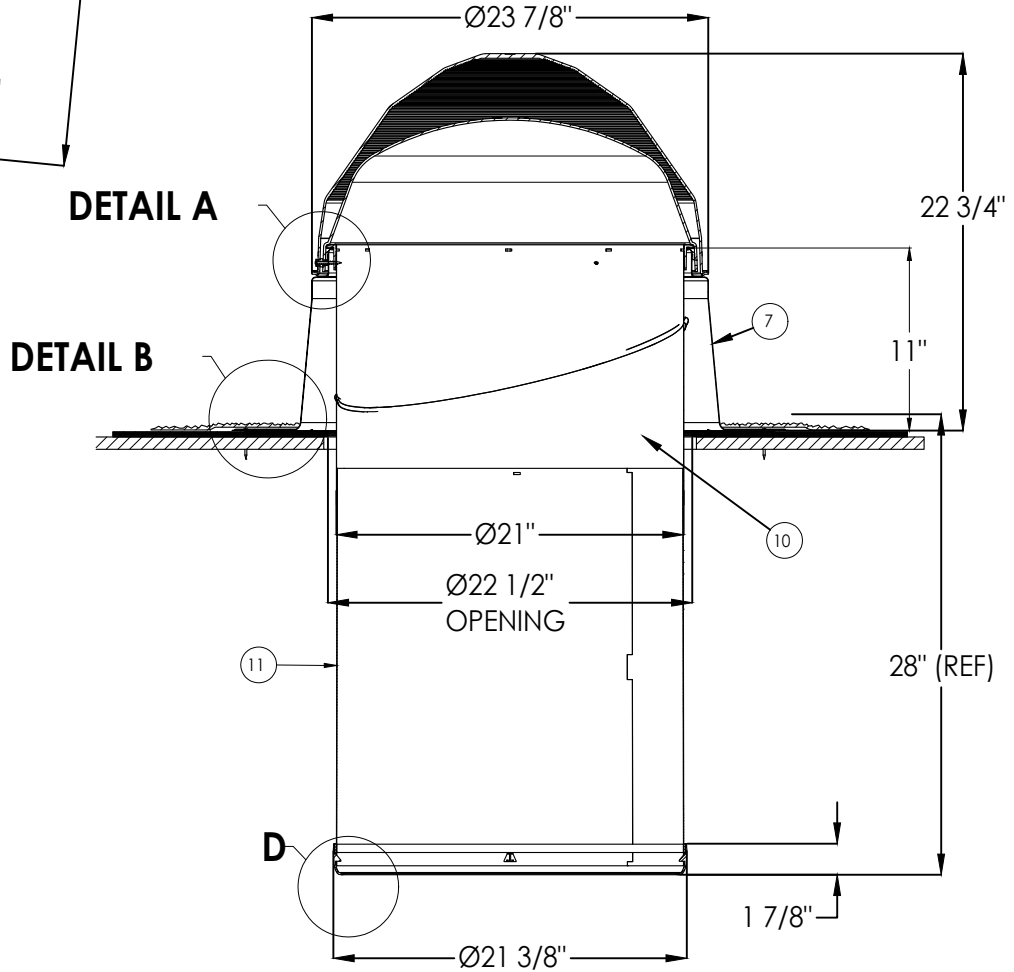


**OPEN CEILING
ELEVATION & ANCHOR
LAYOUT**

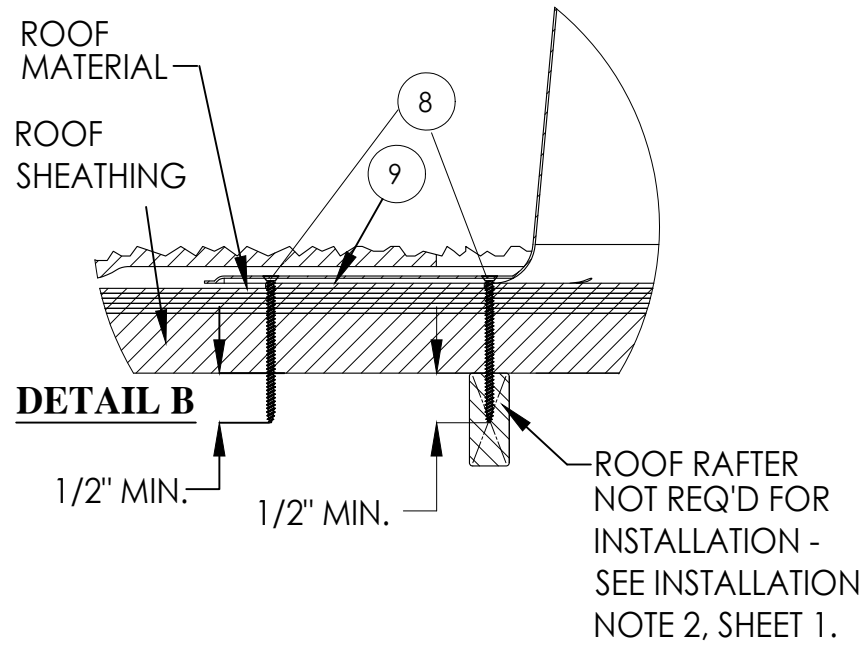


DETAIL A

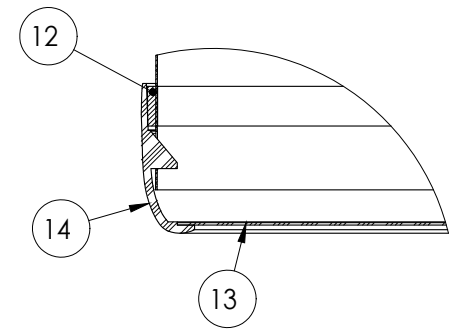
OPEN CEILING OPTION



SECTION A-A



DETAIL B



DETAIL D

PROJECT NUMBER: 422-0615		UPDATE TO 8TH EDITION (2023) FBC	RJA	9/19/23
E	D	UPDATE DRAWING FOR NEW INTERIOR OPTIONS	RJA	10/17/17
C	C	UPDATE TO 5TH EDITION (2014) FBC	JBH	05/11/15
B	B	REVISED ANCHORAGE	RJA	4/14/14
A	A	UPDATE TO 2010 FBC	TJH	12/15/11
REV	DESCRIPTION	DATE	BY	

