



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

www.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

Design Plastics, Inc.
701 North Andrews Avenue
Fort 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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 Florida building Code including the High Velocity Hurricane Zone.

DESCRIPTION: Self Curbing and Curb Mount Skylights

APPROVAL DOCUMENT: 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. bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

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 **renews NOA # 09-0610.08** 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
 07/21/2010

NOA No. 10-0510.03
Expiration Date: 05/10/2015
Approval Date: 07/21/2010
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.
Senior Product Control Examiner
NOA No. 10-0510.03
Expiration Date: 05/10/2015
Approval Date: 07/21/2010

Design Plastics, Inc.

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. NEW EVIDENCE SUBMITTED

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.*



**Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner**

NOA No. 10-0510.03

Expiration Date: 05/10/2015

Approval Date: 07/21/2010

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

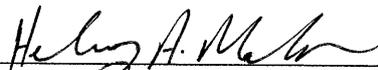
1. *By Miami-Dade County Building Code Compliance Office.*

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.*



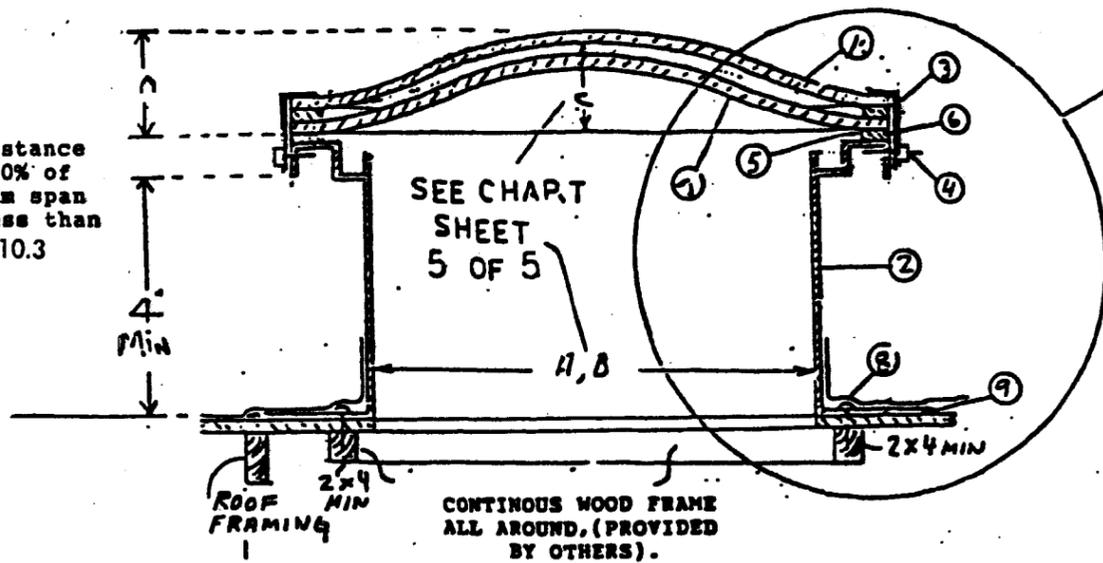
Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner

NOA No. 10-0510.03

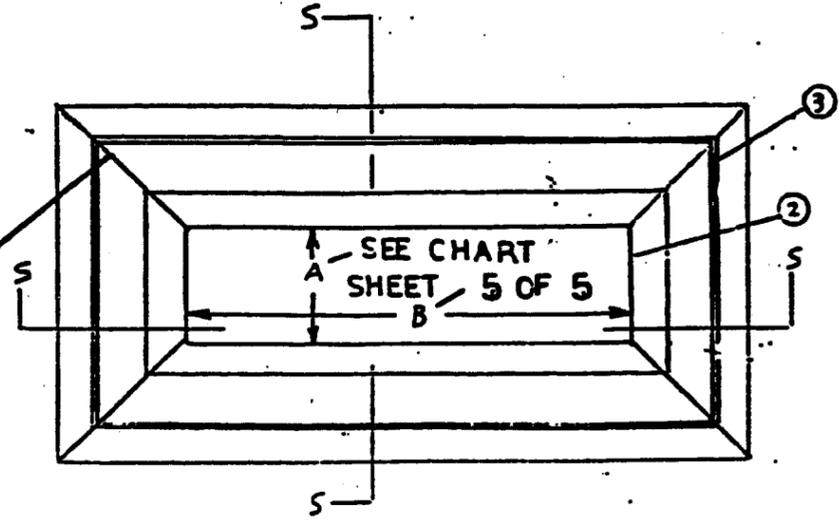
Expiration Date: 05/10/2015

Approval Date: 07/21/2010

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



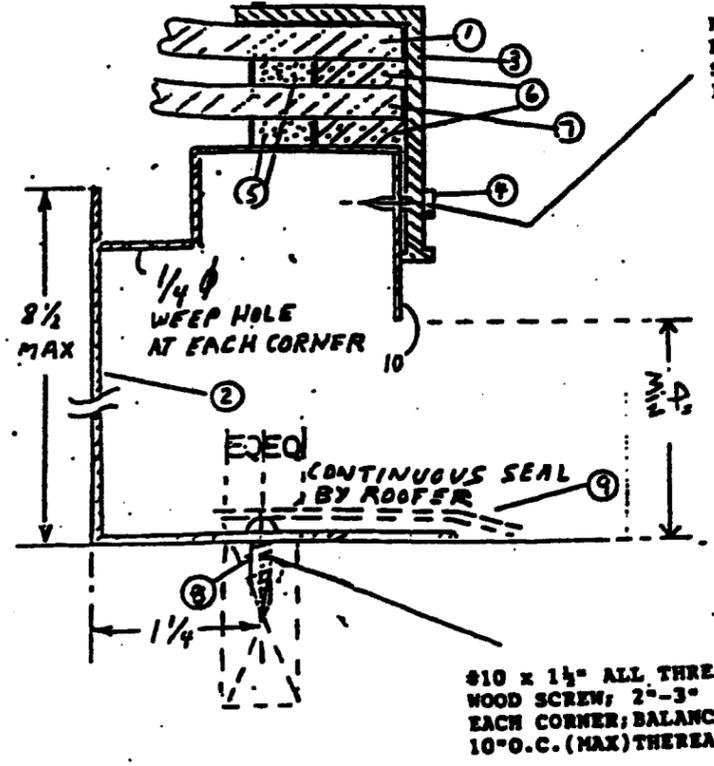
TYPICAL SECTION S-S



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 2800 SIL/PURF SILICONE
7	OPTIONAL 1/4" IMPLEX DOME, SAME AS 1
8	#18 X 1 1/2" ALL THREADED WOOD SCREW; NON-CORROSIVE
9	SEALING MEMBRANE BY ROOFER * SEE NOTES 1 & 2



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.

DETAIL 1

PRESSURE RATING
± 100
P.S.F.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 10-0510.03
Expiration Date 05/10/2015
By *Helmy A. Maher*
Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 09-0610.08
Expiration Date 05/10/2010
By *Helmy A. Maher*
Miami Dade Product Control Division

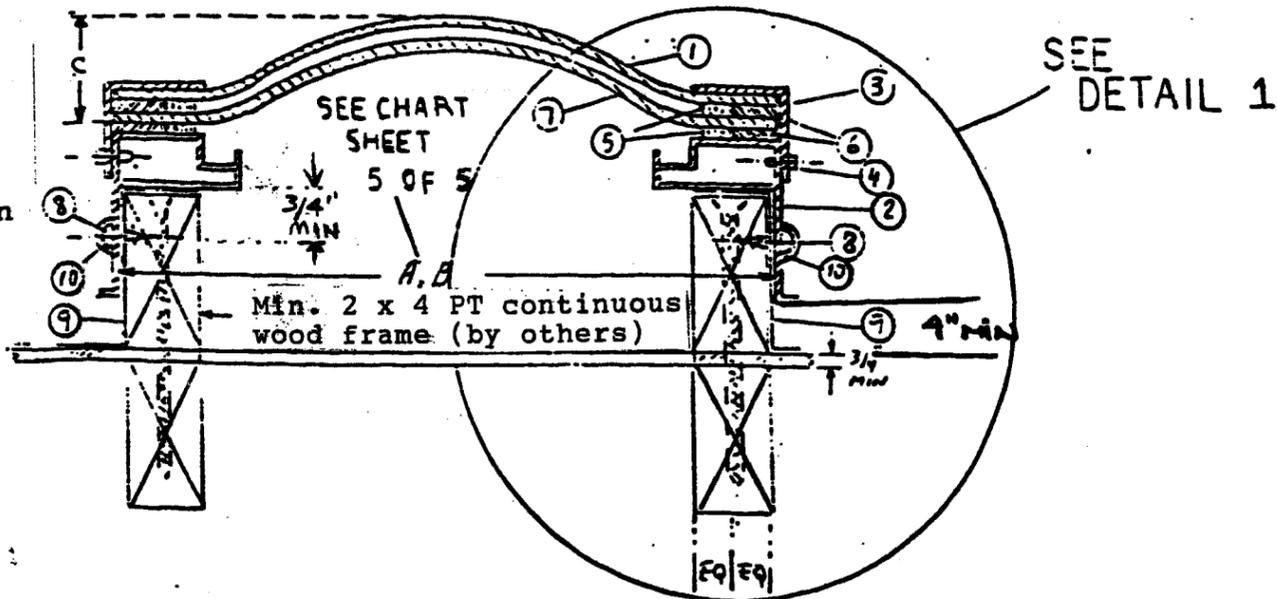
TILTECO INC.
TILLIT-TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719
Walter A. Tillit Jr.
6/3/09
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL LIC. NO. 44167

