

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

V-Tech Industries, L.P. 5534 Harvey Wilson Drive Houston, TX 77020

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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series SSF, CAP and CMC Plastic Frame Skylights

APPROVAL DOCUMENT: Drawing No. 17-134, titled "Series Seamless Self-Flashing Glazed Skylight (SSF) and Series Curb-Mounted Glazed Skylight (CAP) and Series Curb-Mounted Glazed Skylight (CMC), L.M.I. Resistant-Insulated Glass", sheets 1 through 8 of 8 (including 7A), dated 08/02/2017, prepared by Tilteco, Inc., 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 the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

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 NOA # 17-0823.05 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

Heb A. M. Expiration D. Approval D.

NOA No. 19-0306.05 Expiration Date: 06/10/2024 Approval Date: 05/09/2019

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

Drawing No. 15-019, titled "Series Seamless Self-Flashing Glazed Skylight (SSF) and Series Curb-Mounted Glazed Skylight (CAP) and Series Curb-Mounted Glazed Skylight (CMC),
 L.M.I. Resistant-Insulated Glass", Sheets 1 through 8 of 8 (including 7A), dated 03/24/2015,
 prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS "Submitted under NOA # 10-1004.03"

- 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/Models 4 x 4 (CMC) Hurricane glass skylights, prepared by Architectural Testing, Inc., Test Reports No. 92239.04-801-18 (Rev. 1) and 92239.05-801-18, both dated 09/28/2010 and signed and sealed by Joseph A. Reed, P.E.

2. Test report on Tensile Strength of Plastics per ASTM D638-03 before and after weathering for 4500 hrs per ASTM G 155-00, prepared by ETC Laboratories, Test Report No. ETC-08-1146-21854.1, dated 07/14/2009, signed and sealed by Joseph L. Doldan, P.E. "Submitted under NOA # 09-0929.06"

"Submitted under NOA # 09-0316.03"

- 3. 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 Seamless Self-Flashing Glazed Skylight (SSF) and Series Curb-Mounted Glazed Skylight (CAP), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL** # **5477**, dated 02/05/2008, signed and sealed by Carlos S. Rionda, P.E.

- 4. 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 Curb-Mounted Glazed Skylight (CAP), prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL** # **4971**, dated 12/28/2006, signed and sealed by Michael Wenzel, P.E.

5. Test report on Tensile Strength of Plastics per ASTM D638-03 before and after weathering for per ASTM G 155-00, prepared by ETC Laboratories, Test Report No. ETC-08-1146-21854.0, dated 01/13/2009, signed and sealed by Joseph L. Doldan, P.E.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No. 19-0306.05 Expiration Date: 06/10/2024 Approval Date: 05/09/2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Cont.) "Submitted under NOA # 09-0316.03"

- 6. Test report on Ignition Properties of Plastics per ASTM D1929-01, prepared by Omega Point Laboratories, Test Report No. 17172-123928, dated 03/03/2005, signed by William E. Fitch, P.E.
- 7. Test report on Density of Smoke from the Burning or Decomposition of Plastics per ASTM D2843-99, prepared by Omega Point Laboratories, Test Report No. 17172-123931, dated 03/21/2005, signed by William E. Fitch, P.E.
- 8. Test report on Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position of White, Beige and Grey Plaques per ASTM D635-98, prepared by Ghesquiere Plastic Testing, Inc., Test Report No. 0502-65284, dated 03/02/2005, signed by M. W. Ghequiere, P.E. "Submitted under NOA # 09-0316.03"

C. CALCULATIONS

"Submitted under NOA # 10-1004.03"

1. Anchor calculations, prepared by Tilteco, Inc., dated 09/28/2010, signed and sealed by Walter A. Tillit, Jr., P.E.

"Submitted under NOA # 09-0316.03"

2. Anchor calculations, prepared by Tilteco, Inc., dated 04/22/2008, signed and sealed by Walter A. Tillit, Jr., P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

"Submitted under NOA # 09-0316.03"

- 1. Test report on Fire Resistance of Roof Covering Materials of Curb Mounted Glass Skylight with Plastic Frame per ICC-ES, AC-16 (Class B), prepared by Ramtech Laboratories, Test Report No. 2092-07-07, dated 03/31/2008, signed by Steven Berggren.
- 2. Test report on Tensile and Shear Test of #10 x 1-1/2" Phillips Sheet Metal Screws on Wood through Plastic per ASTM D412, prepared by Fenestration Testing Laboratory, Inc., dated 04/28/2008, signed and sealed by Michael Wenzel, P.E.
- 3. Notice of Acceptance No. **05-1208.02**, issued to E.I. DuPont de Nemours & Co., Inc., for their DuPont Butacite PVB Interlayer, approved on 01/05/2006 and expiring on 12/11/2010.
- 4. Material Safety Data Sheets of EFBond DW 646 and EFBond DV 930.
- 5. Technical Data Sheet of Color-Fast LM150/100 Arch System.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor NOA No. 19-0306.05

Expiration Date: 06/10/2024 Approval Date: 05/09/2019

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Tilteco, Inc., dated 04/07/2015, signed and sealed by Walter A. Tillit, Jr., P.E.

"Submitted under NOA # 14-0605,13"

2. Statement letter of code conformance to 2010 FBC issued by Tilteco, Inc., dated 06/03/2014, signed and sealed by Walter A. Tillit, Jr., P.E.

"Submitted under NOA # 09-0316.03"

3. No financial interest letter issued by Tilteco, Inc., dated 02/19/2009, signed and sealed by Walter A. Tillit, Jr., P.E.

EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #17-0823.05

A. DRAWINGS

1. Drawing No. 17-134, titled "Series Seamless Self-Flashing Glazed Skylight (SSF) and Series Curb-Mounted Glazed Skylight (CAP) and Series Curb-Mounted Glazed Skylight (CMC), L.M.I. Resistant-Insulated Glass", sheets 1 through 8 of 8 (including 7A), dated 08/02/2017, prepared by Tilteco, Inc., 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 (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC and 6th edition (2017) issued by Tilteco, Inc., dated 08/03/2017, signed and sealed by Walter A. Tillit, Jr., P.E.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No. 19-0306.05 Expiration Date: 06/10/2024

Approval Date: 05/09/2019

V-Tech Industries, L.P.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

NEW EVIDENCE SUBMITTED

- A. DRAWINGS
 - 1. None.
- B. TESTS
 - 1. None.
- C. CALCULATIONS
 - 1. None.
- D. QUALITY ASSURANCE
 - 1. By Miami-Dade County Department of Regulatory and Economic Resources (RER).
- E. MATERIAL CERTIFICATIONS
 - 1. None.
- F. STATEMENTS
 - 1. Statement letter of code conformance to the FBC, 6th edition (2017) issued by Tilteco, Inc., dated 03/05/2019, signed and sealed by Walter A. Tillit, Jr., P.E.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No. 19-0306.05 Expiration Date: 06/10/2024 Approval Date: 05/09/2019

GENERAL NOTES:

1. SERIES SEAMLESS SELF-FLASHING GLAZED SKYLIGHT (SSF) AND SERIES CURB-MOUNTED GLAZED SKYLIGHTS (CAP) & (CMC), LARGE MISSILE IMPACT RESISTANT-INSULATED GLASS SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAVE BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (6th EDITION) OF THE FLORIDA BUILDING CODE. SKYLIGHTS MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE/BROWARD COUNTIES). DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODES, USING ASCE 7-10 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY O.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, NO INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS USED IN THEIR ANALYSIS, PERFORMED PER SECTION 1616 OF THE FLORIDA BUILDING CODE.

SKYLIGHT'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODES AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER FENESTRATION TESTING LABORATORY LAB REPORTS # 4971 (FOR CAP) & 5477 (FOR SSF) AND PER ARCHITECTURAL TESTING LABORATORY REPORT # 92239.04-801-18 (FOR CMC) AND PER A.S.T.M. STANDARDS AND F.B.C. SECTIONS INDICATED ON SCHEDULE SHOWN ON THIS SHEET, PER TESTING PERFORMED BY OMEGA POINT SERVICES, GHESQUIERE PLASTIC TESTING, INC., ETC LABORATORIES, RAMTECH, ATLAS WEATHERING SERVICES GROUP DSET AND RECTICEL NORTH AMERICA LABORATORIES.

2. MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THESE SKYLIGHTS ARE:

skylight system	A.S.D. DESIGN PRESSURE RATING
SSF/CAP	±75.0 psf
CMC	±55.0 psf

- 3. THIS SKYLIGHT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
- 4. THIS SKYLIGHT IS ALSO APPROVED FOR AIR AND WATER INFILTRATION.
- 5. REMAINING COMPONENTS FOR THESE SKYLIGHTS SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 2 OF THIS DRAWING.
- 6. SKYLIGHTS SHALL BE INSTALLED SEPARATED FROM EACH OTHER A DISTANCE OF NO LESS THAN 4'-0" MEASURED IN A HORIZONTAL PLANE AS PER SECTION 2607.4 OF THE FLORIDA BUILDING CODE.
- 7. SKYLIGHT'S FRAME CORRESPOND TO COLO-FAST LM150/100 ARCH SYSTEM (SEE MECHANICAL PROPERTIES BELOW) PRODUCED BY RECTICEL, DAMSTRAAT 2, B9230 BELGIUM, THAN IS AN ALIPHATIC THREE- COMPONENT POLYURETHANE SYSTEM, DESIGNED FOR REACTION INJECTION MOLDING, RESULTING IN A MICRO-CELLULAR FLEXIBLE ELASTOMER. COMPONENTS CONSIST OF:

POLYFAST 150/100 IS A MIXTURE OF POLYOLS, CATALYSTS, ANTI-OXYDANTS. COLORPASTE XXXXXP IS A MIXTURE OF POLYOLS AND COLORPASTES; THE NUMBER IS DEPENDING ON THE REQUIRED COLOR. ISOFAST 250/100 IS A MIXTURE OF AN ISOPHORONDIISOCYANATE MODIFICATION, CATALYSTS AND ANTI-OXYDANTS.

MECHANICAL PROPERTIES						
SYSTEM	TEST METHOD	UNIT	LM150/100 ARCH			
MOULDED DENSITY (Kg/m³)	ISO 1183	Kg/m³	1050			
(1.97 1.17	ASTM D2240 (0 s)		90			
HARDNESS SHORE A	DIN 53505 (3 s)		86			
THE BUILDS OF THE PER	ISO 868 (15 s)		85			
	ASTM 02240 (0 s)		38			
HARDNESS SHORE D	DIN 53505 (3 s)		31			
THE COLUMN THE PARTY OF THE PAR	ISO 868 (15 a)		28			
ELONGATION	ISO 527	76	166			
TENSILE STRENGTH	ISO 527	MPa	12			
	ISO 34	kN/m	32			
TENSILE RESISTANCE	ASTM D624/C	N/cm	450			
WATER ABSORPTION (72h/2°C)	ASTM D570	x	4.4			
FLEXURAL MODULUS	ASTM 0790 18	MPa	62			

* QUALIFIED COLORS: WHITE BEIGE **GRAY**

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 19-0306.05 Expiration Date 06/10/2024

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

B. EFBOND DV 930 IS A PRIMING SUBSTANCE USED IN GLAZING PENETRATION INTO FRAME. SEE TABLE OF PHYSICAL AND CHEMICAL PROPERTIES ON SHEET 2.

EFBOND DW 646 IS LAYER TO PROMOTE ADHESION USED IN GLAZING PENETRATION INTO FRAME. SEE TABLE OF PHYSICAL AND CHEMICAL PROPERTIES ON SHEET 2.

- 9. TEMPERED GLASS SHALL COMPLY WITH SECTION 2411.1.3 OF THE FLORIDA BUILDING CODE. HEAT STRENGTHENED GLASS SHALL COMPLY WITH SECTION 2411.1.5 OF THE FLORIDA BUILDING CODE.
- 10. ANCHOR SPECIFICATIONS. SEE ITEM #7 ON SHEET 2 ON BILL OF MATERIALS.
- 11. WOOD CURBS OR SUPPORT NOT BY V-TECH INDUSTRIES, MUST BE PROPERLY ANCHORED AND DESIGNED BY PROFESSIONAL OF RECORD TO TRANSFER ALL LOADS TO THE BUILDING STRUCTURE AND MUST BE APPROVED BY BUILDING OFFICIAL AT THE TIME PERMIT IS APPLIED FOR. WOOD TO BE SOUTHERN PINE, G = 0.55.