SOLATUBE INTERNATIONAL
2210 OAK RIDGE WAY
VISTA, CA 92081-9341

TITLE: IMPACT 750 DS (21") DOME
TUBULAR DAYLIGHT DEVICE
ELEVATION, ANCHORING & INSTALLATION OPEN CEILING

PREPARED BY: SMC
DRAWN BY: N.T.S.
DATE: 10/08/08
SCALE: SOLA0005
REV: E

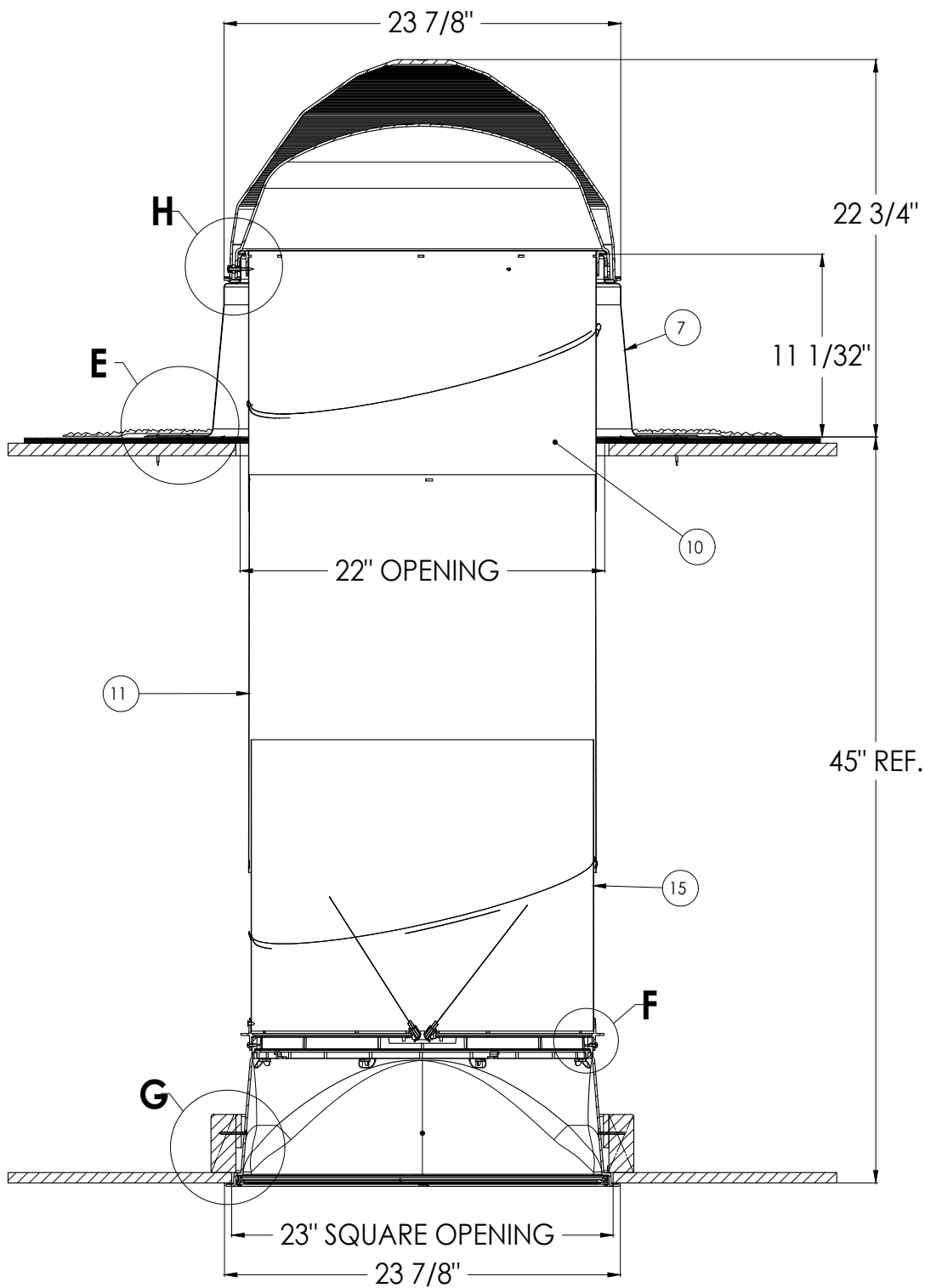
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

2 OF 9

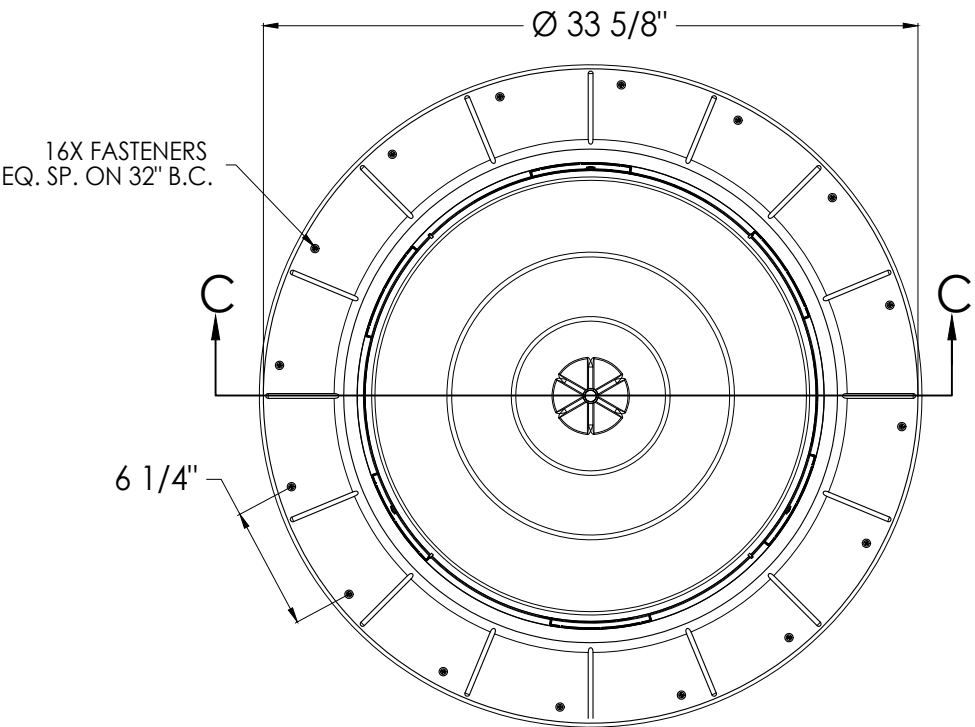
Robert J. Amoruso, P.E.
FL P.E. No. 49752

