



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Design Plastics, Inc.
701 North Andrews Avenue
Ft. Lauderdale, FL 33311

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida building Code.

DESCRIPTION: Self Curbing and Curb Mount Skylights

APPROVAL DOCUMENT: Drawing No. 12-160, titled "Details for Self Curbing and Curb Mount Skylights, Components for Self Curbing and Curb Mount Skylights, and Basic Dimensions Charts / General Notes", sheets # 1 through 5 of 5, prepared by Design Plastics, Inc., dated August 17, 2000 with last revision dated October 11, 2012 signed and sealed by Walter A. Tillit Jr., P.E. bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large & Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein and the dome shall be properly marked by the manufacturers of Implex Acrylic, Atofina Chemical, Inc.

RENEWAL of this NOA shall not be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-0510.03 and consists of this page 1, evidence submitted pages E-1, E-2 and E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
12/20/2012

NOA No. 12-1019.16
Expiration Date: 05/10/2015
Approval Date: 12/20/2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0201.01

A. DRAWINGS

1. *Drawing prepared by Design Plastics, Inc., titled " Details & Components for Self Curbing Skylights, Details & Components for Curb Mount Skylights and Basic Dimensions Charts/General Notes", drawing without number, dated 08/17/00, last revision on 12/21/04, sheet 1 through 5 of 5, signed & sealed by W. A. Tillit Jr., PE.*
2. *Die drawings prepared by Tifton Aluminum Company, Inc., titled DPI 7 & DPI 10, dated 05/15/97 & 05/20/97, drawn by M.W.B.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on "Series: Double Dome Curb Mount, & Self Curb Acrylic Skylight", prepared by Fenestration Testing Laboratory, Inc., Laboratory No. 2608, dated 04/05/2000, signed and sealed by A. P. Gonzalez, PE.*

C. CALCULATIONS

1. *Anchor calculations, dated 08/09/00, pages 1 through 4 of 4, prepared by Tilteco, Inc, Revised on 04/12/01, signed and sealed by W. A. Tillit, PE.*

D. STATEMENTS

1. *Letter of Test compliance issued by Fenestration Testing Laboratory, on 04/20/00, signed and sealed by A.P. Gonzalez, PE.*
2. *Letter of No-financial interest issued by Tilteco, Inc. dated 08/22/00, signed and sealed by W. A. Tillit, Jr. PE.*
3. *Code compliance letter issued by Tilteco, Inc., on 08/22/00, signed and sealed by W. A. Tillit, Jr. PE.*
4. *No change letter issued by Design Plastics, Inc., dated 04/26/04, signed by G. Taylor.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0330.03

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-1019.16
Expiration Date: 05/10/2015
Approval Date: 12/20/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0610.08

A. DRAWINGS

1. *Drawing No. 09-077, titled " Details & Components for Self Curbing Skylights, Details & Components for Curb Mount Skylights and Basic Dimensions Charts / General Notes ", sheets # 1 through 5 of 5, prepared by Design Plastics, Inc., dated August 17, 2000 with last revision dated May 20, 2009 signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculation titled "Revision of Current Miami-Dade County Product Approval for 2007 Florida Building Code High Velocity Hurricane Zone ", dated May 22, 2009, 7 pages, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *FBC 2007 edition Code compliance letter issued by Tilteco, Inc., dated May 26, 2009, signed and sealed by Walter A. Tillit, Jr., P.E.*

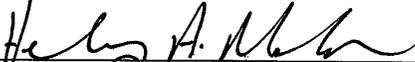
4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0510.03

A. DRAWINGS

1. *Drawing No. 09-077, titled " Details & Components for Self Curbing Skylights, Details & Components for Curb Mount Skylights and Basic Dimensions Charts / General Notes ", sheets # 1 through 5 of 5, prepared by Design Plastics, Inc., dated August 17, 2000 with last revision dated May 20, 2009 signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on "Series: Curb Mount double Dome Curb Mounted Acrylic Skylight", prepared by Fenestration Testing Laboratory, Inc., Laboratory No. 6260, dated 06/23/2010, signed and sealed by Jorge A. Causo, PE.*



Henry A. Makar, P.E., M.S.
Product Control Unit Supervisor

NOA No. 12-1019.16

Expiration Date: 05/10/2015

Approval Date: 12/20/2012

Design Plastics, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on "Series: Double Dome Self Curb Acrylic Skylight", prepared by Fenestration Testing Laboratory, Inc., Laboratory No. 6266, dated 06/23/2010, signed and sealed by Jorge A. Causo, PE.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

