



**MIAMI-DADE COUNTY**  
**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)**  
**BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**PRODUCT CONTROL SECTION**  
 11805 SW 26<sup>th</sup> Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/building](http://www.miamidade.gov/building)

**Jeld-Wen, Inc (OR)**  
**3737 Lakeport Boulevard**  
**Klamath Falls, OR 97601**

**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 Section 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 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. BORA 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 "Builders 4100" Aluminum Single Hung Window – Non Impact.**

**APPROVAL DOCUMENT:** Drawing No. **JW007**, titled "Series Builders Aluminum 4100 Single Hung Window (Non-Impact)", sheets 1 through 6 of 6, dated 11/09/10 with the latest revision dated 12/27/10, prepared by CertWorks, LLC, signed and sealed by Kristina S. Daugherty, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None.**

**LIMITATIONS:** Miami-Dade County Product Control Approved Shutters or Protection Devices Shall Be Required.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 consists of this page 1, evidence submitted page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
 01/20/2011

**NOA No. 10-0810.02**  
**Expiration Date: 01/20/2016**  
**Approval Date: 01/20/2011**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **JW007**, titled "Series Builders Aluminum 4100 Single Hung Window (Non-Impact)", sheets 1 through 6 of 6, dated 11/09/10 with the latest revision dated 12/27/10, prepared by CertWORKS, LLC, signed and sealed by Kristina S. Daugherty, 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  
along with marked-up drawings and installation diagram of single hung window, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NTCL-210-3656-1**, dated 04/07/10, signed and sealed by Gerard J. Ferrara, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by CertWORKS, LLC, dated 06/17/10, signed sealed and dated 12/27/10 by Kristina S. Daugherty, P. E.  
**Complies with ASTM E1300-04**

**D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC).

**E. MATERIAL CERTIFICATIONS**

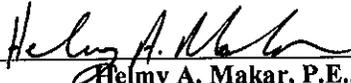
1. None.

**F. STATEMENTS**

1. Statement letter of conformance, no financial interest and compliance with the FBC 2007, dated June 17, 2010, signed and sealed by Kristina S. Daugherty, P. E.
2. Laboratory compliance letter for Test Report No. **NTCL-210-3656-1**, issued by National Certified Testing Laboratories, Inc., dated April 07, 2010, signed and sealed by Gerard J. Ferrara, P. E.
3. Proposal No. **10-0052** issued by BCCO, dated April 05, 2010, signed by Manuel Perez, P. E.

**G. OTHERS**

1. None.

  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.  
BNC Product Control Unit Supervisor  
NOA No. 10-0810.02  
Expiration Date: 01/20/2016  
Approval Date: 01/20/2011

# JELD-WEN, inc.

## BUILDERS ALUMINUM 4100 SINGLE HUNG WINDOW (NON-IMPACT)

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. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. **THROUGH FRAME:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. **THROUGH FRAME:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 3/4 INCH MINIMUM EMBEDMENT.
7. **THROUGH FRAME:** FOR INSTALLATION INTO STEEL STUD USE #10 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS ENGAGEMENT.
8. **NAIL FIN:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
9. **NAIL FIN:** FOR INSTALLATION INTO STEEL STUD USE #8 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS ENGAGEMENT.
10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
13. 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.
14. 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 2700 PSI.
  - C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 100 MILS (0.1 IN. or 12 GAUGE).

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2007 FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
  - TAS 202-94
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 FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
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 ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300-04 GLASS CHARTS. SEE SHEET S FOR GLAZING DETAILS.

TABLE OF CONTENTS		
SHEET	REVISION	SHEET DESCRIPTION
1	-	INSTALLATION & GENERAL NOTES
2	-	ELEVATION & ANCHOR LAYOUT
3	-	VERTICAL SECTIONS
4	-	HORIZONTAL SECTIONS
5	-	COMPONENTS, BOM, & GLAZING DETAILS
6	-	CORNER ASSEMBLIES

UNIT DIMENSIONS: 52.125" X 72"			
GLAZE TYPE	DESIGN PRESSURE	W/ WATER INFILTRATION	MISSILE IMPACT RATING
A	+50.0 / -50.0 PSF	W/ WATER INFILTRATION	NON-IMPACT
	+50.0 / -50.0 PSF	W/O WATER INFILTRATION	
UNIT DIMENSIONS: 52.125" X 72"			
GLAZE TYPE	DESIGN PRESSURE	W/ WATER INFILTRATION	MISSILE IMPACT RATING
B	+50.0 / -50.0 PSF	W/ WATER INFILTRATION	NON-IMPACT
	+50.0 / -50.0 PSF	W/O WATER INFILTRATION	

TITLE: BA 4100 SH WINDOW  
INSTALLATION &  
GENERAL NOTES

PREPARED BY:  
CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366

NO.	DESCRIPTION	BY	DATE

  
 KRISTINA S. DALCHERTY  
 FLORIDA P. E. NO. 0810.02  
 127 W. FAIRBANKS AVE., STE. 438  
 WINTER PARK, FL 32789  
 PEPE CERT. OF AUTHORIZATION NO. 28850

Approved as complying with the  
Florida Building Code  
Date 01/20/2011  
NOA# 10-0810.02  
Miami Dade Product Control  
By Heung A. Heung