CLOSED CEILING



SECTION C-C

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

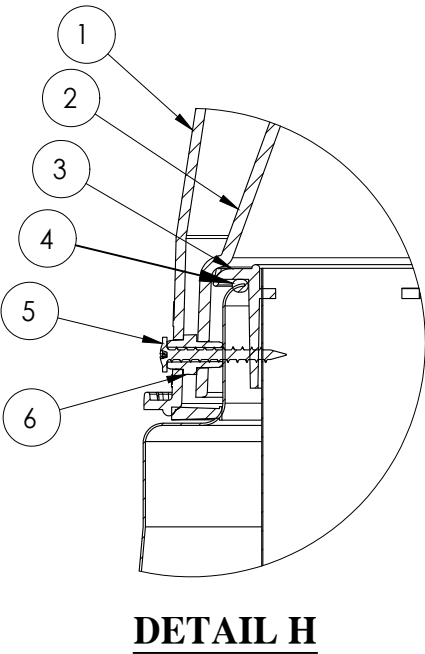
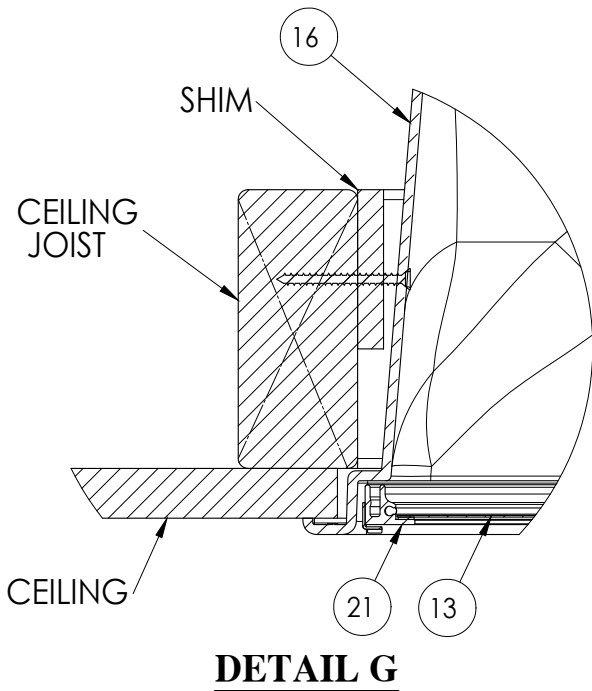
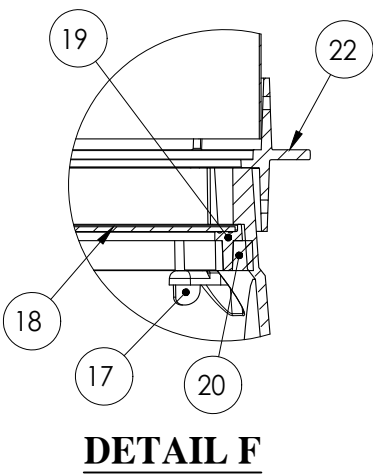
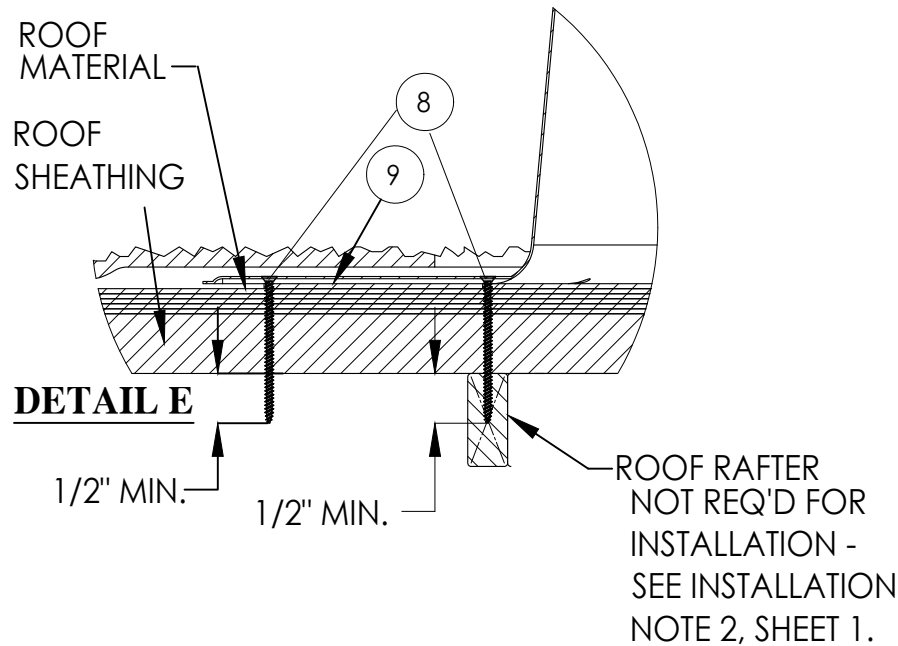


CLOSED CEILING
ELEVATION & ANCHOR
LAYOUT

PROJECT NUMBER: 422-0615		UPDATE TO 8TH EDITION (2023) FBC	9/19/23	RJA
E	D	UPDATE DRAWING FOR NEW INTERIOR OPTIONS	10/17/17	RJA
C	B	UPDATE TO 5TH EDITION (2014) FBC REVISED ANCHORAGE	05/11/15	JBH
A	REV	UPDATE TO 2010 FBC	4/14/14	RJA
		DATE	12/15/11	TJH
		DESCRIPTION		BY