F. STATEMENTS

1. *FBC 2007 edition Code compliance letter issued by Tilteco, Inc., dated May 26, 2009, signed and sealed by Walter A. Tillit, Jr., P.E.*

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 12-160, titled " Details for Self Curbing and Curb Mount Skylights, Components for Self Curbing and Curb Mount Skylights, and Basic Dimensions Charts / General Notes ", sheets # 1 through 5 of 5, prepared by Design Plastics, Inc., dated August 17, 2000 with last revision dated October 11, 2012 signed and sealed by Walter A. Tillit Jr., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

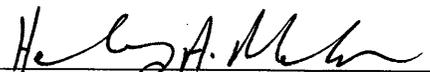
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

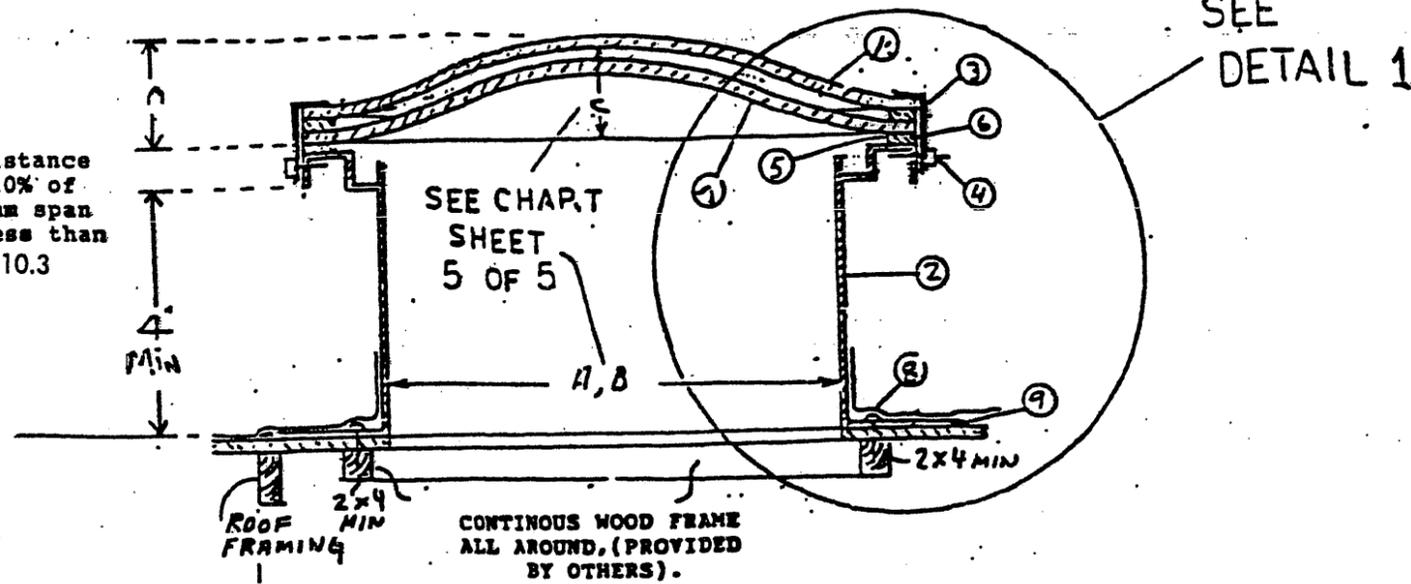
F. STATEMENTS

1. *FBC 2010 edition Code compliance letter issued by Tilteco, Inc., dated October 11, 2012, signed and sealed by Walter A. Tillit, Jr., P.E.*



