



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Velux-America, Inc.
P.O. Box 5001
Greenwood, SC 29648

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: Series FCM 4646 0007B Aluminum Skylights

APPROVAL DOCUMENT: Drawing No. **VLUX0002**, titled "Impact Series 4646 0007B FCM Fixed Skylight ", sheets 1 through 3 of 3, dated 03/25/10, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear the following permanent label:

Velux Greenwood, Inc.
 450 Old Brickyard Road
 Greenwood, SC 29649

and the statement: "Miami-Dade County Product Control Approved".

RENEWAL of this NOA shall 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** and **revises** NOA # **04-0805.01** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Handwritten Signature]
 05/02/10

NOA No. 10-0412.01
Expiration Date: November 10, 2015
Approval Date: May 26, 2010
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **VLUX0002**, titled "Impact Series 4646 0007B FCM Fixed Skylight", sheets 1 through 3 of 3, dated 03/25/10, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Series/Model FCM 4646 0007B, fixed curb mounted skylights, prepared by Architectural Testing, Inc, Test Report No. **98188.01-109-18**, dated 03/08/10, signed and sealed by Michael D. Stremmel, P.E.
2. Test report of Standard Specifications for Dense Elastomeric Compression Seal Gasket, Setting Blocks and Spacers per ASTM C864-99 on "FCM Gasket (Black)", prepared by Architectural Testing, Inc, Report No. **56580.01-106-18**, dated 09/22/05 signed and sealed by Joseph A. Reed, P.E.
"Submitted under NOA # 04-0805.01"

C. CALCULATIONS

1. Anchor calculations prepared by PTC, LLC, dated 03/24/10, pages 1 through 6 of 6, signed and sealed by Robert J. Amoruso, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass Interlayer" dated 05/13/09, expiring on 01/14/12.

F. STATEMENTS

1. Letter of 2007 F.B.C. compliance and no financial interest issued by PTC, LLC, on 11/14/04, signed and sealed by Robert J. Amoruso, P.E.
2. Laboratory 2007 code compliance letter for Test Report No. ATI No. 98188.01-109-18, issued by Architectural Testing, Inc., dated 03/10/10, signed and sealed by Michael D. Stremmel, P.E.
3. Distributor Agreement between Velux-America, Inc. and Velux Greenwood, Inc.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 10-0412.01
Expiration Date: November 10, 2015
Approval Date: May 26, 2010

VELUX America, Inc.

