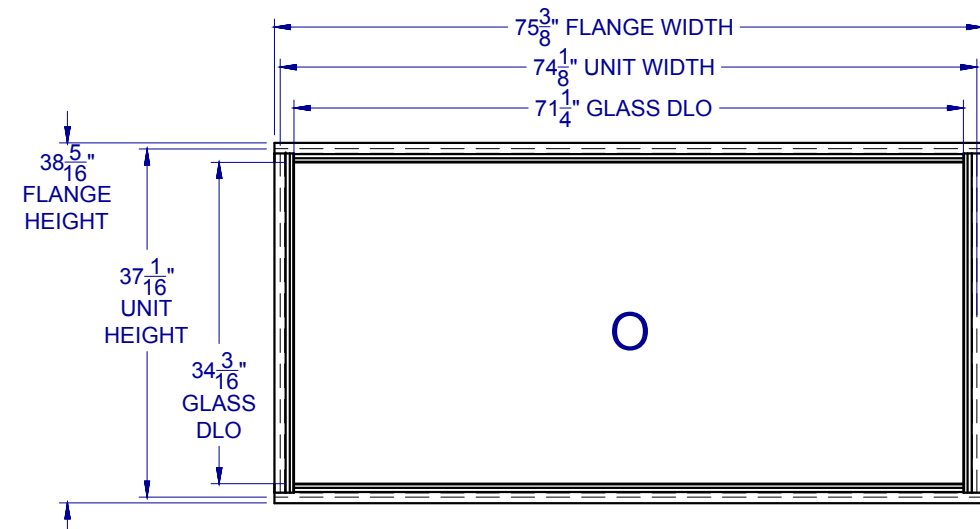
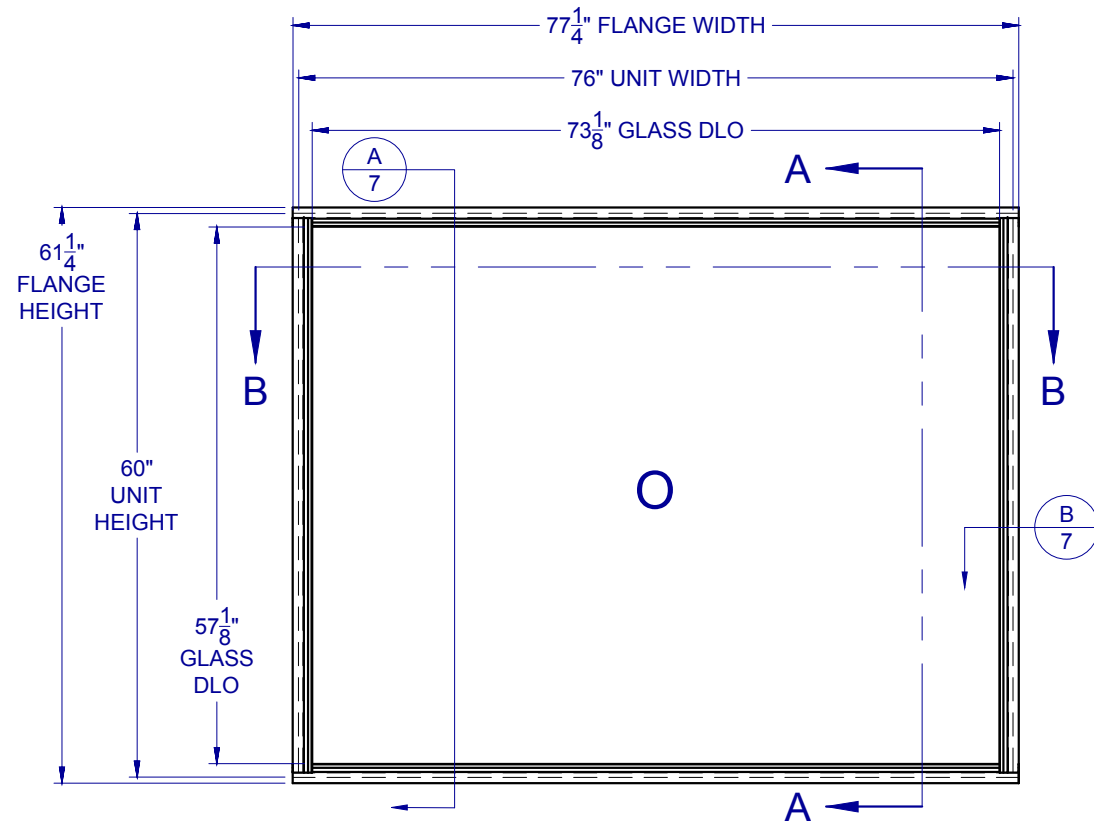