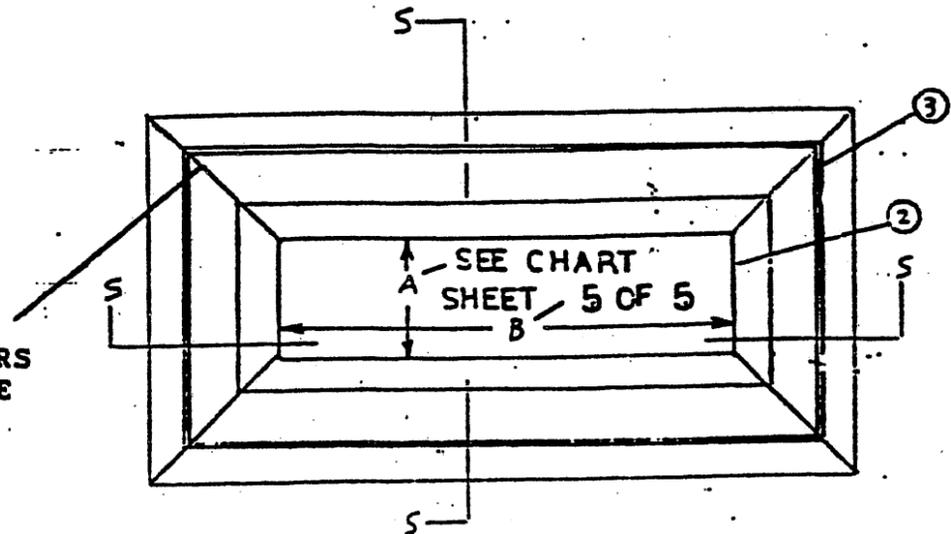
Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-1019.16
Expiration Date: 05/10/2015
Approval Date: 12/20/2012

C = Minimum distance equal to 10% of the maximum span but not less than 3". FBC 2610.3



TYPICAL SECTION S-S

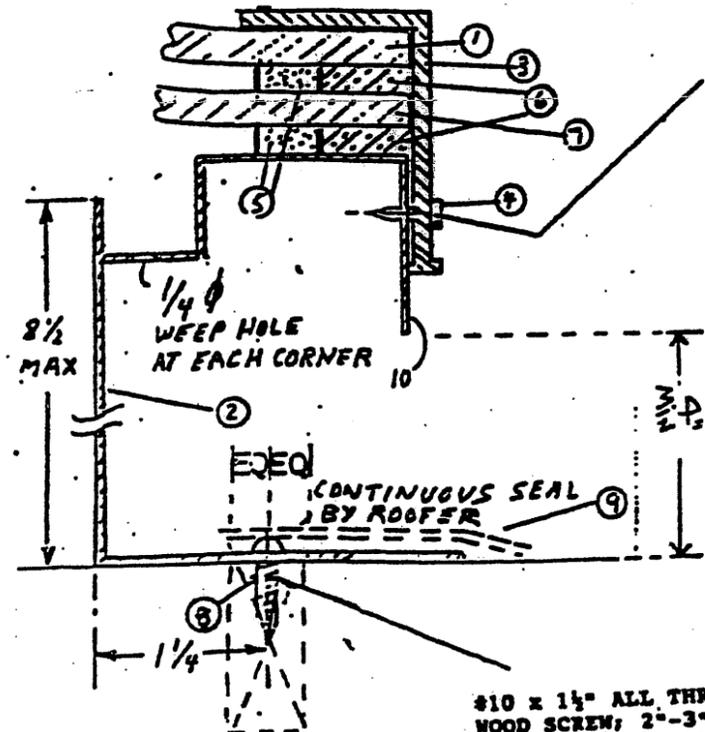
MITERED AND BUTT WELDED (TYP) 4 CORNERS WITH ELECTRODE ER 5356



TYPICAL PLAN

SELF CURBING SKYLIGHT: BILL OF MATERIAL

PN	DESCRIPTION
1	1/4" Implex acrylic dome by ARKEMA INC, which must bear a Miami-Dade County approved NOA
2	CURB FRAME; 6063 TS ALUM. ALLOY
3	RETAINER FRAME; 6063 TS ALUM. ALLOY
4	#8 X 1/2" LONG HEX HEAD SELF TAPPING SHEET METAL SCREW
5	1/4" x 1/2" BACKING TAPE
6	GE SCS 2000 SILPDRIF SILKONE
7	OPTIONAL 1/4" IMPLEX DOME, SAME AS 1
8	#10 x 1 1/2" ALL THREADED WOOD SCREW, NON-CORROSIVE
9	SEALING MEMBRANE BY ROOFER * SEE NOTES 1 & 2



DETAIL 1

NON-CORROSIVE #8 x 1/2" LONG HEX-HEAD SELF-DRILLING SCREW. 2"-3" FROM EACH CORNER. 10" O.C. THEREAFTER.