IMPACT SERIES 4646 0007B FCM FIXED SKYLIGHT

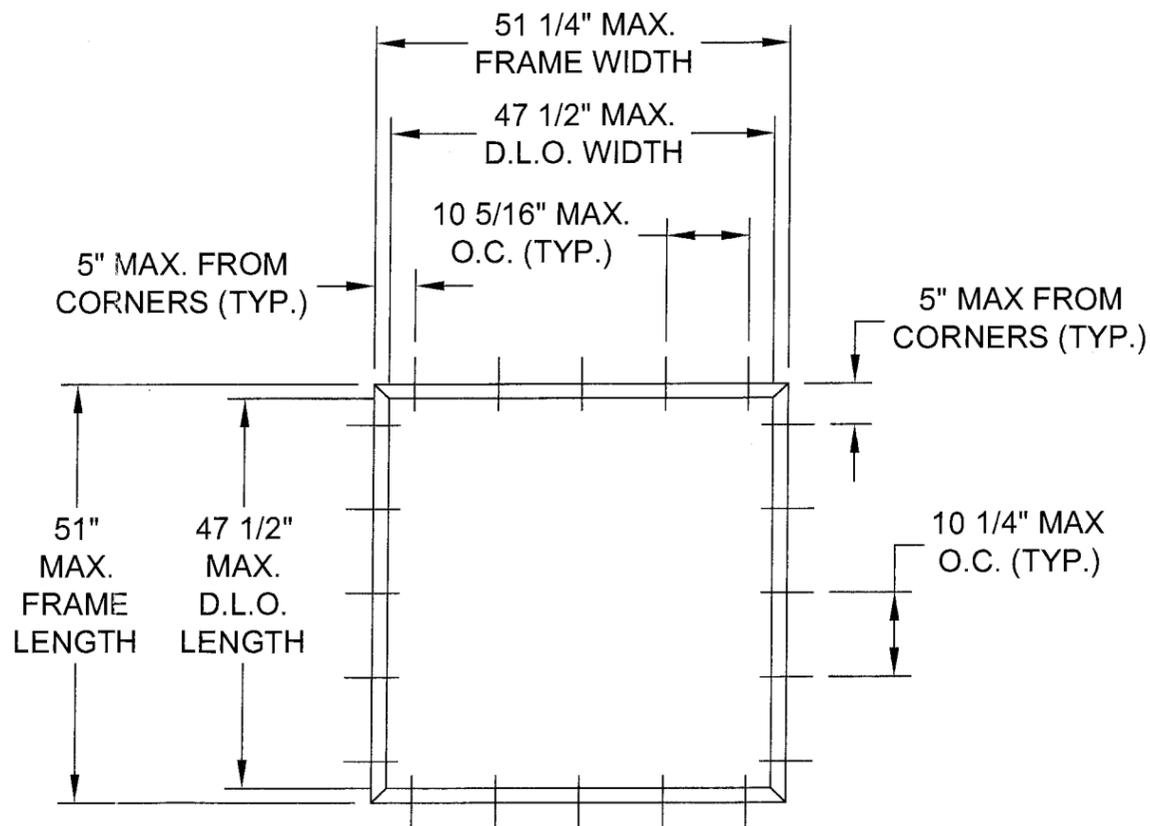
INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2007 FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # ATI 98188.01-109-18 DATED 03/08/10 AND ASSOCIATED LABORATORY STAMPED DRAWINGS AND WERE TESTED IN ACCORDANCE WITH CURRENT DADE COUNTY PROTOCOLS.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. IN AREAS WHERE WIND-BORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN APPROVED MIAMI DADE IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED.
5. FRAME MATERIAL: 3105-H22 ALUMINUM
6. GLASS MEETS THE REQUIREMENTS OF ASTM E1300.
7. DESIGNATION "O" STANDS FOR THE FOLLOWING:
O: FIXED PANEL
8. A 1/3 INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THE DESIGN OF THE PRODUCT(S) SHOWN HEREIN. WIND LOAD DURATION FACTOR (Cd = 1.0) HAS BEEN USED FOR WOOD ANCHOR DESIGN.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. FOR INSTALLATION INTO WOOD FRAMING, USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/8 INCH MINIMUM EMBEDMENT. MINIMUM EDGE DISTANCE IS 3/4 INCHES.
4. FOR INSTALLATION INTO CONCRETE, USE 3/16 INCH ITW ADVANCED THREADFORM TECHNOLOGY TAPCONS (N.O.A. 09-0121.19) OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT. MINIMUM EDGE DISTANCE IS 1 1/8 INCHES.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
6. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2000 psi AND COMPLIES WITH ACI 301, ACI 318-05 AND ACI 355



**ELEVATION &
ANCHOR LAYOUT**
TOP VIEW

TABLE OF CONTENTS		
SHEET	REV.	SHEET DESCRIPTION
1	---	NOTES, D.P. CHART, ELEVATION & ANCHOR LAYOUT
2	---	HORIZONTAL CROSS SECTIONS & GLAZING DETAIL
3	---	BILL OF MATERIALS, COMPONENTS

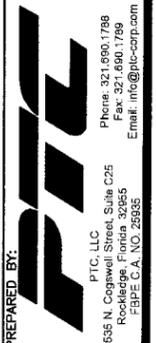
DESIGN PRESSURE RATING (PSF)	IMPACT RATING
±70.0	LARGE MISSILE IMPACT

PROJECT #309-1101

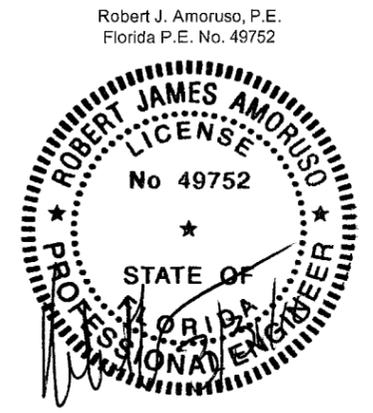
VELUX America, Inc.
P.O. BOX 5001
GREENWOOD, SOUTH CAROLINA 29648