PRODUCT REVISED as complying with the Florida **Building Code**

MIAMI-DADE COUNTY

Euriding Code
Acceptance No 17-0823.05
Expiration Date 06.116/2019
By He J. H. Miarni Dade Troduct Control FLORIDA ENGLIS

ER A. TILLITUS

P.E. SEAL/SIGNATURE/DATE

- 12. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 2405.5 OF THE FLORIDA BUILDING CODE.
- 13. (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.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, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
 - (c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
 - (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
 - (e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

SCHEDULE OF STANDARDS USED TO VERIFY MATERIAL PROPERTIES OF SKYLIGHTS

MATERIAL PROPERTIES OF SKYLIGHTS								
MATERIAL PROPERTY	STANDARD	TEST RESULTS	TEST REPORT #	LABORATORY	F.B.C. SECTIONS			
DENSITY OF SMOKE	ASTM D2843	SMOKE DENSITY 30.7% SMOKE DENSITY RATING 22.2%	17172-123931	OMEGA POINT	2615.2			
		FLASH IGNITION 644°F						
SELF IGNITION TEMPERATURE	ASTM D1929-12	SPONTANEOUS-IGNITION TEMP. 680°F	17172-123928	OMEGA POINT	2615.2			
RATE OF BURNING &/OR EXTENT & TIME OF BURNING OF PLASTICS IN A HORIZONTAL POSITION	ASTM D635—10	>1 in/min. (C-1)	0502-65284	GHESQUIERE PLASTIC TESTING, INC.	2615.2			
WEATHERING	ASTM G155-05	WEATHERED FOR: 4500 hrs.		ETC	2615.2			
TENSILE STRENGTH	ASTM D638-03	UNEXPOSED: 1400.04 psi EXPOSED: 1439.59 psi % DIFF.: -2.8%	ETC-08114621854.1	LABORATORIES				
FIRE RESISTANCE OF ROOF COVERING MATERIALS	UL 790-97	PASSED	2092-07-07	RAMTECH	2610.2 *			
TENSILE AND SHEAR STRENGTH OF #10 SCREWS THRU SSF AND CAP	ASTM D412 (12/06) .	TENSION CAPACITY: Tu = 229 Lb	08041044	FENESTRATION TESTING LAB	1625.1			
FRAME FOR ATTACHMENT INTO	ASTM 0412 (12/00)	SHEAR CAPACITY: Su = 141 Lb		P.E. WITNESSING IN PLANT TESTING				

* NOTE: NOT REQUIRED FOR HIGH VELOCITY HURRICANE ZONES, BUT IT WAS STILL PERFORMED

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE) ERIES SEAMLESS SELF-FLASHING GLAZED SKYLIGHT (SSF

@2017 TILTECO, INC ECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Sta. 305, VIRGINIA GARDENS, Fl. 33166 Phone : (305)871-1530 . Fox : (305)871-1531

EB-0006719

WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167

V-TECH INDUSTRIES 5534 HARVEY WILSON DRIVE HOUSTON, TEXAS 77020 PHONE: (866) 491-0843

SERIES CURB-MOUNTED GLAZED SKYLIGHT (CAP) AND

SERIES CURB-MOUNTED GLAZED SKYLIGHT (CMC) LARGE

MISSILE IMPACT RESISTANT-INSULATED GLASS

08/02/17 DATE 17-134 DRAWING No

DRAWN BY

DESCRIPTION DATE REV. No DESCRIPTION DATE 1 0LD 15-019 08/02/17 3 SHEET 1 OF 8

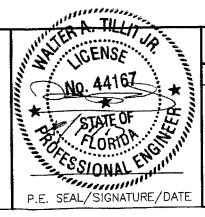
PHYSICAL AND CHEM	EC MATERIAL SAFETY DATA SHEET ICAL PROPERTIES FOR "EFBOND DV 930" (5)
GENERAL INFORMATION	
ORM	LIQUID
	BLACK
COLOUR:	CHARACTERISTIC
DDOUR:	Characterion
CHANGE UN CONDITION	LOUIS TO BANKED
MELTING POINT/MELTING RANGE	The state of the s
BOLING POINT/BOILING RANGE:	79°C
FLASH POINT:	-4°C
IGNITION TEMPERATURE:	370.0°C
SELF-IGNITION:	PRODUCT IS NOT SELFIGNITING
DANGER OF EXPLOSION:	PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF
	EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE.
EXPLOSION LIMITS:	
LOWER:	1,8 VOL%
UPPER:	11.5 VOL%
VAPOUR PRESSURE AT 20°C:	105.0 hPa
DENSITY AT 20°C:	0.950 g/cm ³
SOLUBILITY IN / MISCIBILITY	
	NOT MISCIBLE OR DIFFICULT TO MIX
WITH WATER:	TO MICOULE STATE OF THE STATE O
SOLVENT CONTENT:	Top 0000
ORGANIC SOLVENTS:	69.00%
SOLIDS CONTENT:	31.00%
AS PER EFT	EC MATERIAL SAFETY DATA SHEET
PHYSICAL AND CHEM	EC MATERIAL SAFETY DATA SHEET ICAL PROPERTIES FOR "EFBOND DW 646" (6)
PHYSICAL AND CHEM GENERAL INFORMATION	ICAL PROPERTIES FOR "EFBOND DW 646" (6)
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PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: ODOUR:	ICAL PROPERTIES FOR "EFBOND DW 646" (6)
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: ODOUR: CHANGE UN CONDITION	LIQUID CLEAR ALCOHOL-LIKE
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PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: COLOUR: COLOUR: CHANGE UN CONDITION MELTING POINT/MELTING RANGE: BOLING POINT/BOILING RANGE:	LIQUID CLEAR ALCOHOL-LIKE
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: COLOUR: CHANGE UN CONDITION MELTING POINT/MELTING RANGE BOLING POINT/BOILING RANGE: FLASH POINT:	LIQUID CLEAR ALCOHOL-LIKE114.5°C 78°C 13°C 425.0°C
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR:	LIQUID CLEAR ALCOHOL-LIKE : -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: ODOUR: CHANGE UN CONDITION MELTING POINT/MELTING RANGE BOLING POINT/BOILING RANGE: FLASH POINT: IGNITION TEMPERATURE:	LIQUID CLEAR ALCOHOL-LIKE 13°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE HOWEVER, FORMATION O
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: COLOUR: COLOUR: CHANGE UN CONDITION MELTING POINT/MELTING RANGE BOLING POINT/BOILING RANGE: FLASH POINT: IGNITION TEMPERATURE: SELF-IGNITION:	LIQUID CLEAR ALCOHOL-LIKE : -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: COLOUR: COLOUR: CHANGE UN CONDITION MELTING POINT/MELTING RANGE BOLING POINT/BOILING RANGE: FLASH POINT: IGNITION TEMPERATURE: SELF-IGNITION:	LIQUID CLEAR ALCOHOL-LIKE 13°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE HOWEVER, FORMATION O
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: COLOUR: COLOUR: CHANGE UN CONDITION MELTING POINT/MELTING RANGE BOLING POINT/BOLING RANGE: FLASH POINT: GRITTION TEMPERATURE: SELF-IGNITION: DANGER OF EXPLOSION:	LIQUID CLEAR ALCOHOL-LIKE 13°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE HOWEVER, FORMATION O
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: CO	LIQUID CLEAR ALCOHOL-LIKE 13°C 19°C 19°C 19°C 19°C 19°C 10°C 10°C 10°C 10°C 10°C 10°C 10°C 10
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR:	LIQUID CLEAR ALCOHOL-LIKE 13°C 13°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE. 3.5 VOL%
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR:	LIQUID CLEAR ALCOHOL-LIKE : -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE HOWEVER, FORMATION O EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE.
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: CO	LIQUID CLEAR ALCOHOL-LIKE -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE. 3.5 VOL% 15.0 VOL% 59.0 hPa
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR:	LIQUID CLEAR ALCOHOL-LIKE :: -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE. 3.5 VOL% 15.0 VOL% 59.0 hPa 0.797 g/cm³
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR:	LIQUID CLEAR ALCOHOL-LIKE -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE. 3.5 VOL% 15.0 VOL% 59.0 hPa
PHYSICAL AND CHEM GENERAL INFORMATION FORM: COLOUR: CO	LIQUID CLEAR ALCOHOL-LIKE 114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION OF EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE. 3.5 VOL% 15.0 VOL% 59.0 hPa 0.797 g/cm³ 1.000 g/l
PHYSICAL AND CHEM - GENERAL INFORMATION FORM: COLOUR: COLOUR: - CHANGE UN CONDITION MELTING POINT/MELTING RANGE BOLING POINT/BOILING RANGE: - FLASH POINT: - IGNITION TEMPERATURE: - SELF-IGNITION: - DANGER OF EXPLOSION: LOWER: - UPPER: - VAPOUR PRESSURE AT 20°C: - DENSITY AT 20°C: - SOLUBILITY IN / MISCIBILITY WITH WATER:	LIQUID CLEAR ALCOHOL-LIKE :: -114.5°C 78°C 13°C 425.0°C PRODUCT IS NOT SELFIGNITING PRODUCT IS NOT EXPLOSIVE. HOWEVER, FORMATION O EXPLOSIVE AIR/ VAPOUR MIXTURES ARE POSSIBLE. 3.5 VOL% 59.0 hPa 0.797 g/cm³