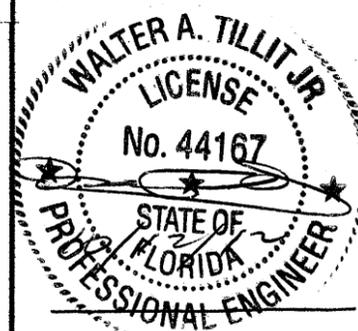
- Notes*
- 1) All roofing details shall comply with chapter 15, sections 1512 thru 1525 of the Florida Building Code.
 - 2) 4" minimum distance is required from curb frame end to roof surface for shingle or BUR without insulation. For insulation and roof tile, add tile height and insulation thickness to this 4" minimum height.

#10 x 1 1/2" ALL THREADED WOOD SCREW; 2"-3" FROM EACH CORNER; BALANCE AT 10" O.C. (MAX) THEREAFTER.

A.S.D.
PRESSURE
RATING
+- 100
P.S.F.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-1019.16
Expiration Date 05/10/2015
By *Walter A. Tillit Jr.*
Miami Dade Product Control

MIAMI-DADE COUNTY



P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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e-mail: tilteco@aol.com
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

DESIGN PLASTICS, INC.
701 N. ANDREWS AVE. FT. LAUD., FL. 33311

SCALE: NTS

APPROVED BY:

DRAWN BY GT

DATE: 8/17/00

REVISED: 10/11/12

DETAILS FOR SELF CURBING SKYLIGHTS

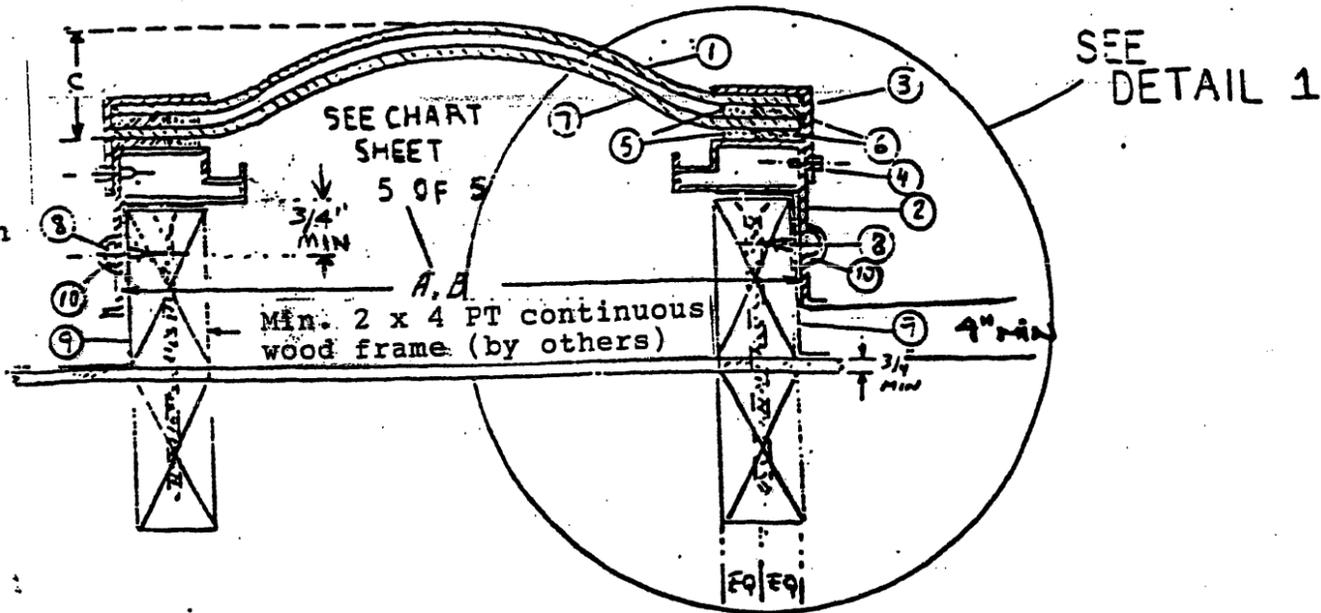
DRAWING No. 12-160

OLD 09-077

DRAWING NUMBER
1 OF 5

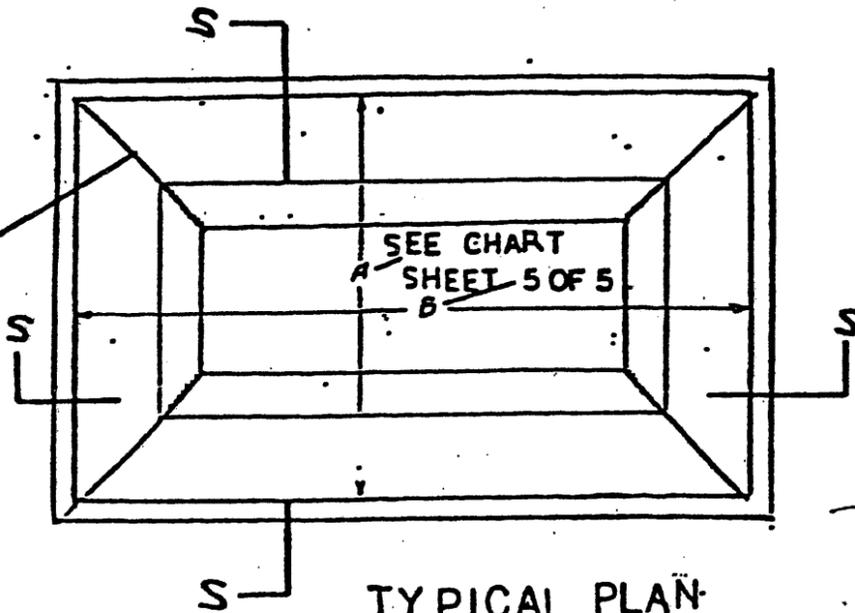
SEE CHART 5 OF 5

C = Minimum distance equal to 10% of the maximum span but not less than 3". FBC 2610.3