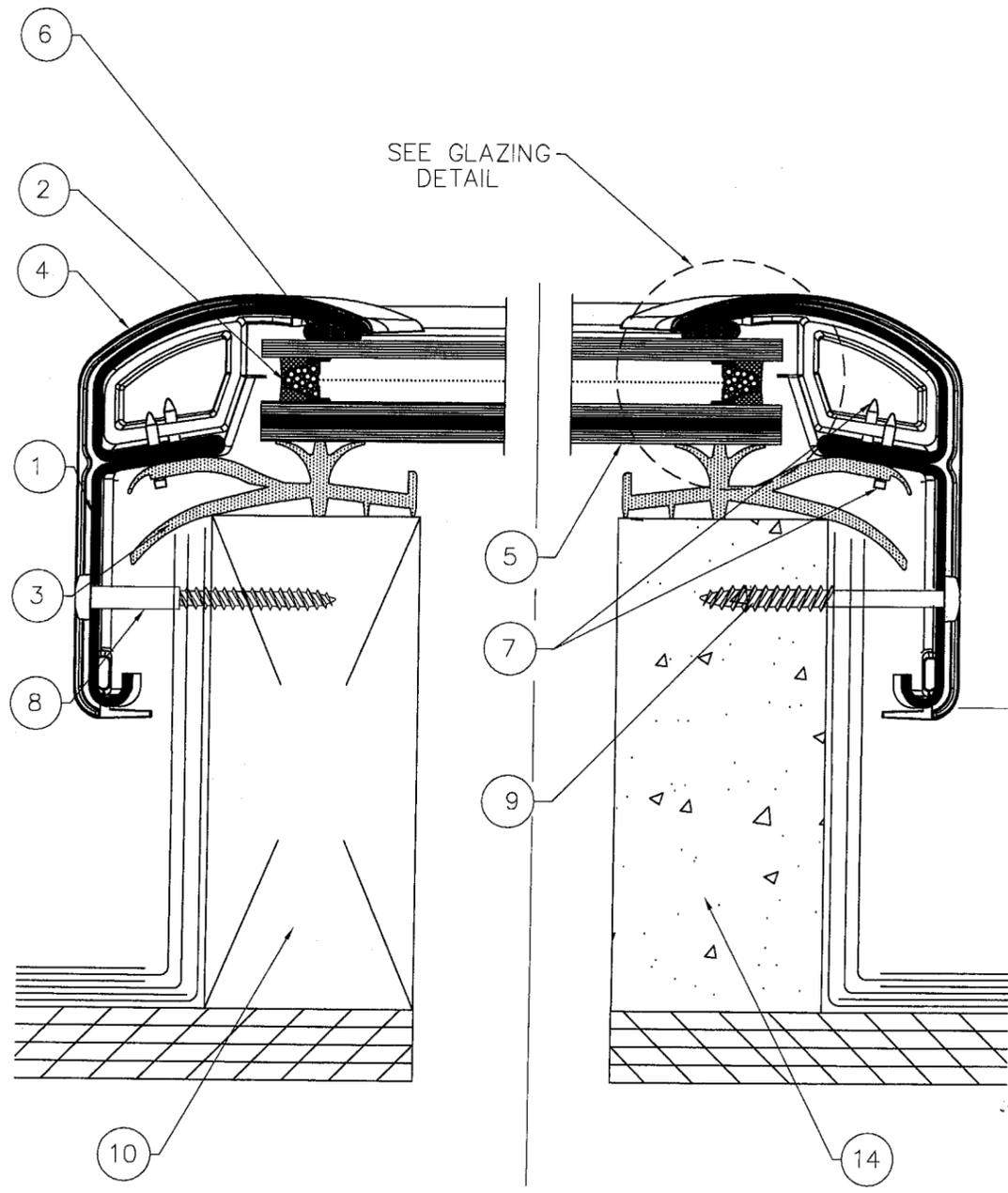
TITLE: IMPACT SERIES 4646 0007B FCM FIXED SKYLIGHT
NOTES, D.P. CHART, ELEVATION & ANCHOR LAYOUT