SOLATUBE INTERNATIONAL		2210 OAK RIDGE WAY		VISTA, CA 92081-9341	
TITLE:		IMPACT 750 DS (21") DOME		TUBULAR DAYLIGHT DEVICE	
PREPARED BY:		ELEVATION, ANCHORING & INSTALLATION CLOSED CEILING		DATE: 10/08/08	
DRAWN BY:		SMC		DRAWING NO: SOLA0005	
SCALE:		N.T.S.		REV: E	
SHEET:		3 OF 9			
PTC PRODUCT DESIGN GROUP, LLC		PO BOX 520775		LONGWOOD, FLORIDA 32752	
FBPE C.A. NO. 25935		Phone: 321.690.1788		Fax: 321.690.1789	
		Email: info@ptc-corp.com			

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



PROJECT NUMBER: 422-0615				
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B	REVISED ANCHORAGE	4/14/14	RJA	
A	UPDATE TO 2010 FBC	12/15/11	TJH	
REV	DESCRIPTION	DATE	BY	

SOLATUBE INTERNATIONAL				
2210 OAK RIDGE WAY VISTA, CA 92081-9341				
TITLE: IMPACT 750 DS (21") DOME TUBULAR DAYLIGHT DEVICE ELEVATION, ANCHORING & INSTALLATION HARD CEILING				
PREPARED BY:	DRAWN BY: SMC	DATE: 10/08/08	DRAWING NO: SOLA0005	SHEET: 4 OF 9
 PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25935 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com	SCALE: N.T.S.	REV: E		

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

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)	

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A	REV	UPDATE TO 2010 FBC	4/14/14	RJA
		DESCRIPTION	12/15/11	TJH
			DATE	BY

SOLATUBE INTERNATIONAL

2210 OAK RIDGE WAY
VISTA, CA 92081-9341

TITLE:

IMPACT 750 DS (21") DOME
TUBULAR DAYLIGHT DEVICE
BILL OF MATERIALS

PREPARED BY:

DRAWN BY: SMC

DATE: 10/08/08

SCALE: N.T.S.

DRAWING NO: SOLA0005

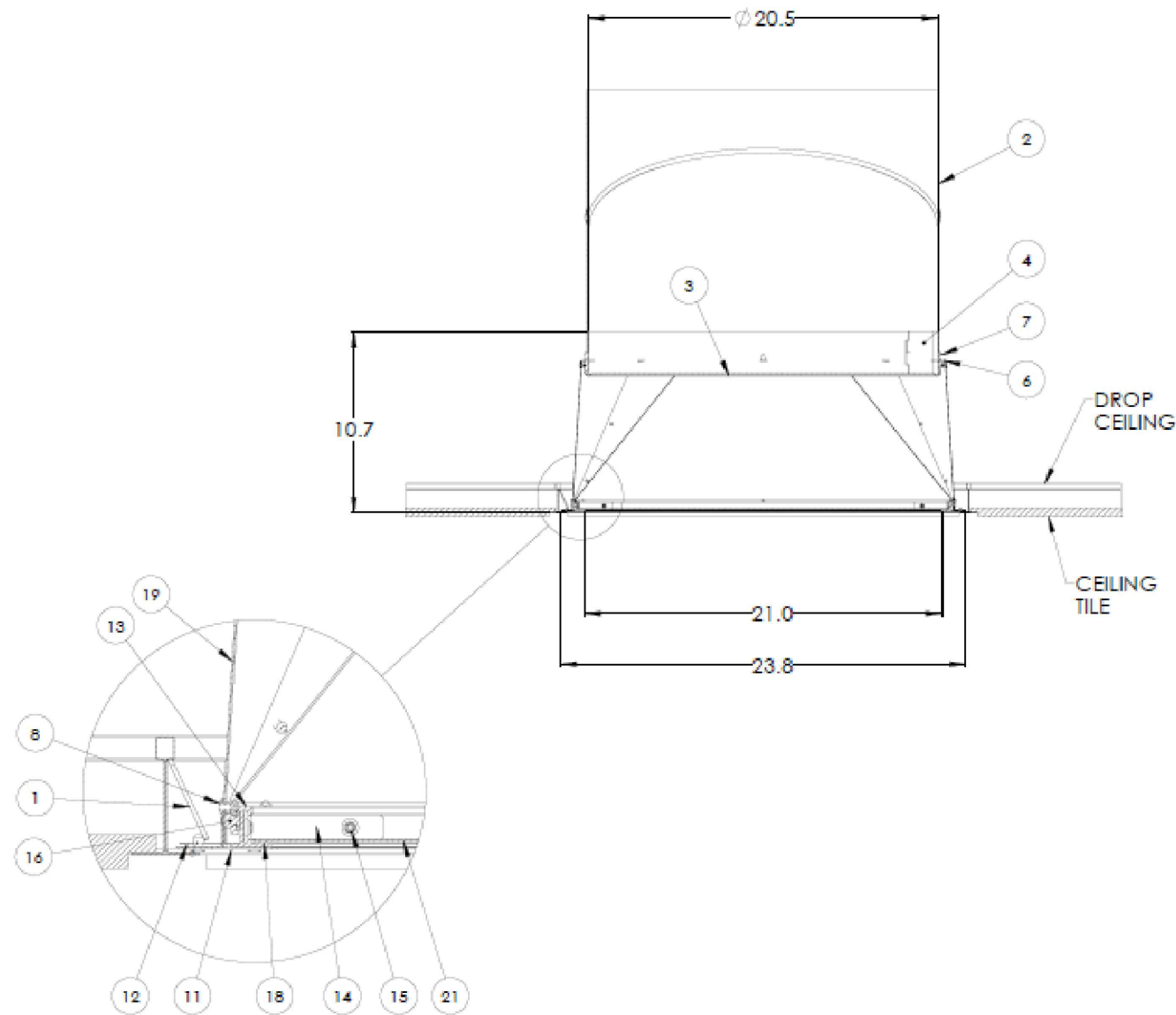
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PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