TYPICAL SECTION S-S

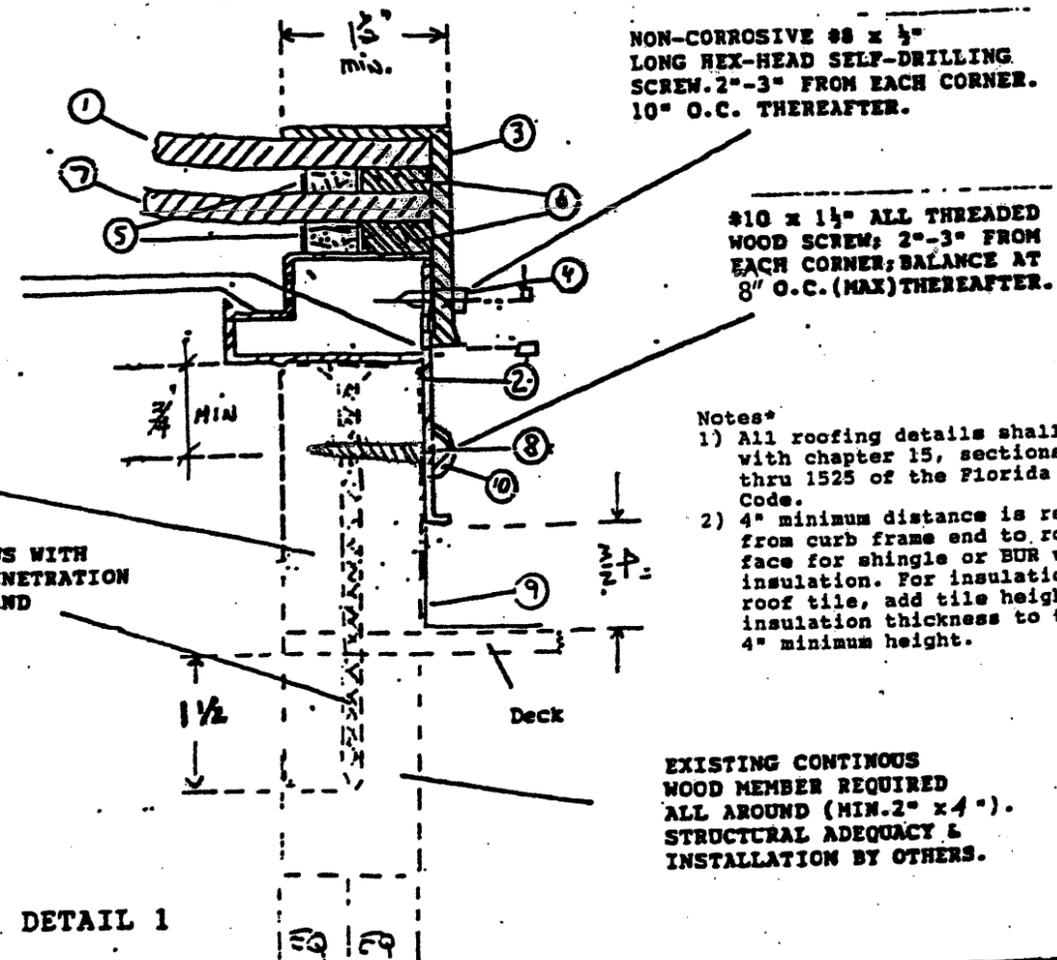
MITERED AND BUTT WELDED (TYP) 4 CORNERS WITH ELECTRODE ER 5356



TYPICAL PLAN

CURB-MOUNT SKYLIGHT: BILL OF MATERIALS

PN	DESCRIPTION
1	1/4" Implex acrylic dome by ARKEMA INC, which must bear a Miami-Dade County approved NOA.
2	CURB FRAME; 6063 TS ALUM. ALDY
3	RETAINER FRAME; 6063 TS ALUM. ALDY
4	#8 X 1/2" LONG HEX HEAD SELF TAPPING SHEET METAL SCREW
5	1/4" X 1/2" BACKING TAPE
6	GE SCS 2800 SILPANE SILICONE
7	OPTIONAL 1/4" IMPLEX DOME, SAME AS 1
8	#10 X 1 1/2" ALL THREADED WOOD SCREW; NON-CORROSIVE
9	FLASHING/SEALING MEMBRANE BY ROOFER * SEE NOTES 1 & 2
10	APPROVED SEALANT BY OTHERS



DETAIL 1

- Notes*
- 1) All roofing details shall comply with chapter 15, sections 1512 thru 1525 of the Florida Building Code.
 - 2) 4" minimum distance is required from curb frame end to roof surface for shingle or BUR without insulation. For insulation and roof tile, add tile height and insulation thickness to this 4" minimum height.

EXISTING CONTINUOUS WOOD MEMBER REQUIRED ALL AROUND (MIN. 2" x 4"). STRUCTURAL ADEQUACY & INSTALLATION BY OTHERS.

A.S.D.
PRESSURE RATING
+- 100
P.S.F.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-1019.16
Expiration Date 05/10/2015
By *Walter A. Tillit Jr.*
Miami Dade Product Control

WALTER A. TILLIT JR.
LICENSE
No. 44167
10/11/12
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE
(HIGH VELOCITY HURRICANE ZONE)
©2012 TILTECO, INC.
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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e-mail: tilteco@tillit.com
EB-0006719
WALTER A. TILLIT JR. P.E.
FLORIDA Lic. # 44167

DESIGN PLASTICS, INC.
701 N. ANDREWS AVE. FT. LAUD., FL. 33311

SCALE: NTS APPROVED BY: DRAWN BY GT
DATE: 8/17/00 REVISED: 10/11/12

DETAILS FOR CURB MOUNT SKYLIGHTS

DRAWING No. 12-160 OLD 09-077 DRAWING NUMBER 3 OF 5

MIAMI-DADE COUNTY

**BASIC DIMENSIONS CHART
FOR SELF CURBING SKYLIGHTS**

DL2001	A	B	C*
			INCHES
001	14.25	14.25	4
002	14.25	22.25	4
003	14.25	46.25	4
004	19	19	4
005	22.25	22.25	4
006	22.25	37	4
007	22.25	46.25	4
008	22.25	69.50	4
009	22.25	89.50	4
010	30.25	30.25	4
011	30.25	46.25	4
012	30.25	69.25	4
013	37	37	4
014	37	75	4
015	46.25	46.25	5
016	46.25	69.25	5
017	46.25	89.25	5
018	55	55	6
019	57.25	89.25	6
020	69.50	69.50	7
021	69.50	89.50	7

C = Minimum distance equal to 10% of the maximum span but not less than 3". FBC 2610.3