PREPARED BY: SMC
DRAWN BY: SMC
DATE: 03/25/10
SCALE: N.T.S.
DRAWING NO: VLUX0002
SHEET: 1 OF 3
REV: -

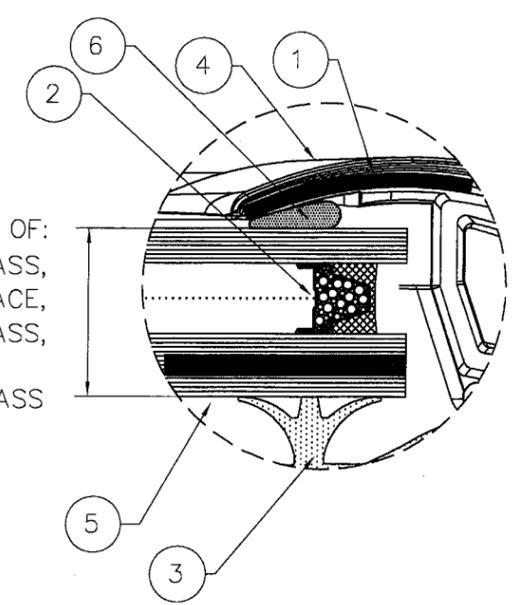


PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 10-0912-01
Expiration Date 11/10/2015
By [Signature]
Miami Dade Product Control Division





3/4" INSULATING GLASS CONSISTING OF:
 EXT. 1/8" TEMPERED GLASS,
 3/8" AIR SPACE,
 INT. 3/32" HEAT STRENGTHENED GLASS,
 0.090" SENTRY GLASS INTERLAYER,
 3/32" HEAT STRENGTHENED GLASS



HORIZONTAL CROSS-SECTION
 (TYPICAL FOR VERTICAL CROSS-SECTION)

*4" MIN. DISTANCE FROM END OF ALUMINUM FRAME TO ROOF FINISH FOR BUR & SHINGLE. IF INSULATION AND/OR TILE IS REQUIRED ADD INSULATION THICKNESS AND TILE HEIGHT TO 4" DISTANCE. ALL ROOFING DETAILS SHALL COMPLY WITH CHAPTER 34 OF THE FBC - RESIDENTIAL AND CHAPTER 15 OF THE FBC - BUILDING.