Phone: 321.690.1788
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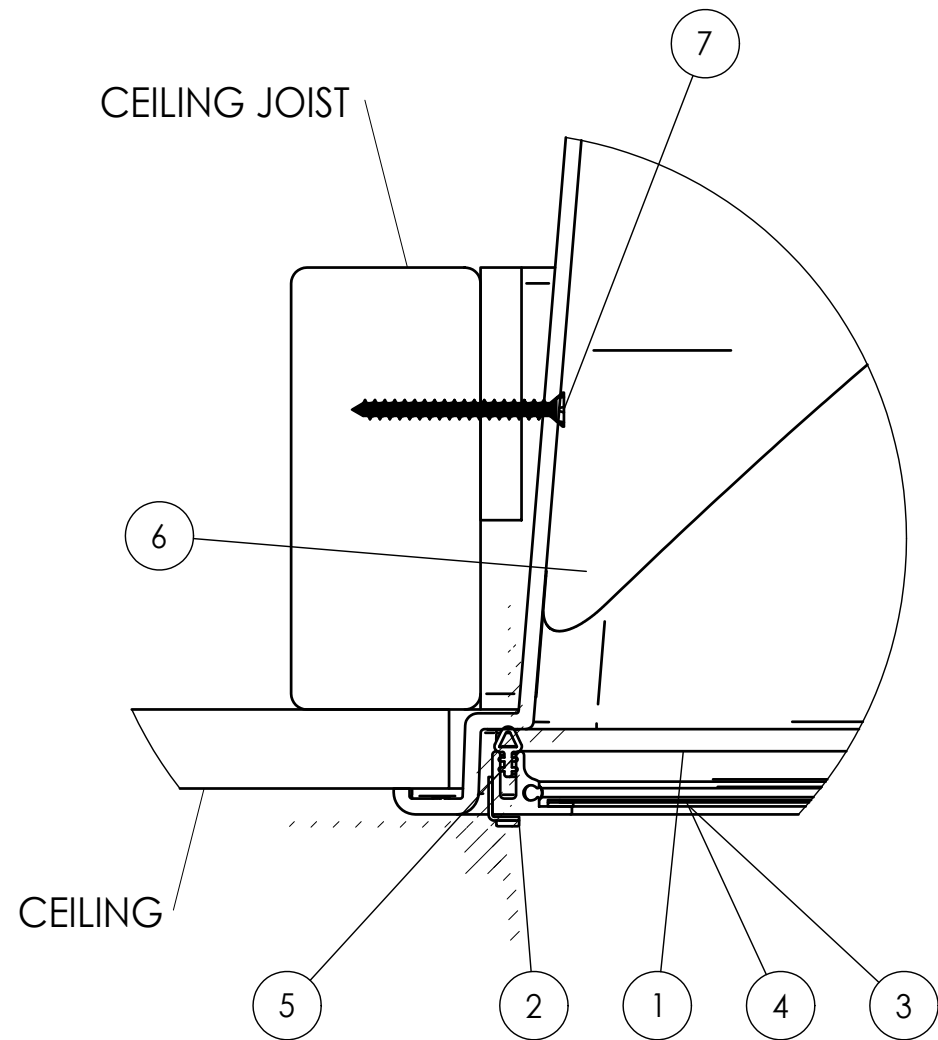
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	4	520090	CLIP 21" TRANS. HOLD DOWN
2	1	301730	TUBE 21" BOTTOM
3	1	422280	NAT EFFECT LENS 330 DS OTS
4	1	402215	TRANSITION ADAPTER BAND 330/750 DS
5	4	701210	CLIP NAT EFF LENS METAL TRANSITION (NOT SHOWN)
6	1	402230	TRANSITION BOX CAP 330/750 DS
7	1	600590	FOAM SEAL RECTANGLE
8	24	700635	RIVET 1/8 X 1/4 BLIND, MULTI
9	4	402180	TRANSITION TRIM SECTION
10	2	402250	TRANSITION TRIM CORNER BRACE (NOT SHOWN)
11	2	402325	TRANSITION TRIM LEVER
12	10	701180	RIVET 1/8 X 1/4 BLIND, MULTI WHITE
13	4	410475	EXTRUSION ALUM PAINTED MITERED
14	4	701130	CORNER KEY
15	8	701155	SET SCREW 8-32 X 1/8 CUP PT
16	4	600600	FOAM SEAL T-SLOT .250 X .270
17	1	400940	DIFFUSER PANEL (OPTIVIEW)
18	1	620150	TAPE FOAM 21" DIFFUSER
19	4	410775	TRANS PANEL DIMPLED 330/750 DS

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A	UPDATE TO 2010 FBC	12/15/11	TJH
REV	DESCRIPTION	DATE	BY