**BASIC DIMENSIONS CHART
FOR CURB MOUNTING SKYLIGHTS**

DL3001	A	B	C*
			INCHES
001	17.25	17.25	4
002	17.25	25.25	4
003	17.25	49.25	4
004	22	22	4
005	25.25	25.25	4
006	25.25	40	4
007	25.25	49.25	4
008	25.25	72.50	4
009	25.25	92.50	4
010	33.25	33.25	4
011	40	40	4
012	33.25	49.25	4
013	33.25	72.50	4
014	40	78	4
015	49.25	49.25	4
016	49.25	72.50	5
017	49.25	92.25	5
018	58	58	6
019	60.50	92.50	6
020	72.50	72.50	7
021	72.50	92.50	7

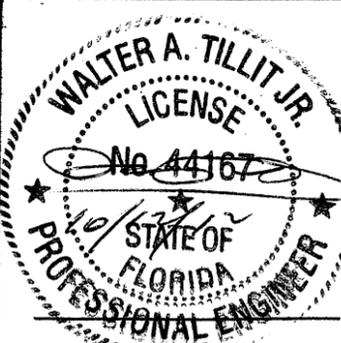
General Notes

- Skylight shown on this Product Approval Document (P.A.D.) has been verified for compliance with the 2010 edition of the Florida Building Code as per Fenestration Testing Laboratory Report # 2608. Skylight may be installed within High Velocity Hurricane Zones. Design loads shall be determined as per Chapter 30 of ASCE 7-10 for a basic wind speed per section 1620 of the Florida Building Code.
- Skylight assembly shall be installed separated from each other a distance of no less than 4-0 measured in a horizontal plane per Florida Building Code 2612.4.4.2.
- Where exterior wall openings on a building are required to be fire rated, skylight shall not be installed within 6'-0" of such exterior wall, per Florida Building Code 2612.4.4.3.
- This skylight shall comply with section 2612.4.4.1 of the Florida Building Code.
- Acrylic sheet shall be as manufactured by Arkema, Inc. - Implex Acrylic Sheets, and must bear a current Miami Dade County Approval.
- Screws to be all threaded with minimum yield strength of 80,000 p.s.i. and to be manufactured of non-corrosive materials or protected by a rust resistant coating that shall comply with the following.

<u>Material</u>	<u>Specifications</u>
Zinc Plated	ASTM B633
Nickel & Chrome plated	ASTM B456 type SC
Cadmium plated	ASTM B766, class 8 type II and III
Austenitic stainless steel	ASTM B593 & B594
- Finishes of aluminum extrusions (when applicable) shall conform to

<u>Finish</u>	<u>Specifications</u>
Pigmented organic coating	AAMA 2603, 2604 or 2605
Anodized	AAMA 611
- Skylight supporting frame shall be structurally designed by others.
- (A) This Product Approval Document (P.A.D.) prepared by this engineer is generic and does not provide information for a site specific project; 1.e. where the site conditions deviate from the P.A.D.
 (B) Contractor to be responsible for the selection, purchase and installation including life safety of this product base don this Product Approval provided he/she does not deviate from the conditions detailed on this document. Construction safety at site is the contractor's responsibility.
 (C) This Product Approval Document will be considered invalid if modified.
 (D) Site specific projects shall be prepared by a Florida Registered Engineer or Architect which will become the Professional of Record (P.O.R.) for the project and who will be responsible for the proper use of the P.A.D.
 (E) This P.A.D. shall comply with section 2: 61G15 of the Florida Administrative Code.

CHARTS INCLUDE STANDARD SIZES LISTED ABOVE
CHARTS DO NOT INCLUDE CUSTOM SIZES UP TO LARGEST SIZE LISTED

PRODUCT REVISED as complying with the Florida Building Code Acceptance No <u>12-1019-16</u> Expiration Date <u>05/10/2015</u> By <u>Walter A. Tillit Jr.</u> Miami Dade Product Control MIAMI-DADE COUNTY	 P.E. SEAL/SIGNATURE/DATE	FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE) © 2012 TILTECO, INC. TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 39th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531 e-mail: Tilteco@aol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	DESIGN PLASTICS, INC. 701 N. ANDREWS AVE. FT. LAUD., FL. 33311 SCALE: <u>NTS</u> APPROVED BY: _____ DATE: <u>8/17/00</u> DRAWN BY <u>GT</u> REVISED: 10/11/12 BASIC DIMENSIONS CHARTS / GENERAL NOTES DRAWING No. <u>12-160</u> OLD <u>09-077</u> DRAWING NUMBER <u>5 OF 5</u>
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