	BILL OF MATERIALS							
		MATERIAL	USE					
# ITEM	PART	DESCRIPTION	MVIFIVE	SSF & CAP	CMC			
1	FRAME	APPLICABLE ONLY FOR "SQUARE" SHAPE FRAME SERIES: SEAMLESS SELF-FLASHING GLAZED SKYLIGHT (SSF), CORRESPOND TO COLO-FAST® LM150/100 ARCH SYSTEM (SEE NOTE 7/1, AND DETAIL ON SHEET 3)	ALIPAHTIC POLYURETHANE	YES	NO			
2	FRAME	APPLICABLE FOR "SQUARE" AND "RECTANGULAR" SHAPES FRAME SERIES: CURB-MOUNTED GLAZED SKYLIGHT (CAP), CORRESPOND TO COLO-FAST® LM150/100 ARCH SYSTEM (SEE NOTE 7/1, AND DETAIL ON SHEET 3)	ALIPAHTIC POLYURETHANE	YES	NO			
2A	FRAME	APPLICABLE FOR "SQUARE" SHAPE FRAME SERIES: CURB-MOUNTED GLAZED SKYLIGHT (CMC), CORRESPOND TO COLO-FAST® LM150/100 ARCH SYSTEM (SEE NOTE 7/1, AND SEE COMPONENT ON SHEET 3)	ALIPAHTIC POLYURETHANE	NO	YES			
3	FRAME	APPLICABLE ONLY FOR "RECTANGULAR" SHAPE FRAME SERIES: SEAMLESS SELF-FLASHING (SSF) SKYLIGHT, GLASS GLAZED SKYLIGHT, CORRESPOND TO COLO-FAST® LM150/100 ARCH SYSTEM (SEE NOTE 7/1, AND DETAIL ON SHEET 3)	ALIPAHTIC POLYURETHANE	YES	NO			
4	GLASS	3/4" OVERALL THICKNESS 1/8" TEMPERED GLASS (EXTERIOR LITE) + 1/4" AIR SPACE + 1/8" H.S. GLASS (INTERIOR LITE) WITH A 0.120" INTERLAYER FILM, PVB MANUFACTURED BY KURARAY AMERICA, INC, LAMINATED BY CARDINAL GLASS + 1/8" H.S. GLASS (INTERIOR LITE).	IMPACT RESISTANT INSULATED GLASS	YES	NO			
4 A	GLASS	3/4" OVERALL THICKNESS 5/32" TEMPERED GLASS (EXTERIOR LITE) + 1/4" AIR SPACE + 3/32" H.S. GLASS (INTERIOR LITE) WITH A 0.120" INTERLAYER FILM, PVB MANUFACTURED BY KURARAY AMERICA, INC, LAMINATED BY CARDINAL GLASS + 3/32" H.S. GLASS (INTERIOR LITE).	IMPACT RESISTANT INSULATED GLASS	NO	YES			
5	GLAZING SEALANT	EDBOND DV 930, SEE PHYSICAL AND CHEMICAL PROPERTIES ON THIS SHEET.	PRIMER	YES	YES			
6	GLAZING SEALANT	EDBOND DW 646, SEE PHYSICAL AND CHEMICAL PROPERTIES ON THIS SHEET.	ADHESIVE	YES	YES			
7	ANCHORS TO WOOD	#10 x 1 ½" PHILLIPS SHEET METAL SCREW TO WOOD FRAME W/ 1.22" MIN. THREADED PENETRATION FOR TENSION CAPACITY (AT SSF) AND 1.20" MIN. THEREADED PENETRATION FOR SHEAR CAPACITY (AT CAP AND CMC).	NON CORROSIVE STEEL	YES	YES '			

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 19-0306.05
Expiration Date 06/10/2024