DATE: 11.09.10  
DWN BY: JLA  
CHK BY: KSD  
SCALE: NTS

DWG #: **JW007**

SHEET: **1 OF 6**

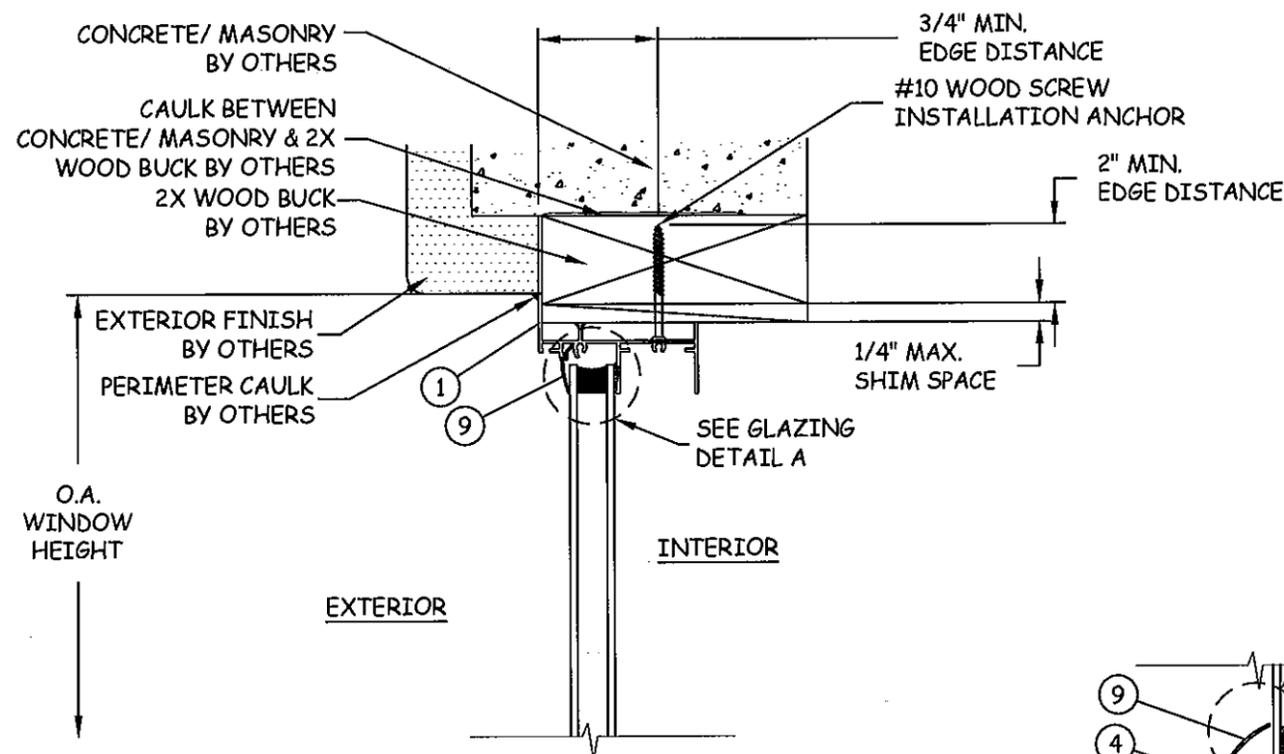
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p:\projects\jeld-wen\10-1046.1 (service 4100 single hung window)\dwgs\jw007.dwg