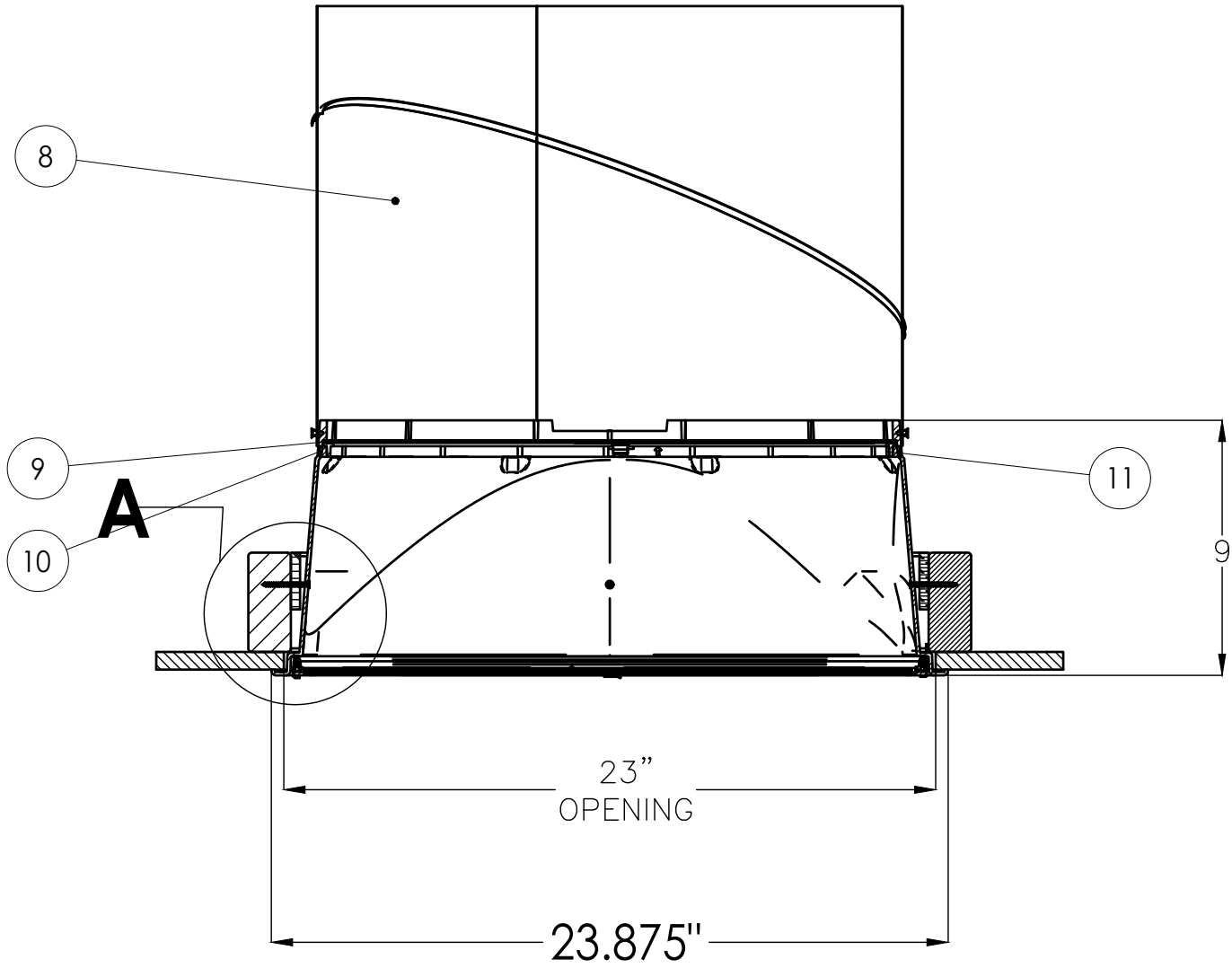
SOLATUBE INTERNATIONAL		2210 OAK RIDGE WAY VISTA, CA 92081-9341	
TITLE: IMPACT 750 DS (21") DOME TUBULAR DAYLIGHT DEVICE METAL TRANSITION BOX		DATE: 10/08/08	6 OF 9
PREPARED BY: SMC	SCALE: N.T.S.	DRAWING NO: SOLA0005	REV: E
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25935 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com			

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

750 DS SOLATUBE
POLYMERIC ROUND TO
SQUARE TRANSITION



DETAIL A
SCALE 4 : 1



REVISIONS				
ECO	REV.	DESCRIPTION	DATE	INC.
	1	INITIAL RELEASE	3/14/2008	CS

PROJECT NUMBER: 422-0615				
E	UPDATE TO 8TH EDITION (2023) FBC	9/19/23	RJA	
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B	REVISED ANCHORAGE	4/14/14	RJA	
A	UPDATE TO 2010 FBC	12/15/11	TJH	
REV	DESCRIPTION	DATE	BY	

SOLATUBE INTERNATIONAL

2210 OAK RIDGE WAY
VISTA, CA 92081-9341

TITLE:

IMPACT 750 DS (21") DOME
TUBULAR DAYLIGHT DEVICE
POLYMERIC ROUND TO SQUARE TRANSITION

PREPARED BY:

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

DRAWN BY:

SMC

SCALE:

N.T.S.

DATE:

10/08/08

DRAWING NO:

SOLA0005

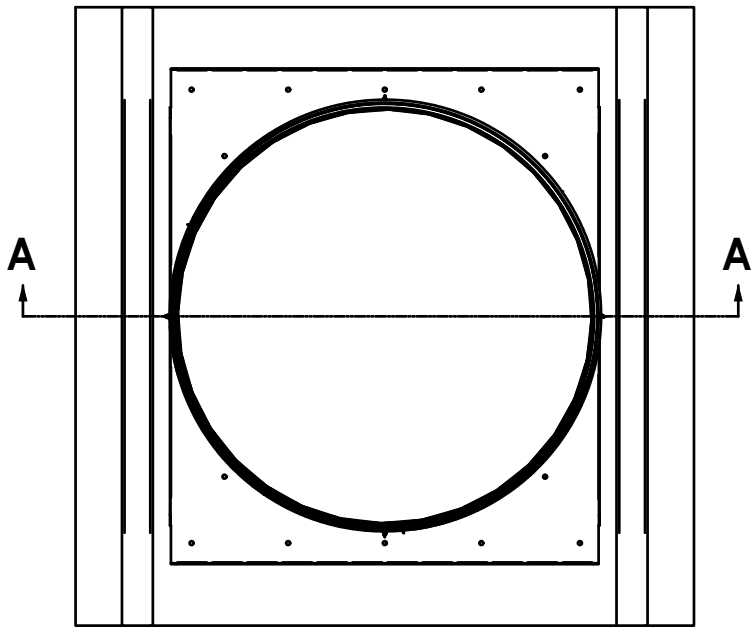
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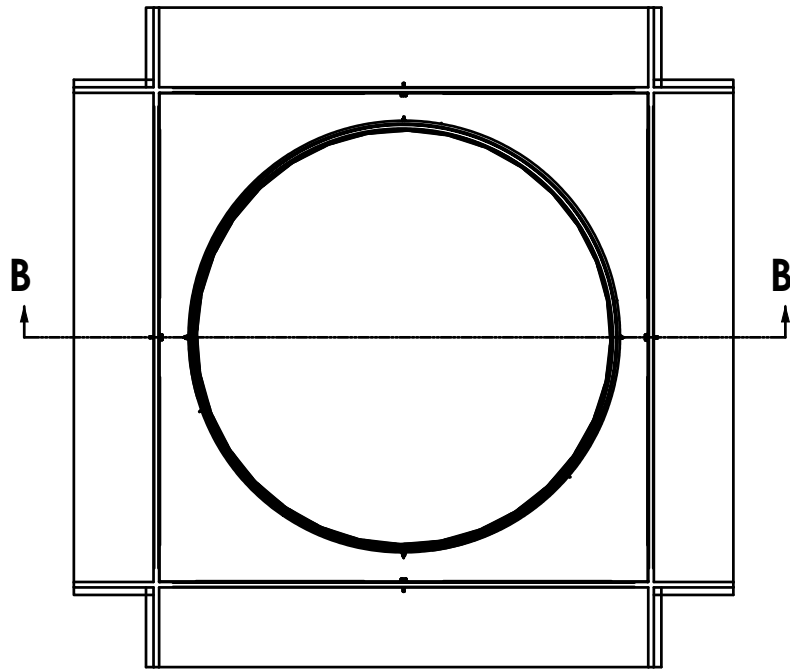
SHEET:

7 OF 9

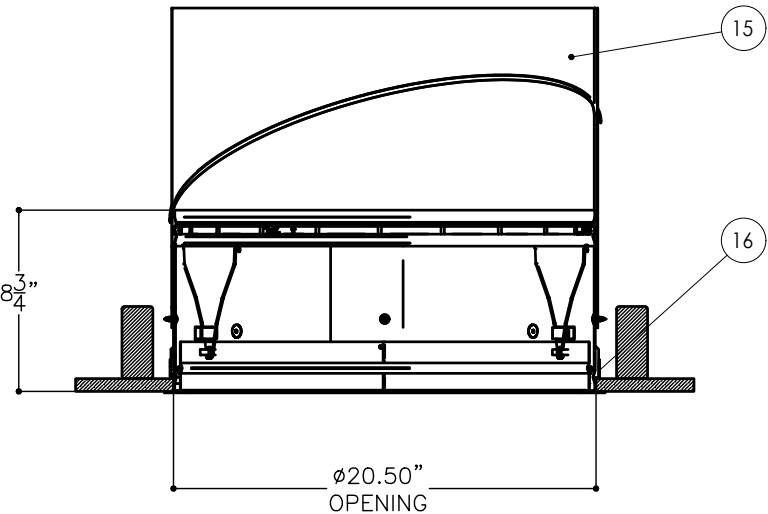
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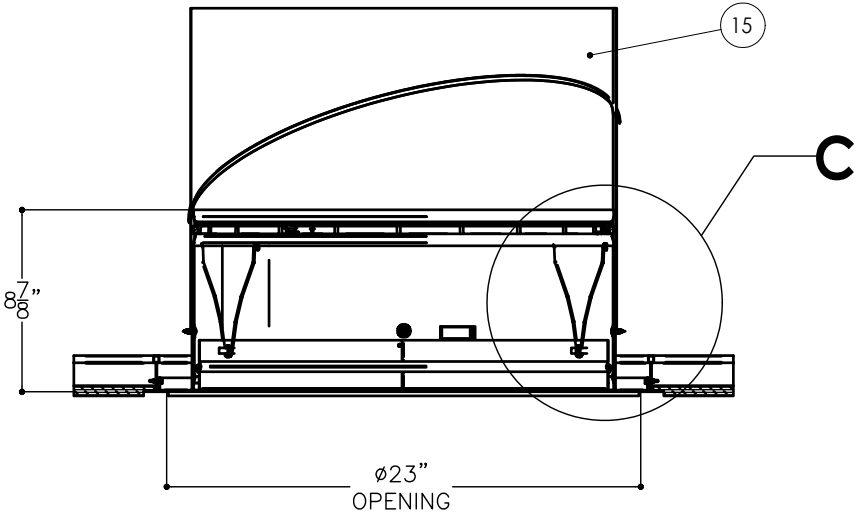
HARD CEILING



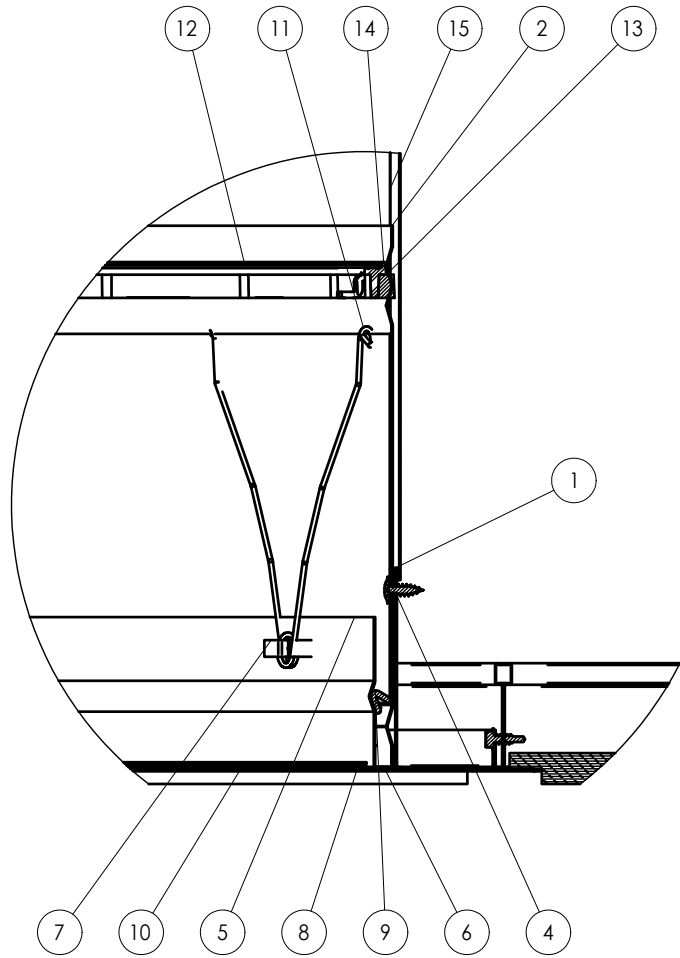
SUSPENDED CEILING



SECTION A-A



SECTION B-B



750 DS SOLATUBE ROUND
CLOSED CEILING

ITEM NO.	QTY.	PART NO.	DESCRIPTION	NOTES
1	1	401930	PRISMATIC DOME 750 DS	ACRYLIC
2	1	509400	DOME PC 330 DS	POLYCARBONATE
3	1	400785	DOME RING 21"	
4	1	600240	TUBE RING SEAL 21"	
5	3	700860	SCREW #8x1.5" SMS	
6	3	700870	SPACER 21"	
7	1	200860	FLASHING 21"	
8	16	700480	SCREW #10 X 2" SMS	20 QTY. REQUIRED FOR HVWZ
9	1	700280	SEALANT URETHANE	AS REQUIRED
10	1	301710	TUBE 750 DS ANGLE ADAPTER	
11	1	301770	TUBE 24" EXTENSION 21"	
12	1	301730	TUBE BOTTOM 21"	
13	1	401880	RTS TRANSITION 21"	
14	8	400795	RTS LENS TAB	
15	1	400150	NATURAL EFFECTS LENS	
16	1	401070	LENS RETAINER RING	
17	1	600260	LENS SEAL	
18	1	402010/20	DIFFUSER 21" FRAME ASSEMBLY	VUSION OR OPTIVIEW LENS