PRODUCT REVISED

MIAMI-DADE COUNTY



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

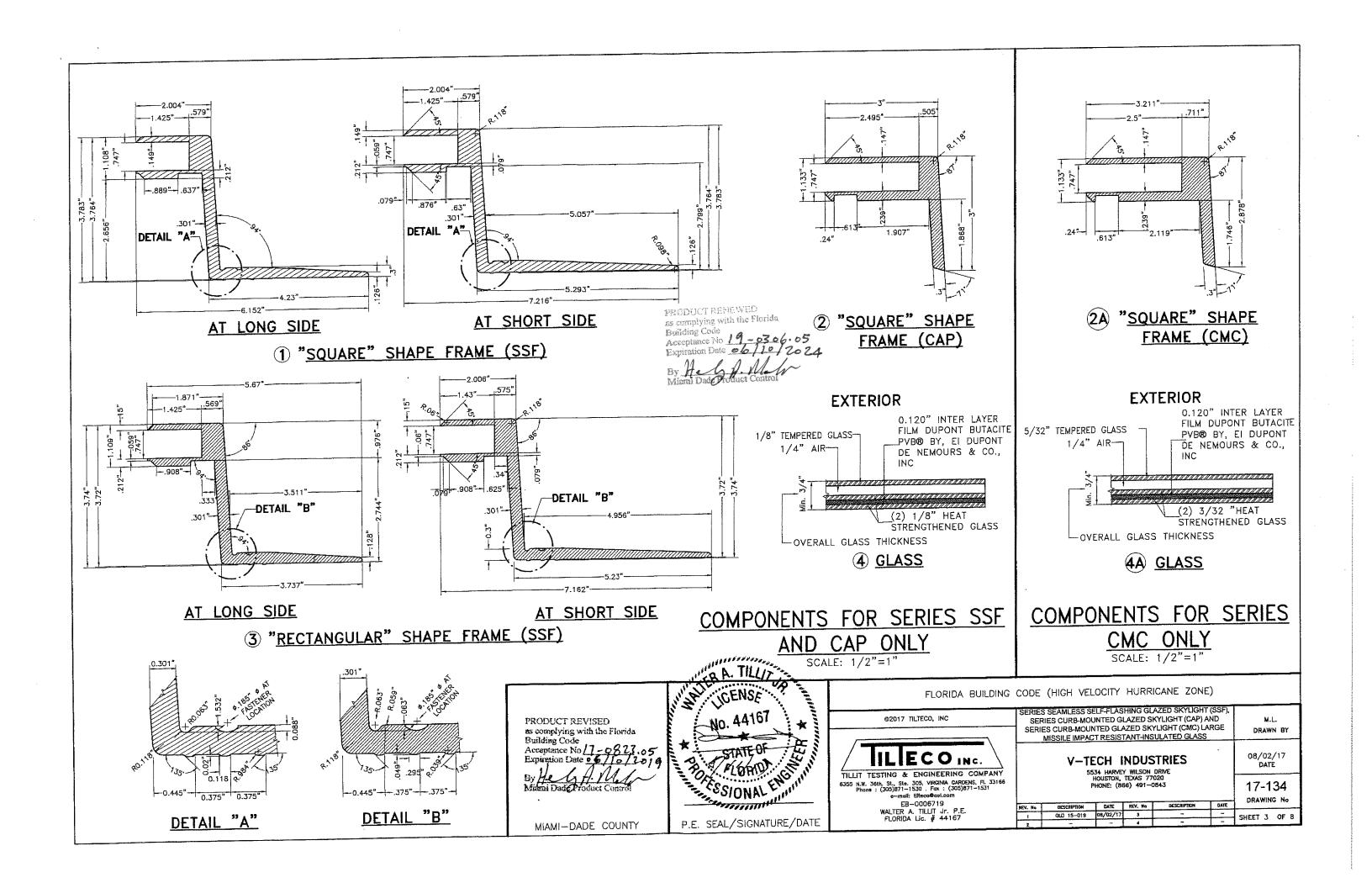
IL ECO INC.

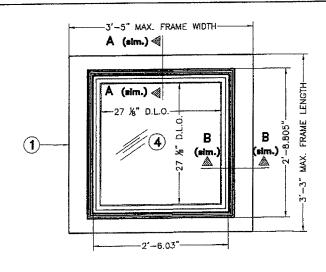
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FI. 33166
Phone: (305)871-1530 . Fox : (305)871-1531
--moil: titleco@dol.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

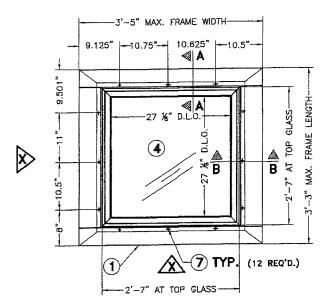
SERIES SEAMLESS SELF-FLASHING GLAZED SKYLIGHT (SSF), SERIES CURB-MOUNTED GLAZED SKYLIGHT (CAP) AND SERIES CURB-MOUNTED GLAZED SKYLIGHT (CMC) LARGE MISSILE IMPACT RESISTANT-INSULATED GLASS	M.L. DRAWN BY	
V—TECH INDUSTRIES 5534 HARVEY WILSON DRIVE	08/02/17 DATE	
HOUSTON, TEXAS 77020 PHONE: (856) 491-0843	17-134	

DRAWING No SHEET 2 OF 8

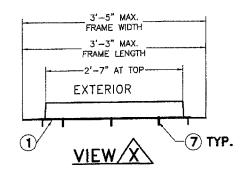




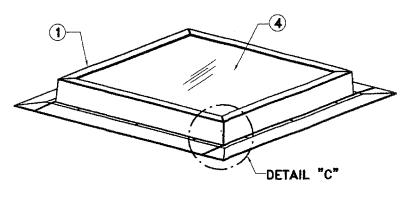
PLAN (INTERIOR SIDE)



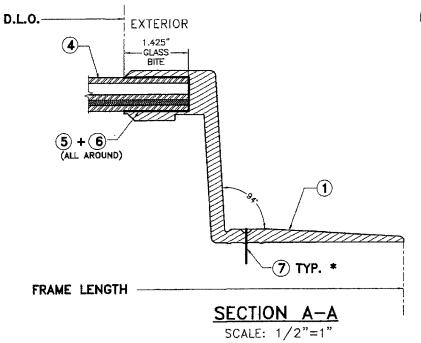
PLAN (EXTERIOR SIDE)

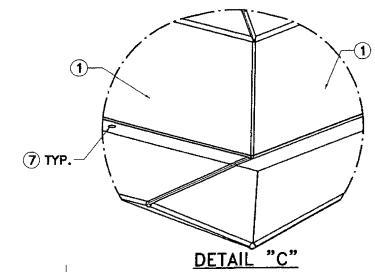


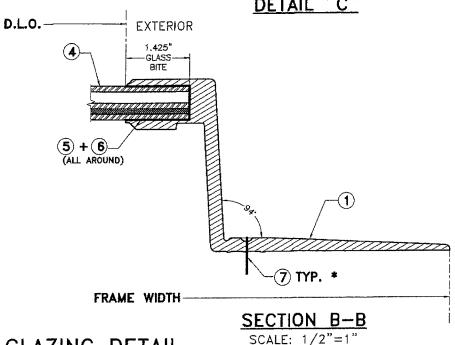
CASE 1: 3'-5"x3'-3" SERIES SEAMLESS SELF-FLASHING GLAZED SKYLIGHT (S.S.F.) N.T.S.