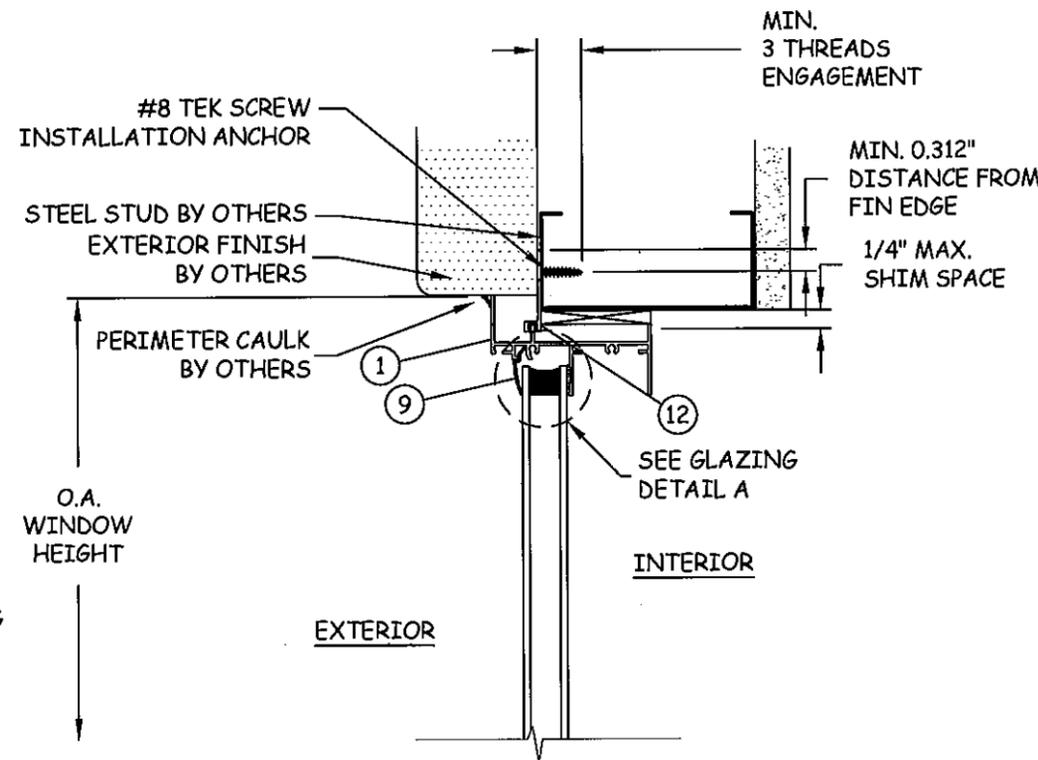


TITLE: BA 4100 SH WINDOW  
VERTICAL SECTIONS

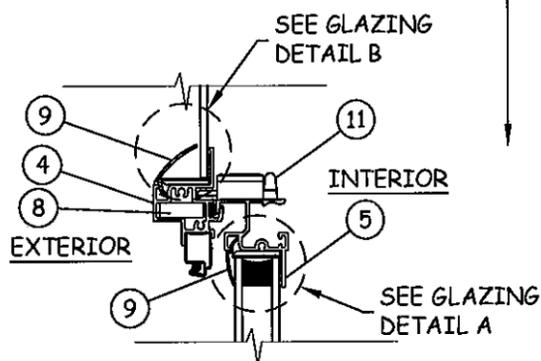
PREPARED BY:  
**CERTWORKS, LLC**  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366



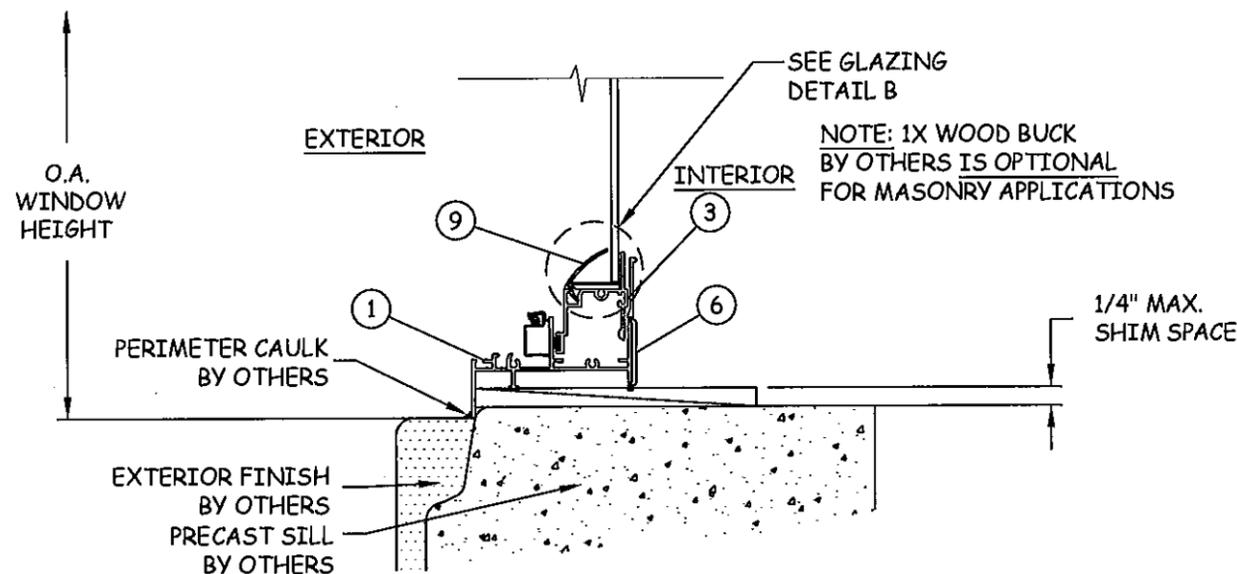
**B**  
**3** VERTICAL SECTION  
HEAD - 2X WOOD BUCK  
THROUGH FRAME INSTALLATION