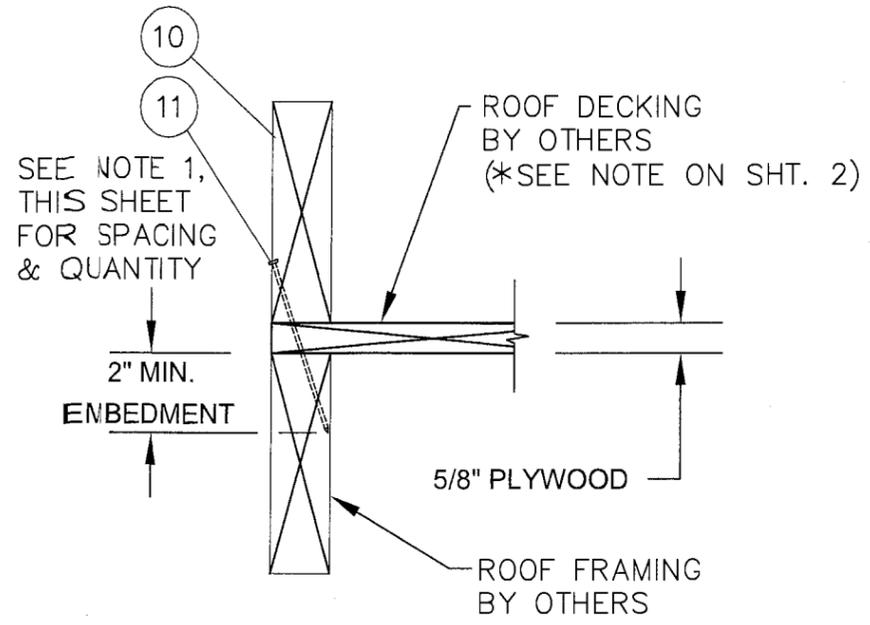
PROJECT #309-1101

PREPARED BY:	DATE:	03/25/10
DRAWN BY:	SCALE:	N.T.S.
PTC, LLC 1635 N. Cogswell Street, Suite C25 Rockledge, Florida 32955 FBPE C.A. NO. 25635	DRAWING NO.:	VLUX0002
REV:	SHEET:	2 OF 3

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 10-0412.01
 Expiration Date 11/10/2015
 By: *[Signature]*
 Miami/Dade Product Control
 Division

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

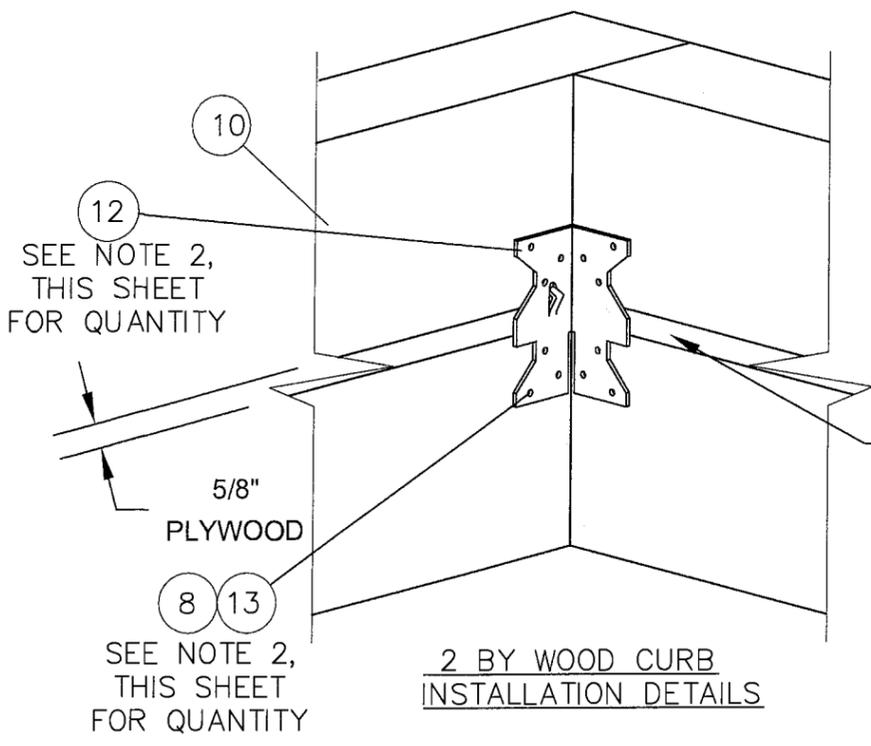
ROBERT JAMES AMORUSO
 LICENSE
 No 49752
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER



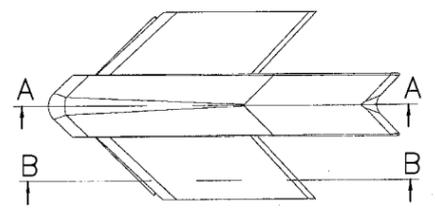
BILL OF MATERIALS			
NO.	PART NO.	DESCRIPTION	VENDOR
1	30219222	OUTER FRAME ROLL FORMED ALUMINUM	VELUX
2	303392	STAINLESS STEEL GLAZING SPACER	
3	303176XXXX	INNER FRAME GASKET - SINGLE DUROMETER	VELUX
4	303380	CORNER KEY - ASA-LURAN S 778T OR EQUIV.	VELUX
5	---	3/4" INSUL. GLASS; 1/8" TEMP., 3/8" DESICANT FILLED AIR SPACE, 3/32" H.S. GLASS, 0.090" SENTRY GLASS INTERLAYER, 3/32" H.S. GLASS	
6	309001B/C	HOT MELT TWO PART SILICONE SEALANT	
7	421020	T-NAIL	
8		#8 PAN HEAD WOOD SCREW	
9		3/16" ITW ADVANCED THREADFORM TECHNOLOGY TAPCON	
10		TWO BY WOOD CURB, G >= 0.55 (BY OTHERS)	
11		12D GALVANIZED NAIL	
12		SIMPSON A35 FRAMING ANCHOR	
13		8D X 1-1/2" GALVANIZED NAIL	
14		CONCRETE CURB (2000 PSI MINIMUM) (BY OTHERS)	

NOTES:

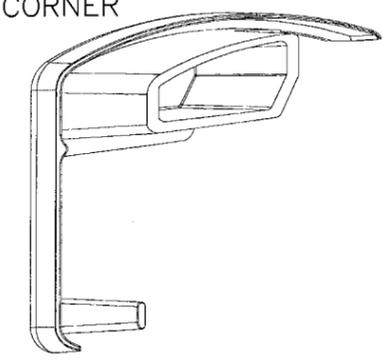
- 1) SPACING & QUANTITY FOR ITEM #11 - 12D NAILS FOR ALL SIDES AS FOLLOWS: 5" FROM CORNERS MAX. AND 13-1/2" O.C. MAX. THEREAFTER.
- 2) ITEM #12 IS ATTACHED AT EACH CORNER WITH (12) ITEM #8 OR #13, (3) INTO EACH MEMBER AT THE CORNER WITH 1-1/2" EMBEDMENT.



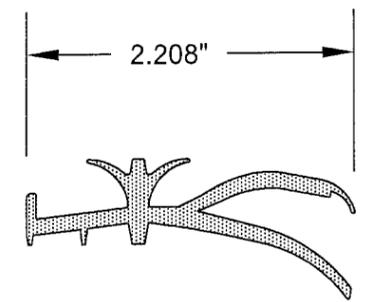
ROOF DECKING BY OTHERS (*SEE NOTE ON SHT. 2)



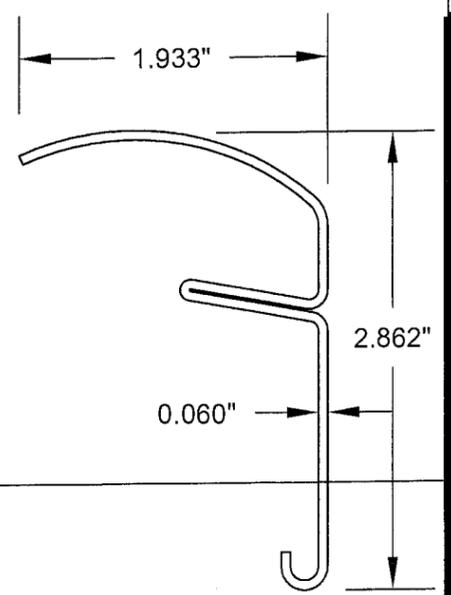
SECTION A-A



SECTION B-B



③ INNER FRAME GASKET



① OUTER FRAME

PROJECT #309-1101

VELUX America, Inc.
P.O. BOX 5001
GREENWOOD, SOUTH CAROLINA 29648

TITLE: IMPACT SERIES 4646 0007B FCM FIXED SKYLIGHT
BILL OF MATERIALS & COMPONENTS

PREPARED BY: SMC
SCALE: N.T.S.
DATE: 03/25/10
DRAWING NO: VLUX0002
SHEET: 3 OF 3



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 10-0412-01
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By *[Signature]*
Miami Dade Product Control Division

Robert J. Amoruso, P.E.
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