TYPICAL ISOMETRIC







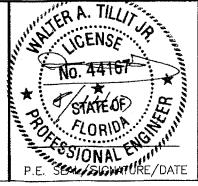
GLAZING DETAIL

SEE CONNECTION DETAIL ON SHEET 8/8

PRODUCT RENEWED as complying with the Florida

PRODUCT REVISED us complying with the Floridz Acceptance No 17-0823.65 Expiration Date 66/10/2014

MIAMI-DADE COUNTY



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

@2017 TILTECO, INC LIECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, Fl. 33166 Phone: (305)871-1530 . Fox: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167

SERIES CURB-MOUNTED GLAZED SKYLIGHT (CAP) AND SERIES CURB-MOUNTED GLAZED SKYLIGHT (CMC) LARGE DRAWN BY MISSILE IMPACT RESISTANT-INSULATED GLASS 08/02/17 DATE

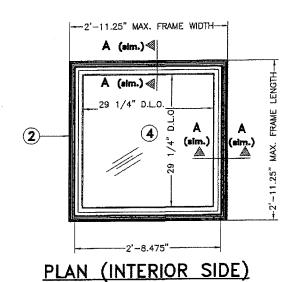
V-TECH INDUSTRIES

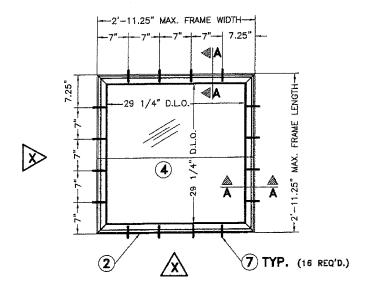
5534 HARVEY WILSON DRIVE HOUSTON, TEXAS 77020 PHONE: (868) 491-0843

17-134 DRAWING No OLD 15-019 08/02/17 3

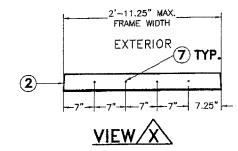
M.L.

SHEET 4 OF 8

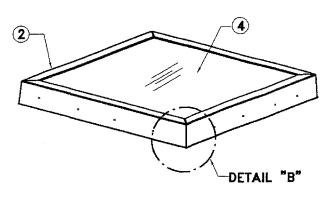




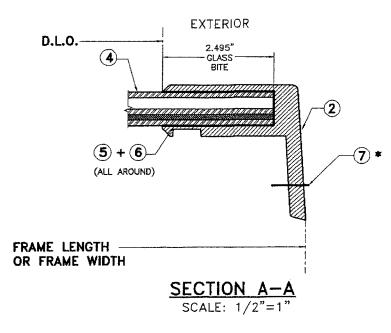




CASE 2: 2'-11 1/4"x2'-11 1/4" SERIES CURB-MOUNTED GLAZED SKYLIGHT (CAP)