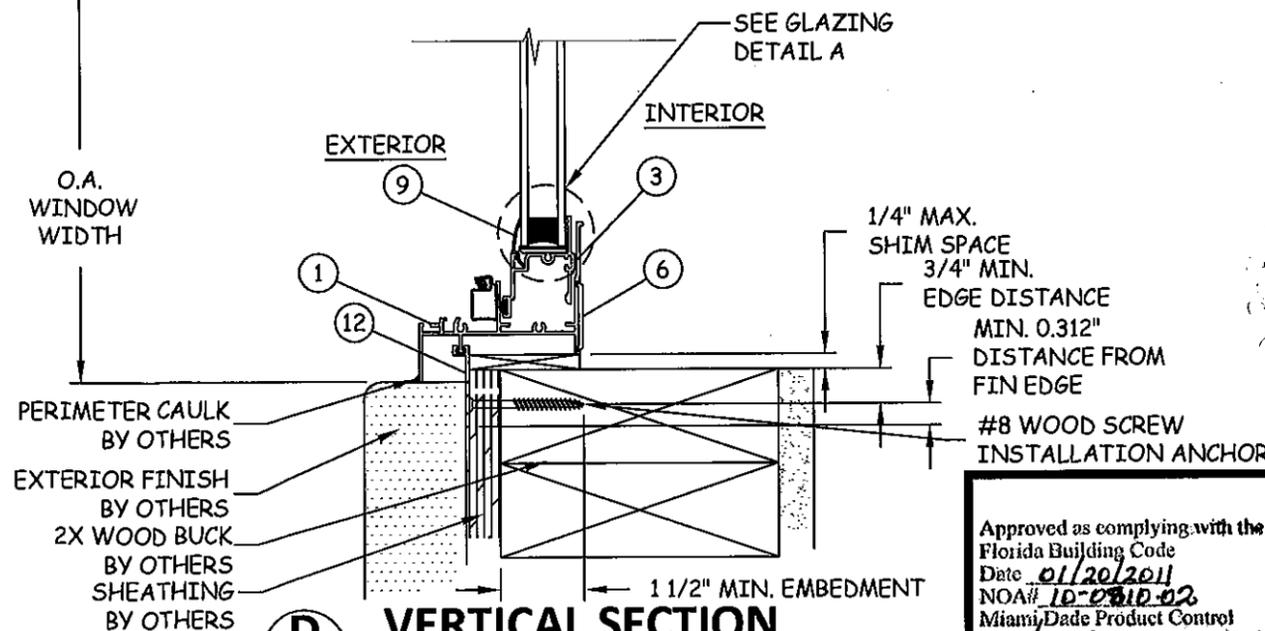
**C**  
**3** VERTICAL SECTION  
HEAD - STEEL STUD  
NAIL FIN INSTALLATION



**E**  
**3** VERTICAL SECTION  
MEETING RAIL



**A**  
**3** VERTICAL SECTION  
SILL - CONCRETE/MASONRY  
THROUGH FRAME INSTALLATION



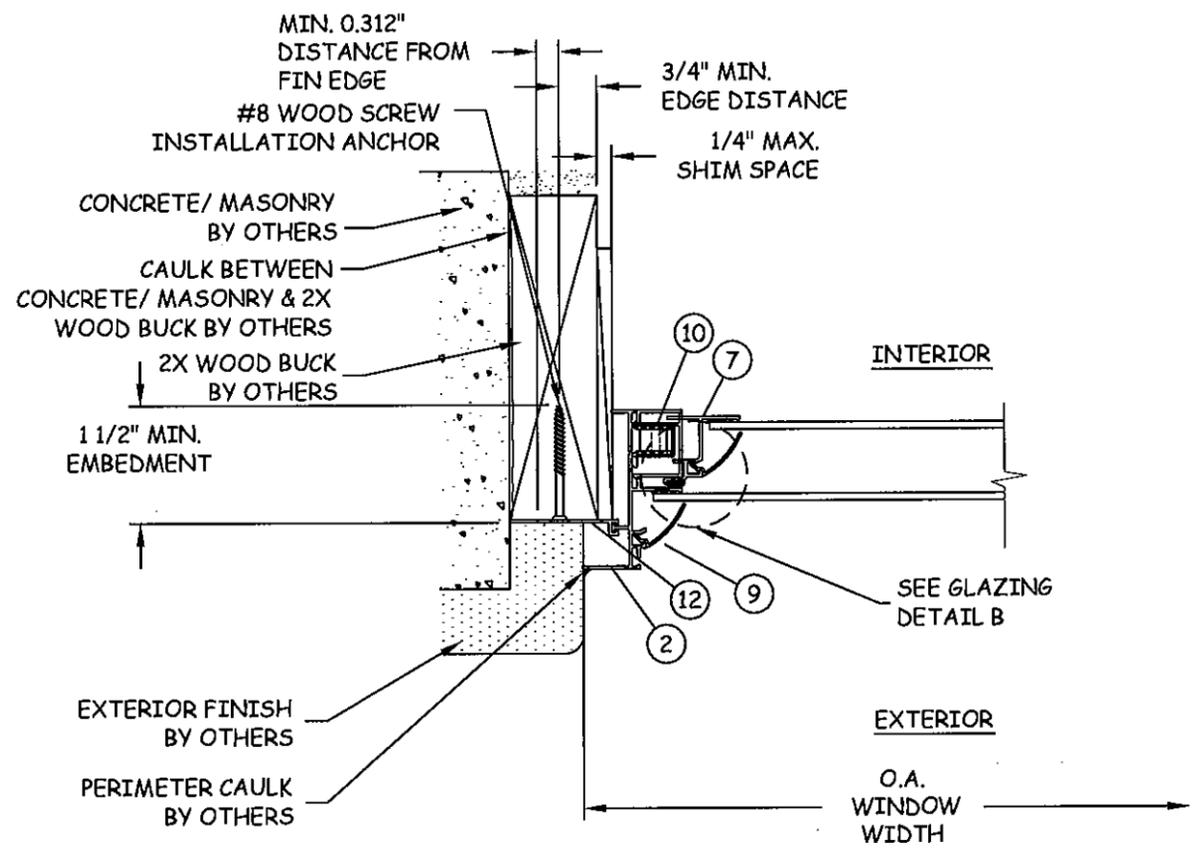
**D**  
**3** VERTICAL SECTION  
SILL - 2X WOOD FRAME  
NAIL FIN INSTALLATION

Approved as complying with the  
Florida Building Code  
Date 01/20/2011  
NOA# 10-0810-02  
Miami Dade Product Control  
By *Heather A. Walker*