PROJECT NUMBER: 422-0615			
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REV		DESCRIPTION	DATE

SOLATUBE INTERNATIONAL

2210 OAK RIDGE WAY
VISTA, CA 92081-9341

TITLE:

IMPACT 750 DS (21") DOME
TUBULAR DAYLIGHT DEVICE
ROUND CLOSED CEILING

PREPARED BY:

DATE: 10/08/08

DRAWN BY: SMC

DRAWING NO: SOLA0005

SCALE: N.T.S.

SHEET: 8 OF 9

REV: E

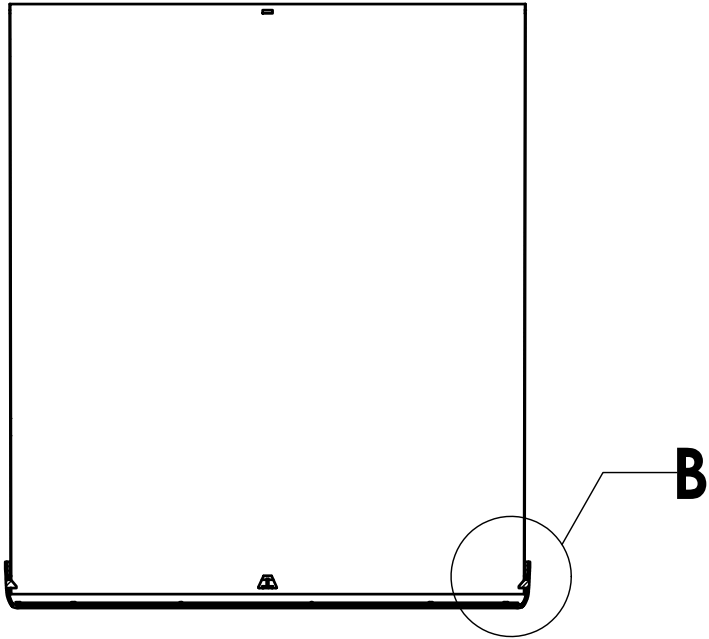
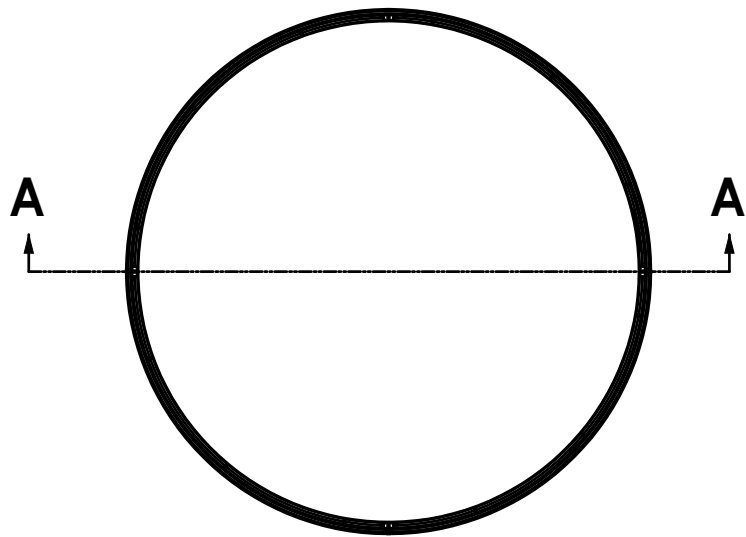
REV: E

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LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

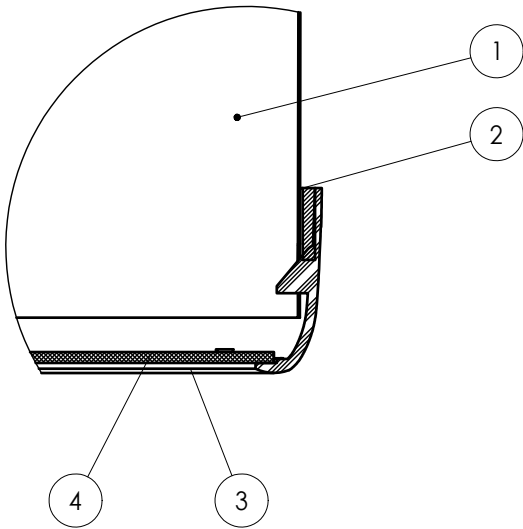
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

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

750 DS SOLATUBE ROUND
OPEN CEILING



SECTION A-A



DETAIL B
SCALE 4 : 1

OPTIONAL COMPONENTS				
ITEM NO.	330 DOME/ QTY.	PART NO.	DESCRIPTION	NOTES
19	1	570003	21" DAYLIGHT DIMMER	

PROJECT NUMBER: 422-0615				
E	UPDATE TO 8TH EDITION (2023) FBC	9/19/23	RJA	
D	UPDATE DRAWING FOR NEW INTERIOR OPTIONS	10/17/17	RJA	
C	UPDATE TO 5TH EDITION (2014) FBC	05/11/15	JBH	
B	REVISED ANCHORAGE	4/14/14	RJA	
A	UPDATE TO 2010 FBC	12/15/11	TJH	
REV	DESCRIPTION	DATE	BY	

SOLATUBE INTERNATIONAL

2210 OAK RIDGE WAY
VISTA, CA 92081-9341

TITLE:

IMPACT 750 DS (21") DOME
TUBULAR DAYLIGHT DEVICE
ROUND OPEN CEILING

PREPARED BY:

DATE: 10/08/08

DRAWN BY:

DRAWING NO:

SCALE:

SOLA0005

REV:

SHEET: 9 OF 9

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935

Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

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