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

SCALE: NTS	APPROVED BY:	DRAWN BY: GT
DATE: 8/17/00		REVISED: 05/20/09
DETAILS FOR SELF CURBING SKYLIGHTS		
Drawing #09-077		DRAWING NUMBER 1 OF 5

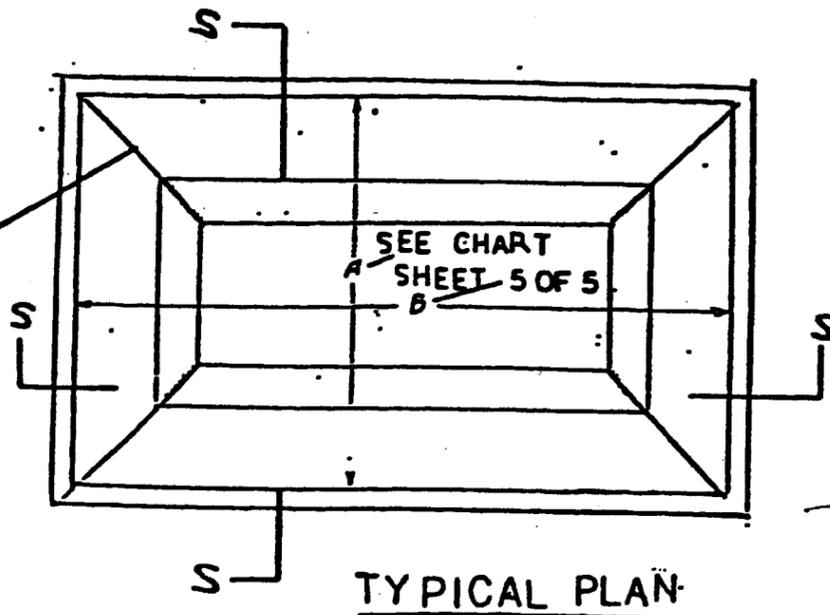
SEE CHART 5 OF 5

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



TYPICAL SECTION S-S

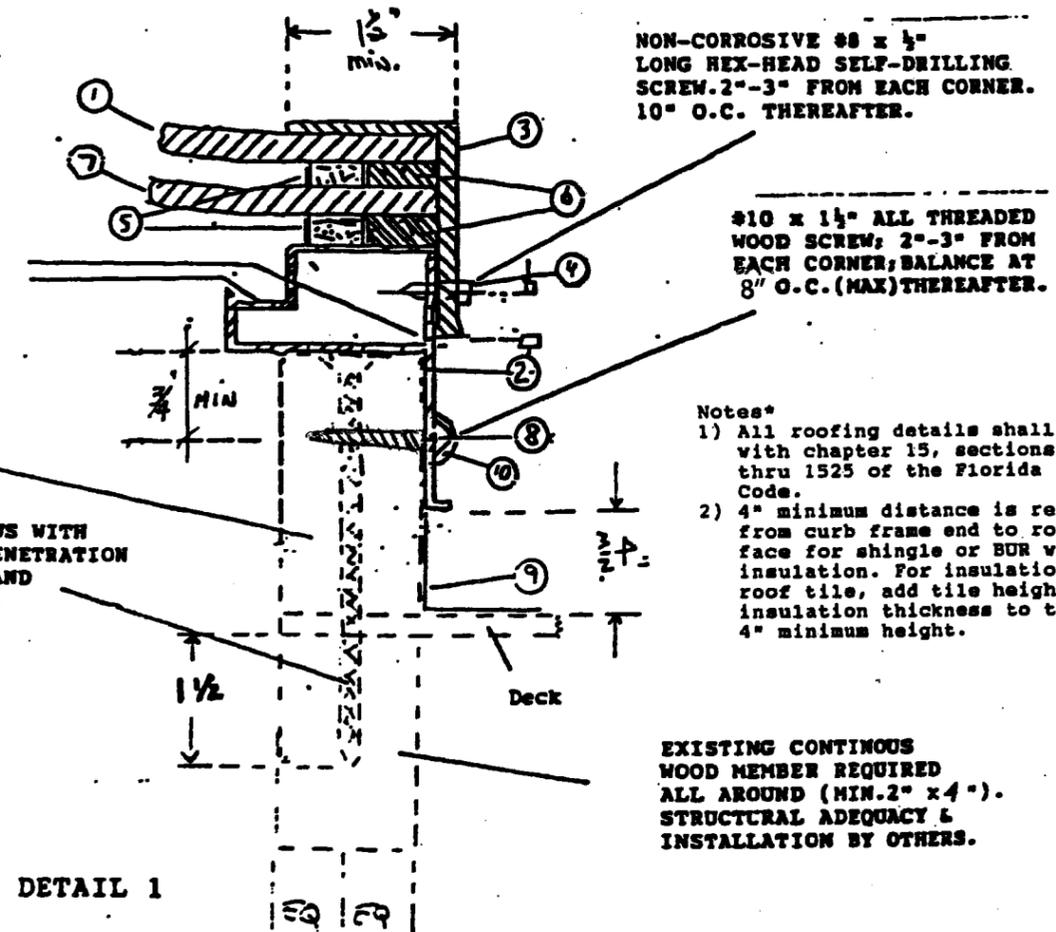
MITERED AND BUTT WELDED (TYP) 4 CORNERS WITH ELECTRODE ER 5356



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. 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 SILPDMF SILICONE
7	OPTIONAL 1/4" IMPLEX DOME, SAME AS 1
8	#18 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.

PRESSURE RATING
+- 100
P.S.F.

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 10-0510.03
Expiration Date 05/10/2015
By *Heather A. Miller*
Miami Dade Product Control Division

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 09-0610.08
Expiration Date 05/10/2010
By *Heather A. Miller*
Miami Dade Product Control Division

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

Walter A. Tillit Jr.
6/3/09
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