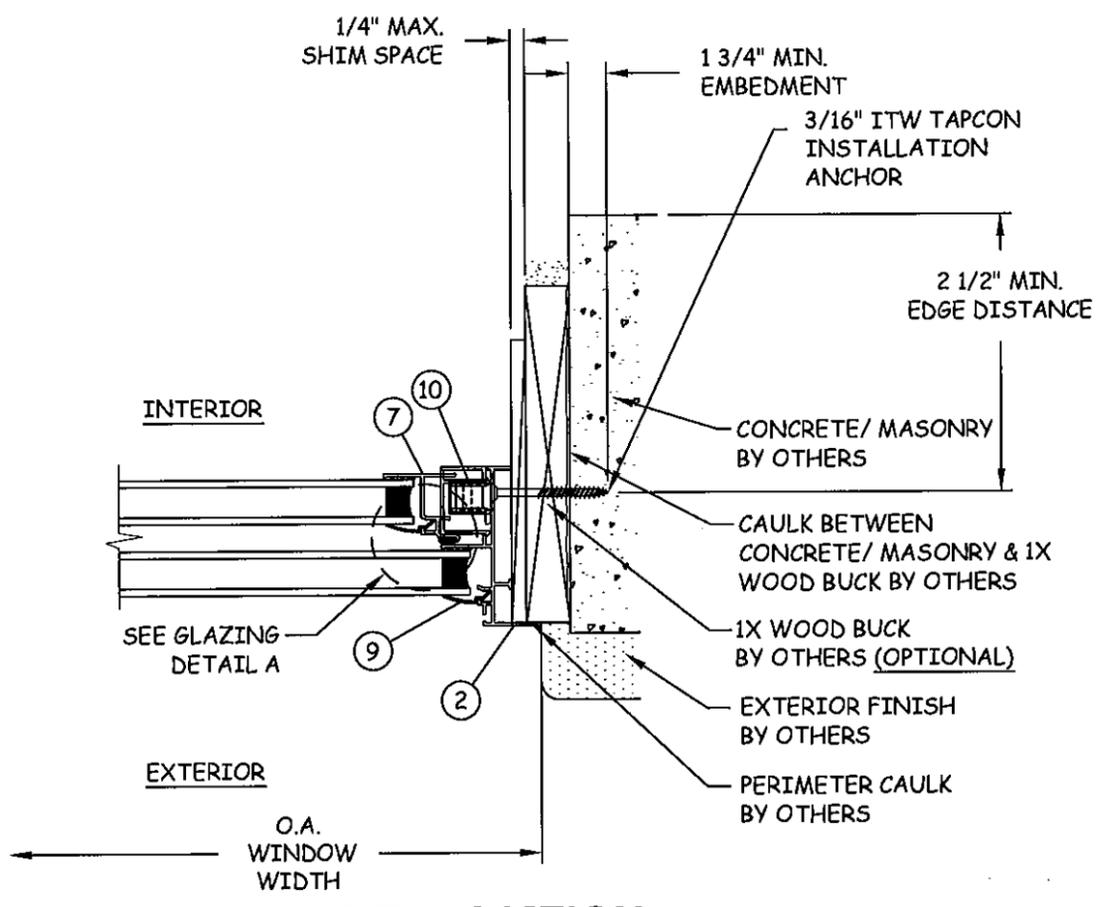
NO.	DESCRIPTION	REVISIONS	
		BY	DATE

*Kristina S. Daligerry*  
12-27-10  
KRYSTINA S. DALIGERRY  
FLORIDA P.E. NO. 68485  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
FIRE CERT. OF AUTHORIZATION NO. 68560

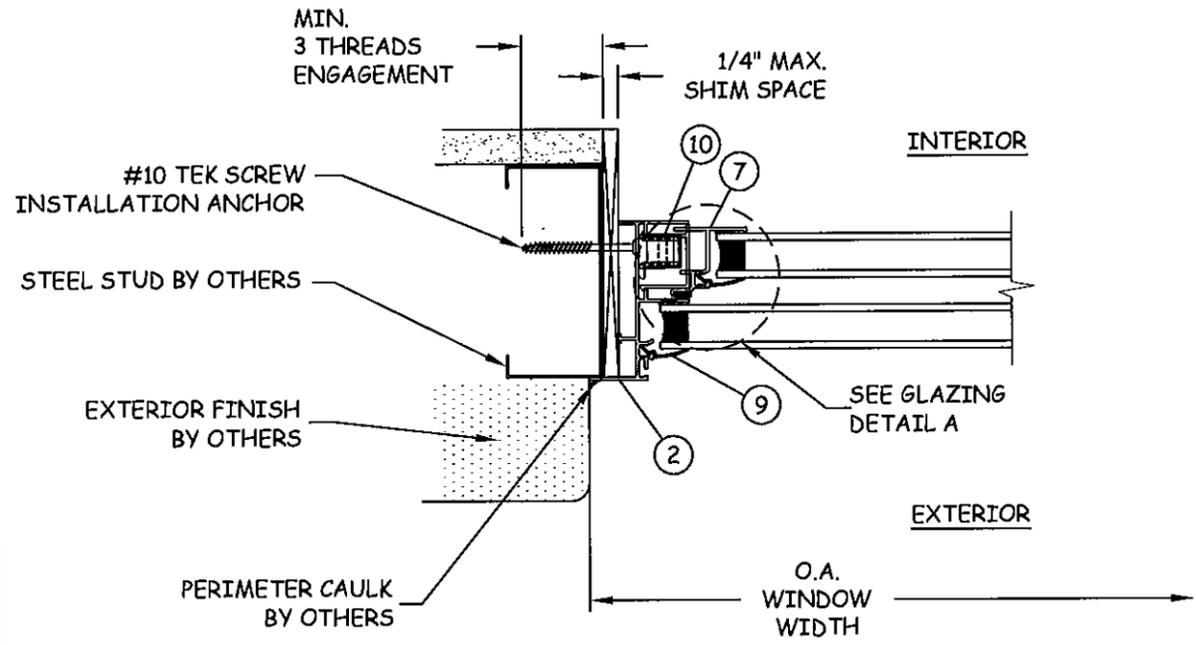
DATE: 11.09.10  
DWN BY: JLA  
CHK BY: KSD  
SCALE: NTS  
DWG #: JW007  
SHEET: 3 OF 6