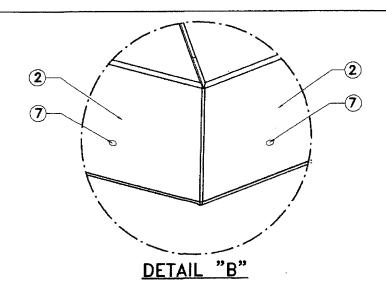


TYPICAL ISOMETRIC

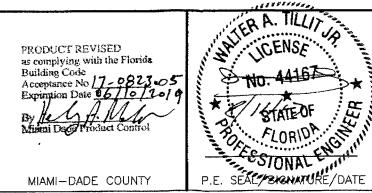


GLAZING DETAIL

* SEE CONNECTION DETAIL ON SHEET 8/8



PRODUCT RENEWED as complying with the Florida

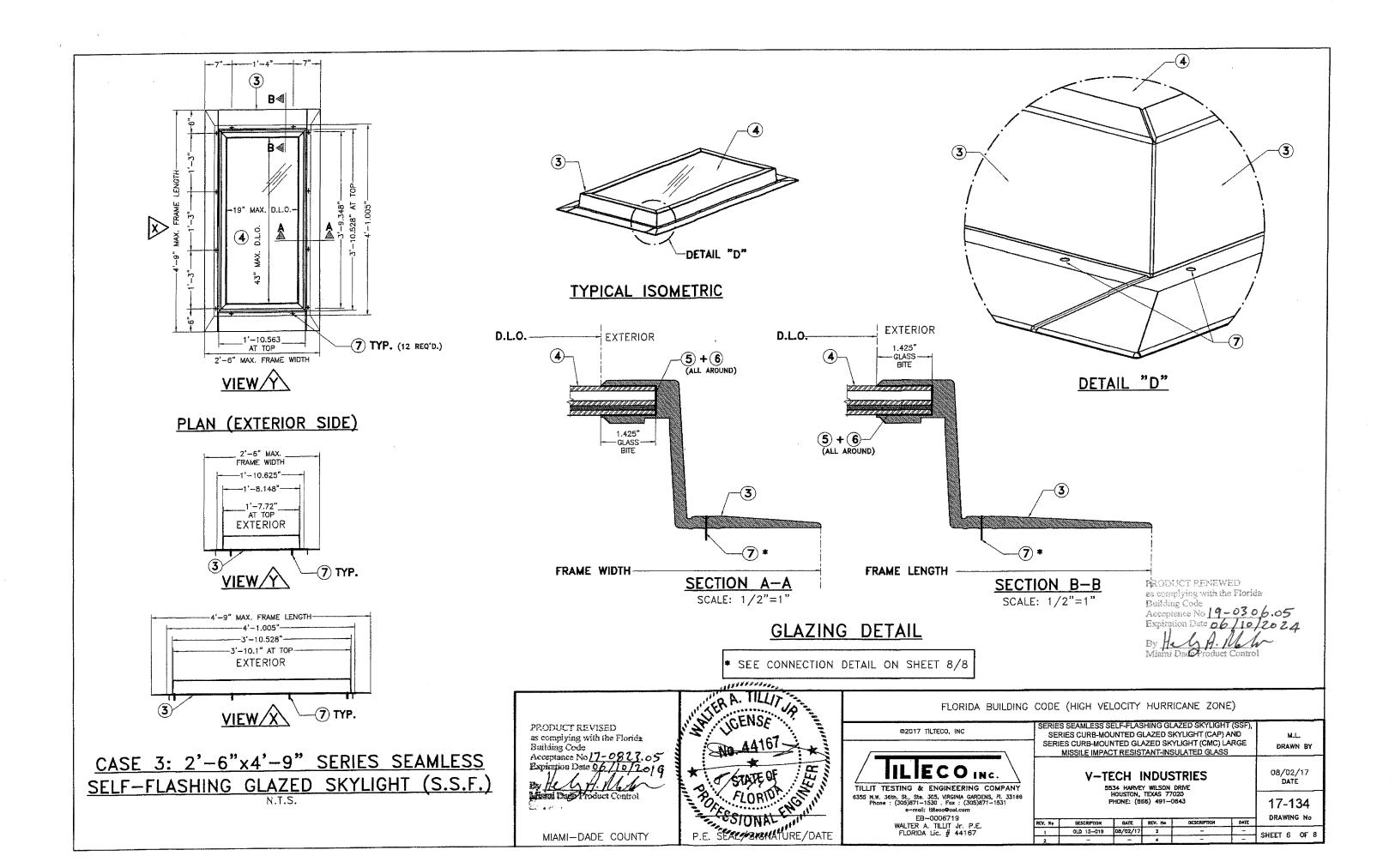


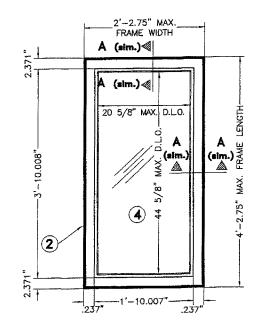
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ILECO INC.

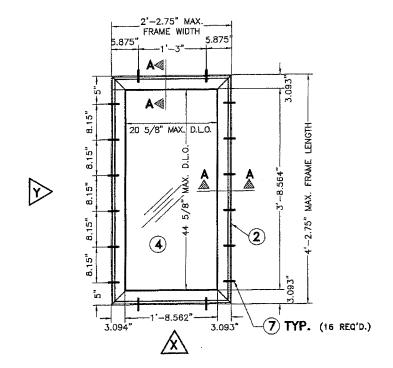
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Sts. 305, VIRGINA GARDENS, Fl. 33166
Phone: (305)871–1530 . Fax: (305)871–1531
e-moil: biteco@ool.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

SER SERIE	S SEAMLESS SE RIES CURB-MOU ES CURB-MOUN MISSILE IMPAC	M.L. DRAWN BY				
	55	34 HARVE	Y WILSON			08/02/17 DATE
			TEXAS 776 56) 491-0			17-134 DRAWING No
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DIAMITO ITO
1	OLD 15-019	08/02/17	3		_	SHEET 5 OF 8
		_ 1	1			SUEEL S ALO



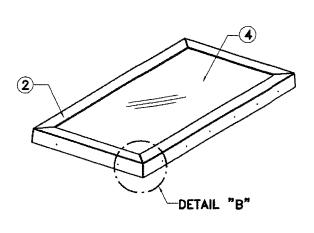


PLAN (INTERIOR SIDE)

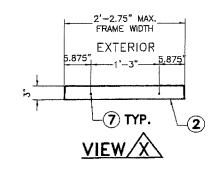


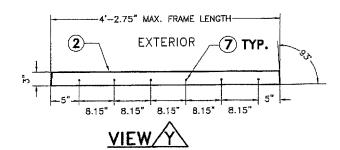
PLAN (EXTERIOR SIDE)

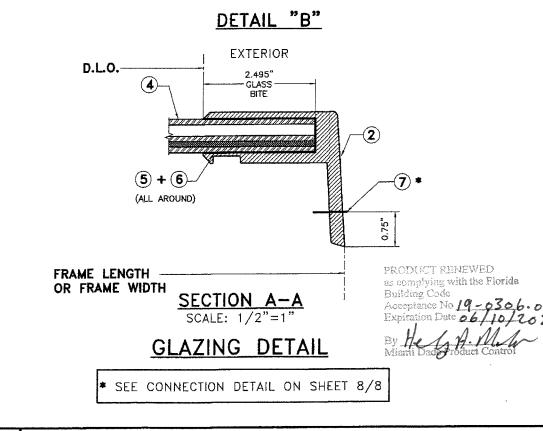
CASE 4: 2'-2 3/4"x4'-2 3/4" SERIES
CURB-MOUNTED GLAZED SKYLIGHT (CAP)
N.T.S.