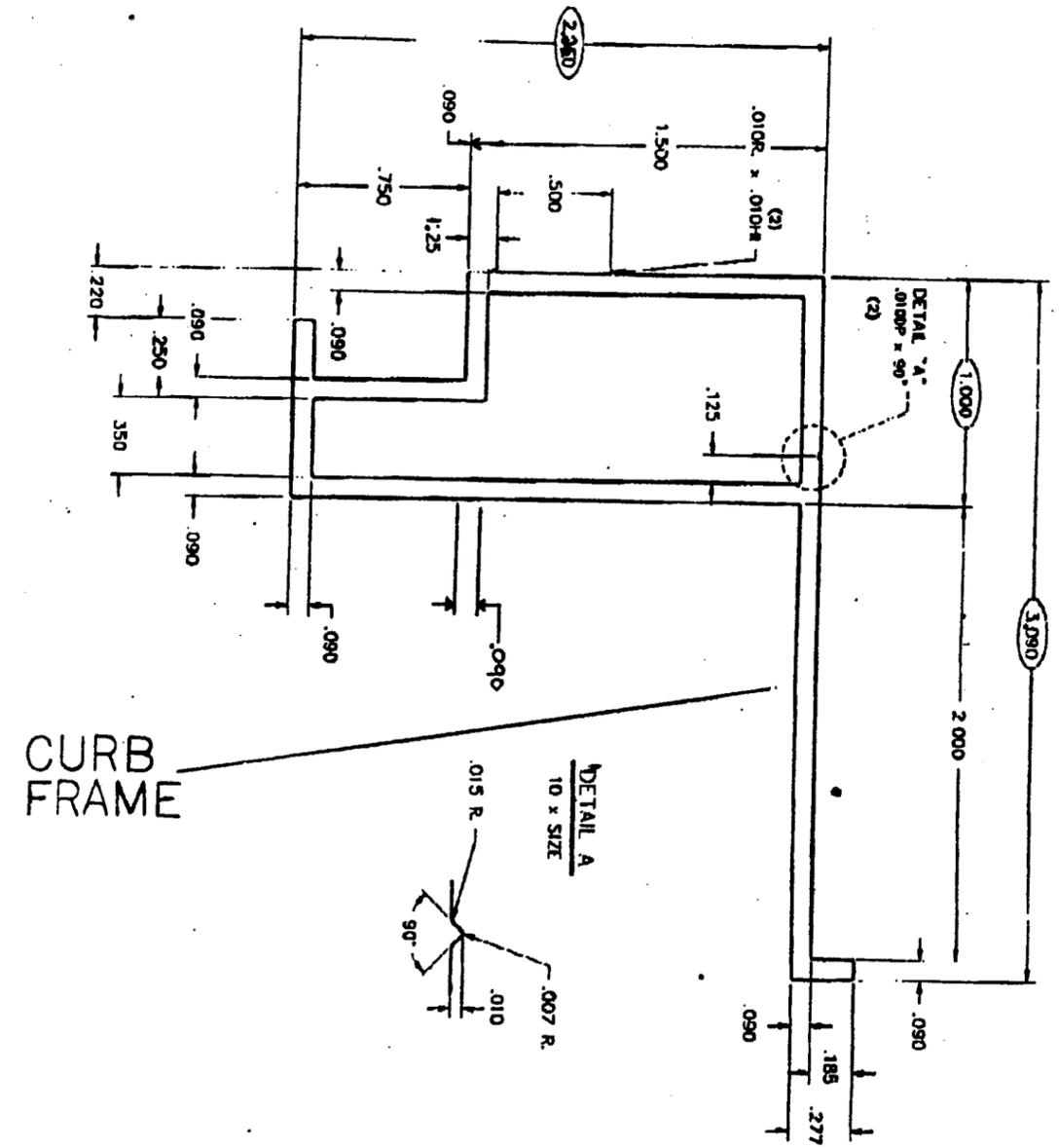
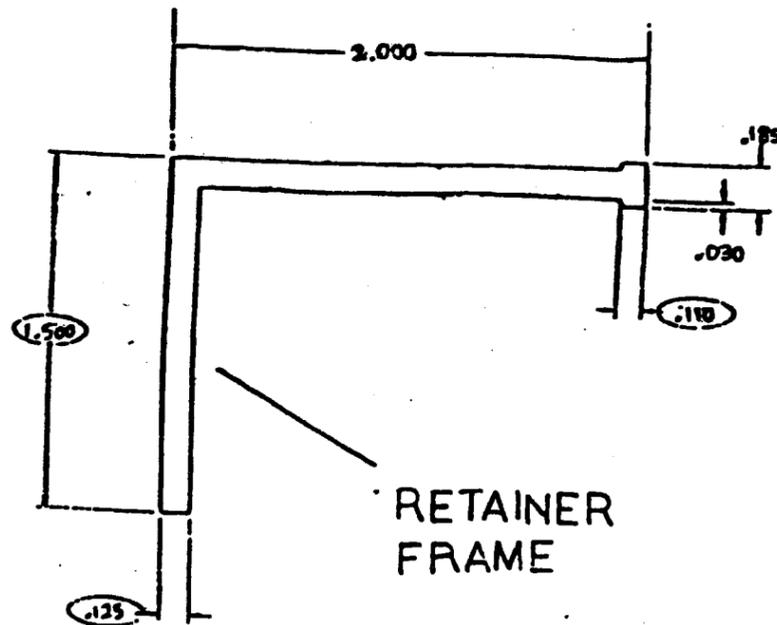
DESIGN PLASTICS, INC.
701 N. ANDREWS AVE. FT. LAUD., FL. 33311

SCALE: NTS
DATE: 8/17/00

APPROVED BY: _____
DRAWN BY: GT
REVISED: 05/20/09

DETAILS FOR CURB MOUNT SKYLIGHTS

Drawing #09-077
DRAWING NUMBER
3 OF 5



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0510.03
Expiration Date 05/10/2015
By *Herby A. M...*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0610.09
Expiration Date 05/10/2010
By *Herby A. M...*
Miami Dade Product Control
Division

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719
Walter A. Tillit Jr.
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

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

SCALE: NTS APPROVED BY: DRAWN BY GT
DATE: 8/17/00 REVISED 05/20/09

COMPONENTS FOR CURB MOUNTING
SKYLIGHTS

Drawing #09-077 DRAWING NUMBER
4 OF 5

**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 2007 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 section 6 of ASCE 7-05 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 RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0510.03
Expiration Date 05/10/2015
By Heather A. Miller
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0610.08
Expiration Date 05/10/2010
By Heather A. Miller
Miami Dade Product Control
Division

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 NW 36th STREET, STE. 305
MIAMI, FLORIDA 33166
FL E.B. LICENSE No. 0006719

Walter A. Tillit Jr.
6/3/09
WALTER A. TILLIT JR., P.E.
STRUCTURAL ENGINEER
FL. LIC. NO. 44167

DESIGN PLASTICS, INC. 701 N. ANDREWS AVE. FT. LAUD., FL. 33311		
SCALE: <u>NTS</u>	APPROVED BY:	DRAWN BY <u>GT</u>
DATE: <u>8/17/00</u>		REVISED <u>05/20/09</u>
BASIC DIMENSIONS CHARTS / GENERAL NOTES		
Drawing #09-077		DRAWING NUMBER 5 OF 5