**F**  
**4** **HORIZONTAL SECTION**  
JAMB - 2X WOOD BUCK  
NAIL FIN INSTALLATION



**G**  
**4** **HORIZONTAL SECTION**  
JAMB - CONCRETE/MASONRY  
THROUGH FRAME INSTALLATION



**H**  
**4** **VERTICAL SECTION**  
JAMB-STEEL STUD  
THROUGH FRAME INSTALLATION

TITLE: BA 4100 SH WINDOW  
HORIZONTAL SECTIONS

PREPARED BY: CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366

NO.	REVISIONS	DESCRIPTION	BY	DATE

*[Handwritten Signature]*  
12-27-10  
KRISTINA S. DAUGHERTY  
FLORIDA P.E. NO. 68435  
127 W. FAIRBANKS AVE. STE. 438  
WINTER PARK, FL 32789  
FSP# CERT. OF AUTHORIZATION NO. 285820

Approved as complying with the  
Florida Building Code  
Date 01/20/2011  
NOA# 10-0810-02  
Miami Dade Product Control  
By *[Handwritten Signature]*

DATE: 11.09.10  
DWN BY: JLA  
CHK BY: KSD  
SCALE: NTS

DWG #: **JW007**  
SHEET: **4 OF 6**

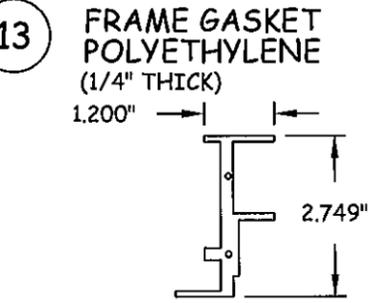
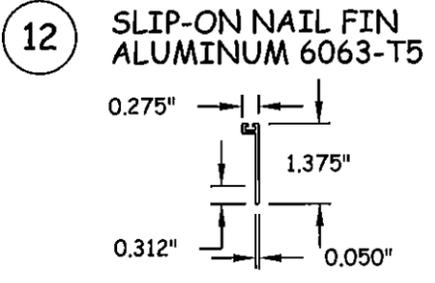
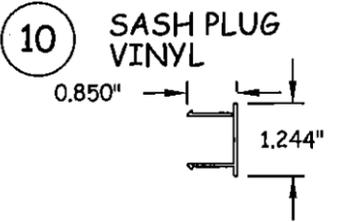
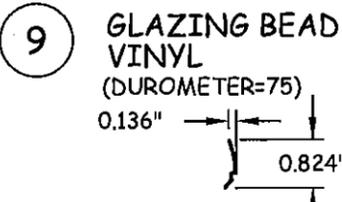
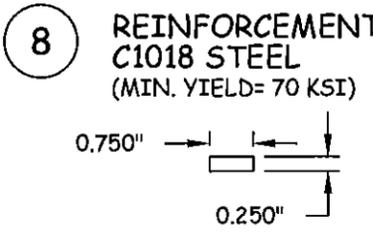
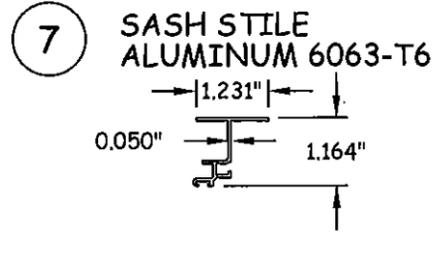
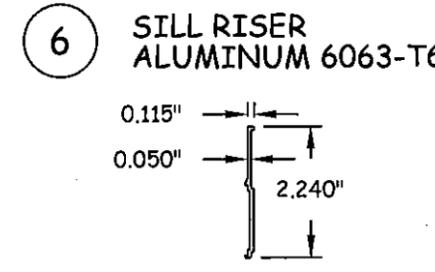
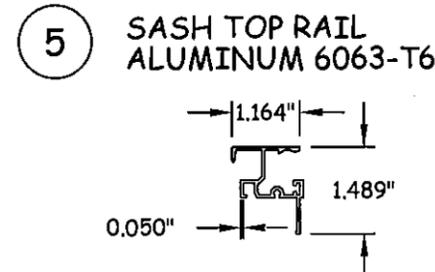
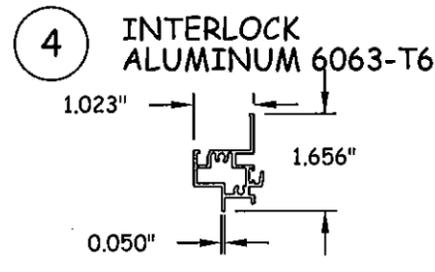
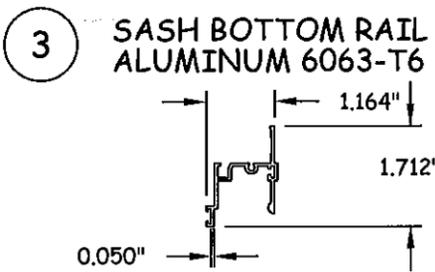
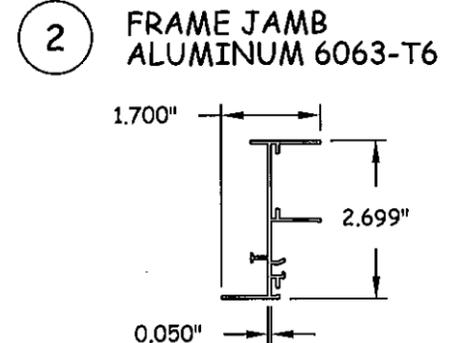
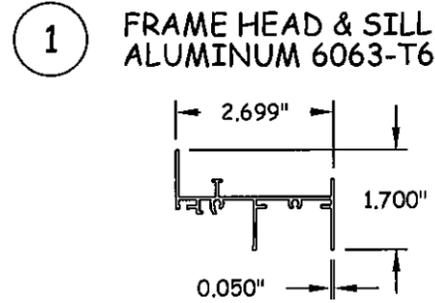
## BILL OF MATERIALS