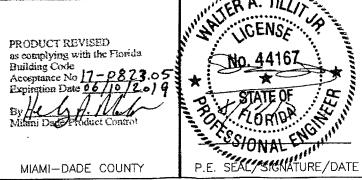


TYPICAL ISOMETRIC



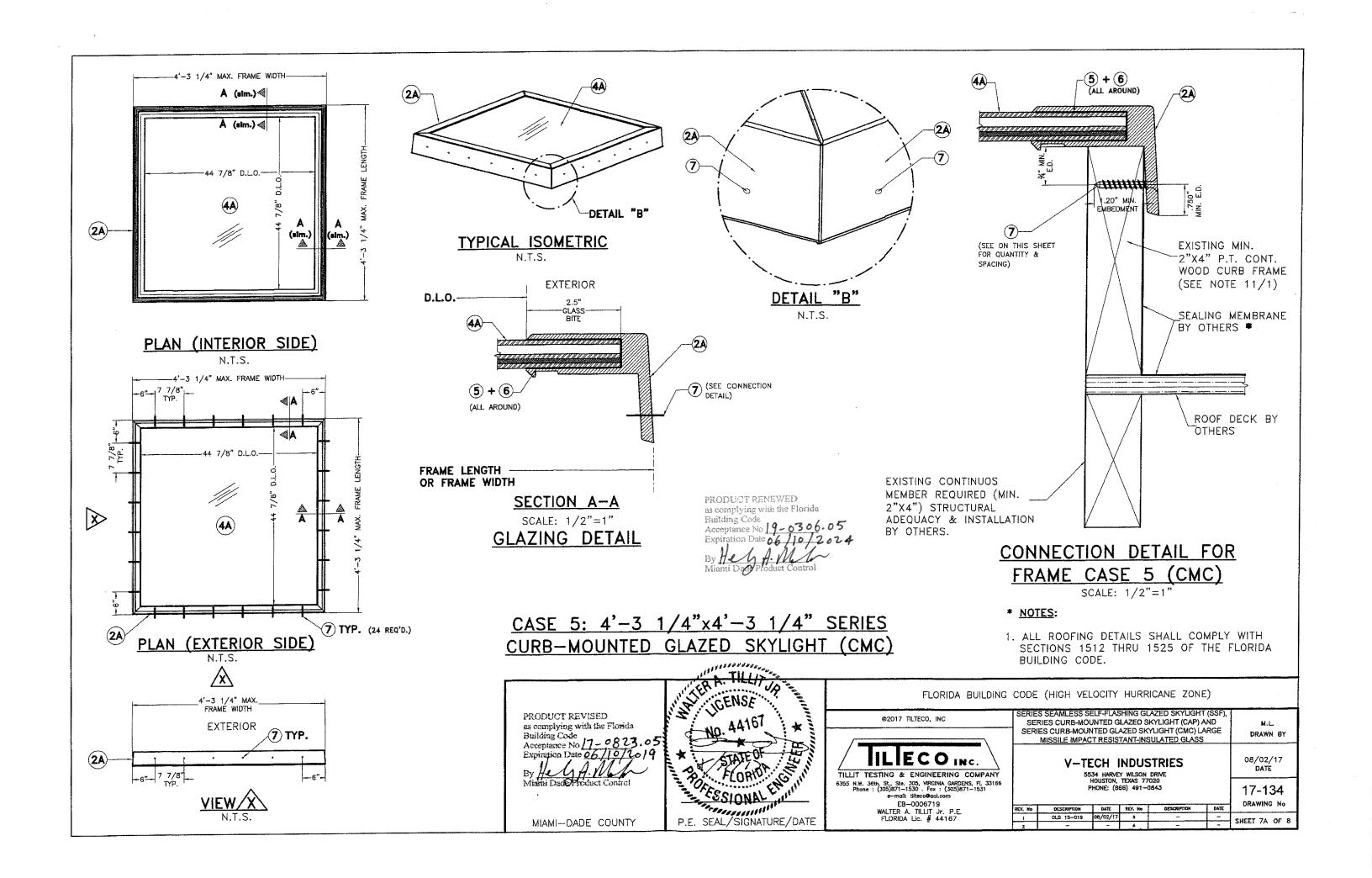


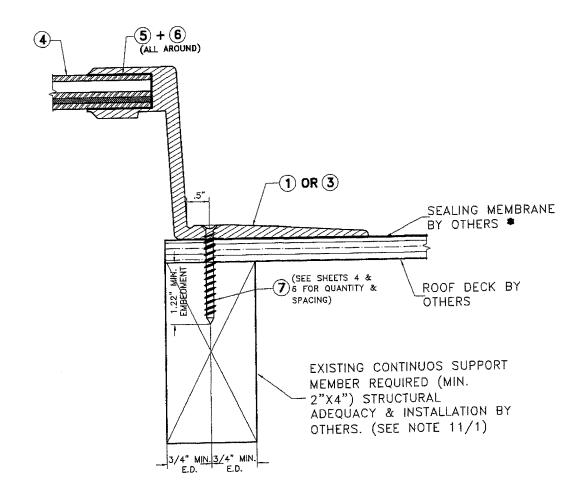




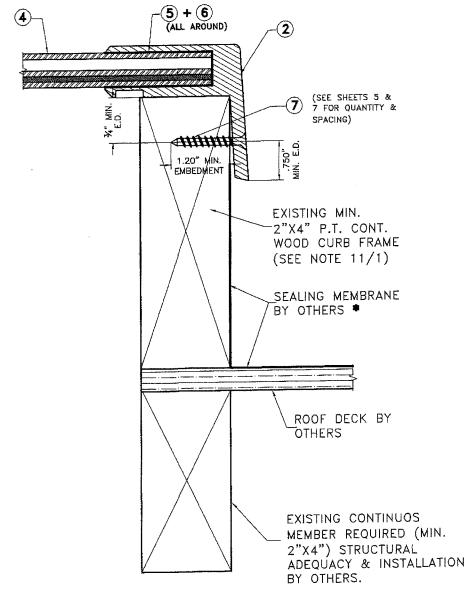
FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

©2017 TILTECO, INC	SERIES SEAMLESS SELF-FLASHING GLAZED SKYLIGHT (SSF), SERIES CURB-MOUNTED GLAZED SKYLIGHT (CAP) AND SERIES CURB-MOUNTED GLAZED SKYLIGHT (CMC) LARGE MISSILE IMPACT RESISTANT-INSULATED GLASS					ND .	M.L. DRAWN BY
TILIECO INC. TILLIT TESTING & ENGINEERING COMPANY	V-TECH INDUSTRIES						08/02/17 DATE
6355 N.W. 36th, St., Ste. 305, VIRGINIA GARDENS, Fl. 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: titeco@aol.com			HOUSTON,	TEXAS 774 66) 491-0	020		17-134
EB0006719 WALTER A. TILLIT Jr. P.E.	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DRAWING No
FLORIDA Lic. # 44167		OLD 15-019	08/02/17	3			SHEET 7 OF





CASES 1 & 3 (SSF)



CONNECTION DETAIL FOR FRAME CASES 2 & 4 (CAP)

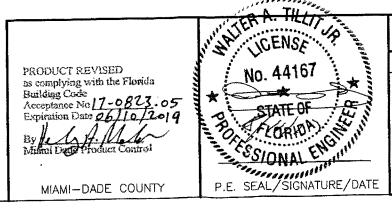
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 19-0306.05
Expiration Date 06 / 10/2024
By H. A. Miami Dago Product Control

* NOTES:

1. ALL ROOFING DETAILS SHALL COMPLY WITH SECTIONS 1512 THRU 1525 OF THE FLORIDA BUILDING CODE.

CONNECTION DETAILS

SCALE: 1/2"=1"



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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SERIES SEAMLE
SERIES CURBMISSILE I

TILLIT TESTING & ENGINEERING COMPANY
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Phora : (0.50)871-1530 : Fox : (3.05)871-1531 :
e-mail: tilteca@aol.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

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