ITEM NO.	DESCRIPTION	PART NUMBER	MATERIAL	MANUFACTURER
1	FRAME HEAD & SILL	01968	AL. 6063-T6	SAPA
2	FRAME JAMB	01969	AL. 6063-T6	SAPA
3	SASH BOTTOM RAIL	02045	AL. 6063-T6	SAPA
4	INTERLOCK	02044	AL. 6063-T6	SAPA
5	SASH TOP RAIL	02047	AL. 6063-T6	SAPA
6	SILL RISER	02407	AL. 6063-T6	SAPA
7	SASH STILE	02049	AL. 6063-T6	SAPA
8	REINFORCEMENT	02067	C1018 STEEL	ALRO METALS
9	GLAZING BEAD	00895	VINYL	MICRON, INC.
10	SASH PLUG	07517	VINYL	BORDNER
11	SASH LOCK	04978	ZINC	VISION HARDWARE
12	SLIP-ON NAIL FIN	00591	AL. 6063-T5	SAPA
13	BUILDERS GASKET	05035	POLYETHYLENE	FRANK-LOWE
14	SEAM SEALER	00093	-	SCHNEED-MOREHEAD

**JELD-WEN**  
WINDOWS & DOORS

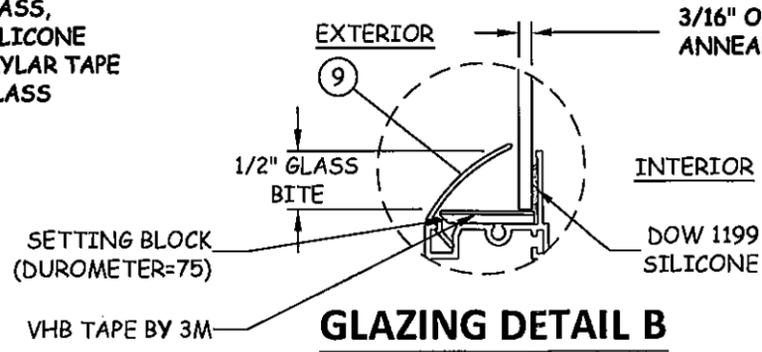
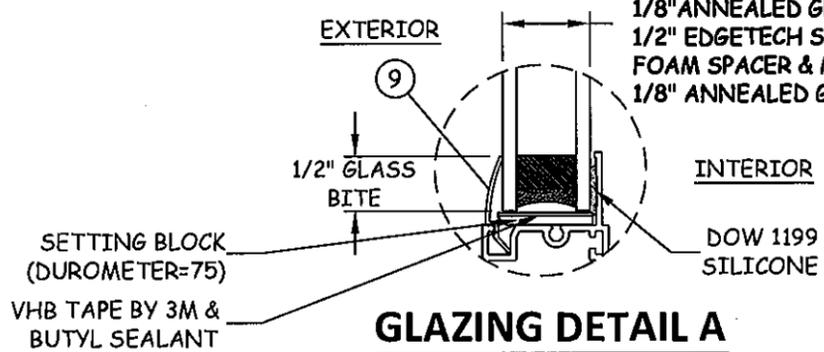
JELD-WEN, inc.  
355 CENTER COURT  
VENICE, FL 34285  
PH: (800) 869-6699

TITLE: BA 4100 SH WINDOW COMPONENTS, BOM, & GLAZING DETAILS  
PREPARED BY: CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366



3/4" O.A. INSULATED GLASS CONSISTING OF:  
1/8" ANNEALED GLASS,  
1/2" EDGETECH SILICONE  
FOAM SPACER & MYLAR TAPE  
1/8" ANNEALED GLASS

3/16" O.A. MONOLITHIC ANNEALED GLASS



**REVISIONS**

NO.	DESCRIPTION	BY	DATE

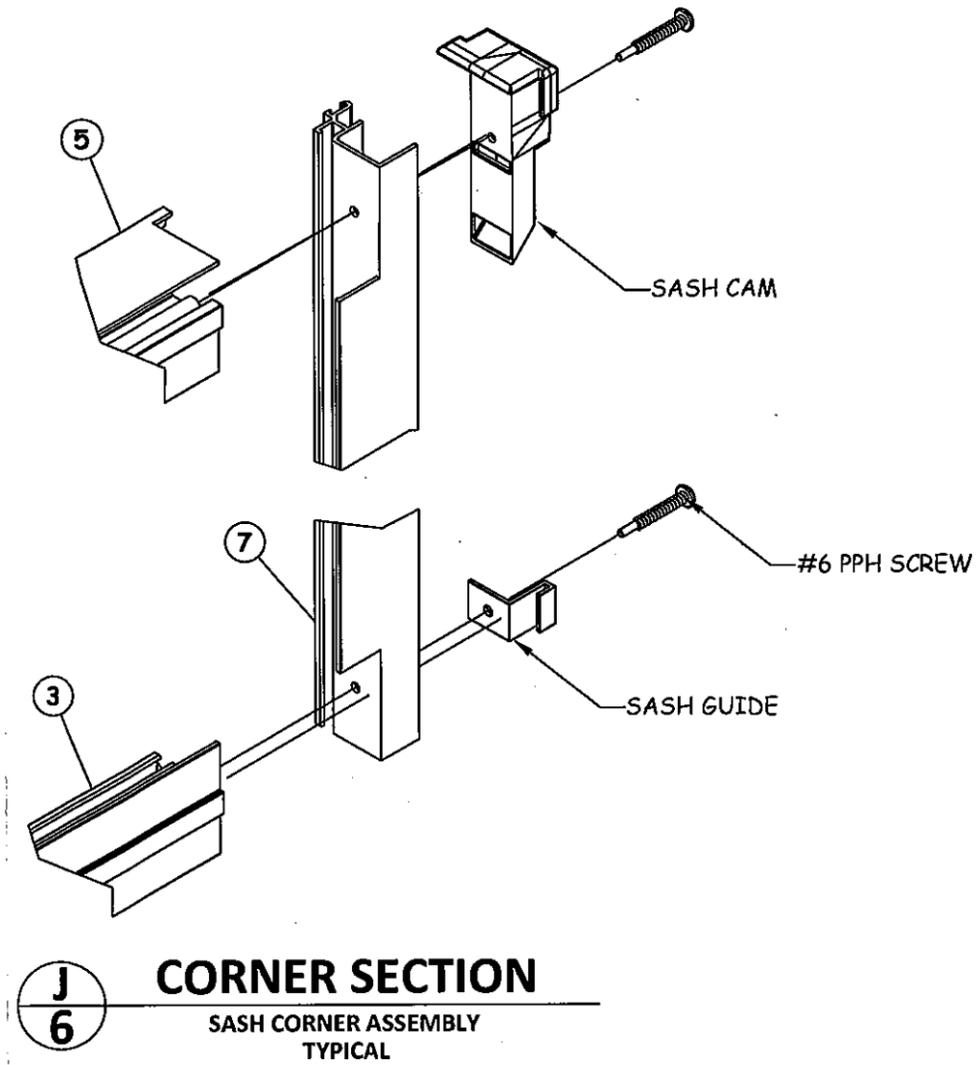
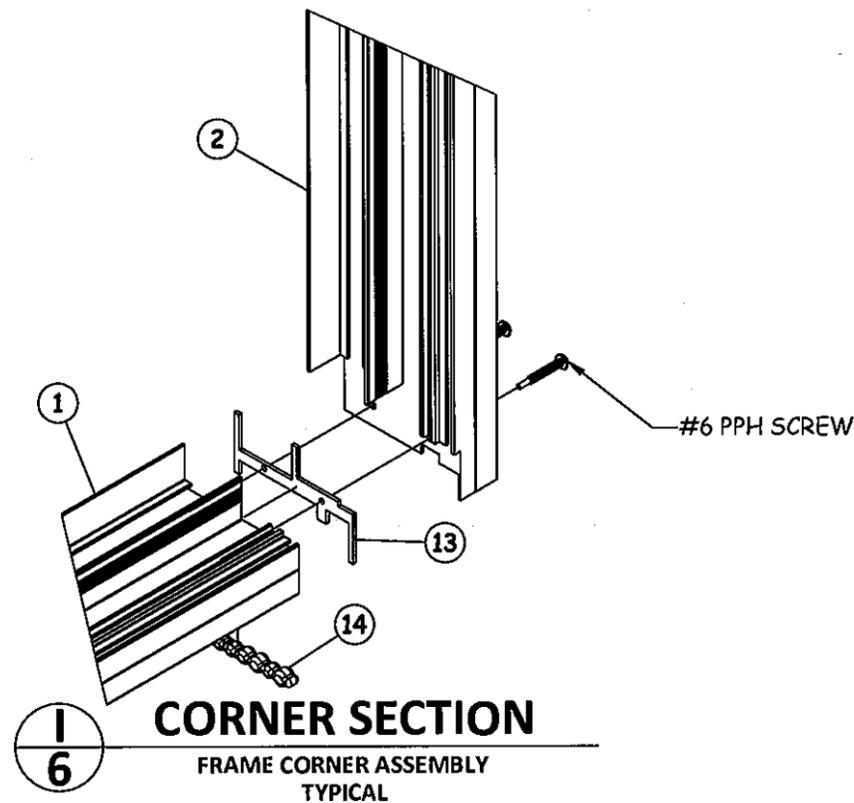
*[Signature]*  
12-22-10  
KRISTINA S. DAUGHERTY  
FLORIDA P.E. NO. 68455  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PEBE CERT. OF AUTHORIZATION NO. 68580

Approved as complying with the Florida Building Code  
Date 01/20/2011  
NOA# 10-0810-02  
Miami Dade Product Control  
By *[Signature]*

DATE: 11.09.10  
DWN BY: JLA  
CHK BY: KSD  
SCALE: NTS  
DWG #: JW007  
SHEET: 5 OF 6

TITLE: BA 4100 SH WINDOW  
CORNER  
ASSEMBLIES

PREPARED BY:  
CERTWORKS, LLC  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PH: (407) 644-6957 FX: (407) 644-2366



REVISIONS	
NO.	DESCRIPTION

*[Signature]*  
12-27-10  
KRISTINA S. DALCHERTY  
FLORIDA P. E. NO. 85455  
127 W. FAIRBANKS AVE., STE. 438  
WINTER PARK, FL 32789  
PEPE CERT. OF AUTHORIZATION NO. 8882C

Approved as complying with the  
Florida Building Code  
Date 01/20/2011  
NOA# 10-0810-02  
Miami Dade Product Control  
By *[Signature]*

DATE: 11.09.10  
DWN BY: JLA  
CHK BY: KSD  
SCALE: NTS

DWG #: **JW007**  
SHEET: **6 OF 6**