# PICTURE WINDOW - IMPACT



## GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING DETAIL: (SEE SHEET 2)
3. CONFIGURATIONS: "O"
4. DESIGN PRESSURES:
  - NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04.
  - POSITIVE DESIGN LOADS BASED ON TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE, AND GLASS TABLES ASTM E-1300-04.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 7 FOR INSTALLATION DETAIL. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCTS APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
7. ALL JOINTS CAN BE EITHER MECHANICALLY FASTENED OR WELDED AT THE MANUFACTURER'S DISCRETION. SMALL JOINT SEAM SEALANT USED AT ALL JOINTS.
8. SERIES / MODEL DESIGNATION PW-3300. (A.K.A. PW-4700)
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
  - O = FIXED LITE
10. SECTION CALLOUTS APPLY TO ALL CONFIGURATIONS.

**Custom WINDOW SYSTEMS**  
 1900 SW 44TH AVE.  
 Ocala, Florida 34474  
 WWW.CWS.CC

## 3300 ALUM. PICTURE WINDOW IMPACT

NO.:	DESCRIPTION:	BY:	DATE:
C	ADDED IGU'S & SHAPES	BLZ	08/09/16
B	SERIES NAME CHANGE	EMK	10/27/15
A	UPDATED PER 2014 FBC	EMK	03/14/15



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 NORTH PORT, FL 34288  
 PH. 941-380-1574

SHEET DESCRIPTION:

### GENERAL NOTES AND ELEVATIONS

DRAWN BY: ADE	DATE: 07/12/12
DWG #: CWS-811	REV.: C
SCALE: 1:20	SHEET 1 OF 7

### TABLE OF CONTENTS

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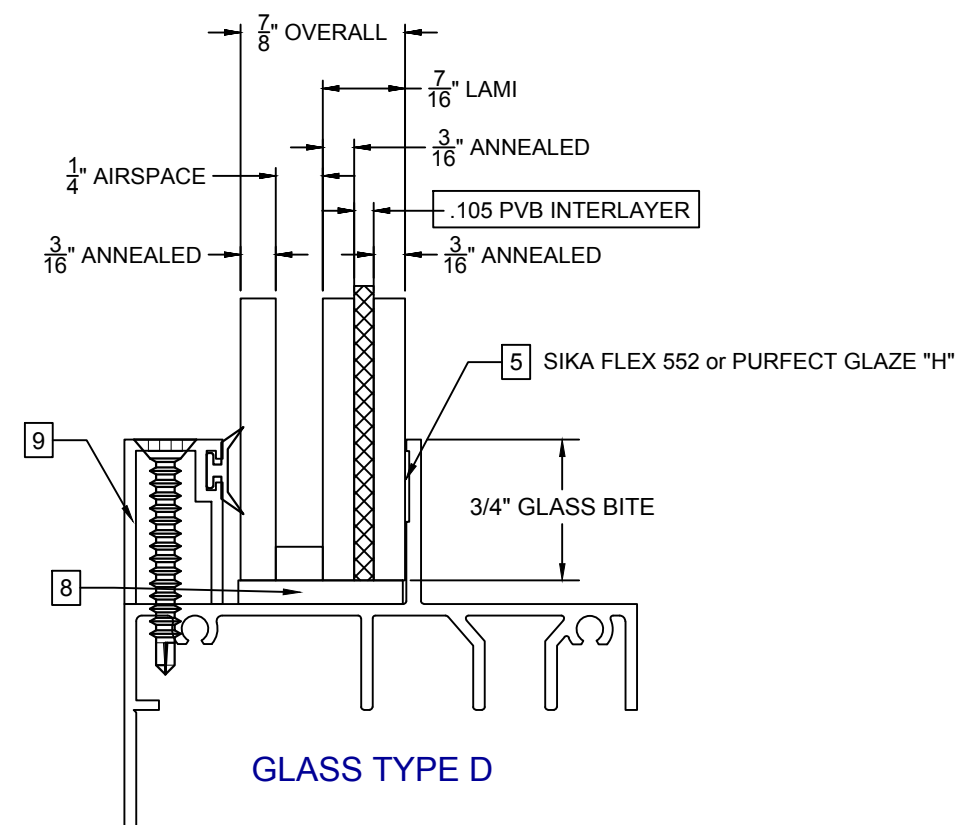
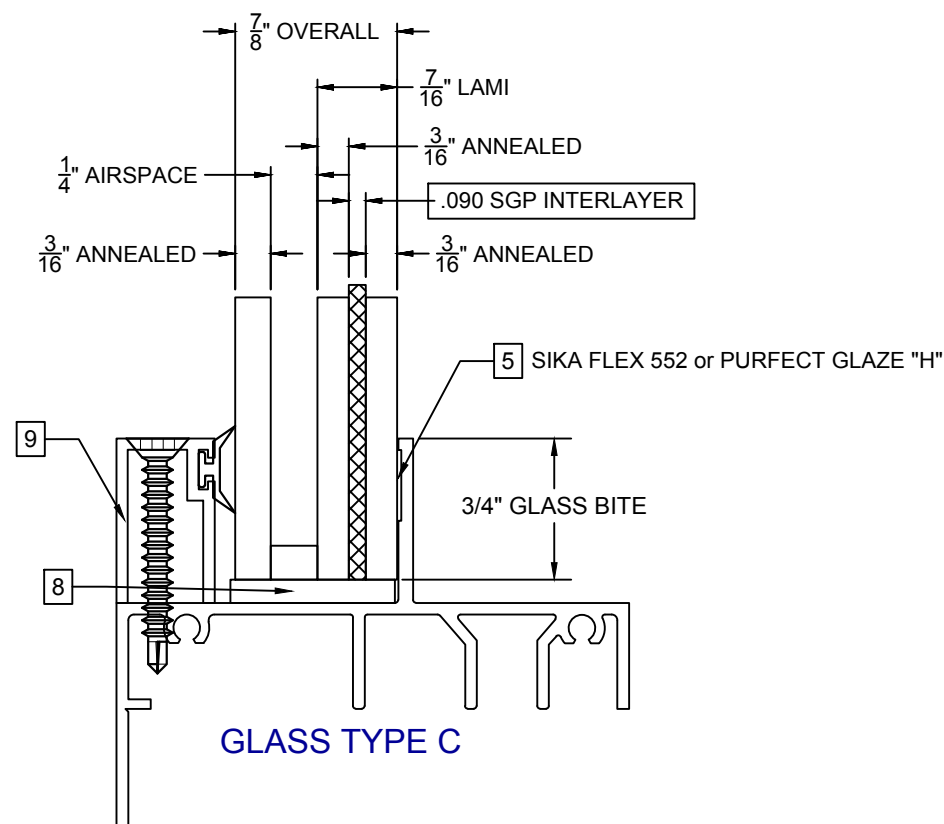
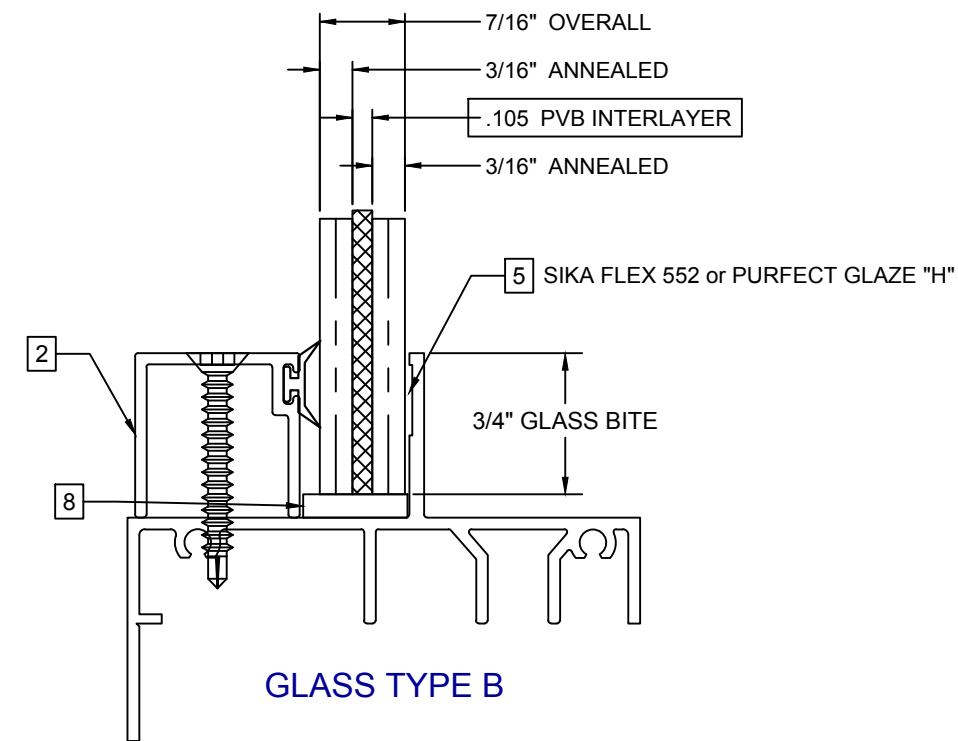
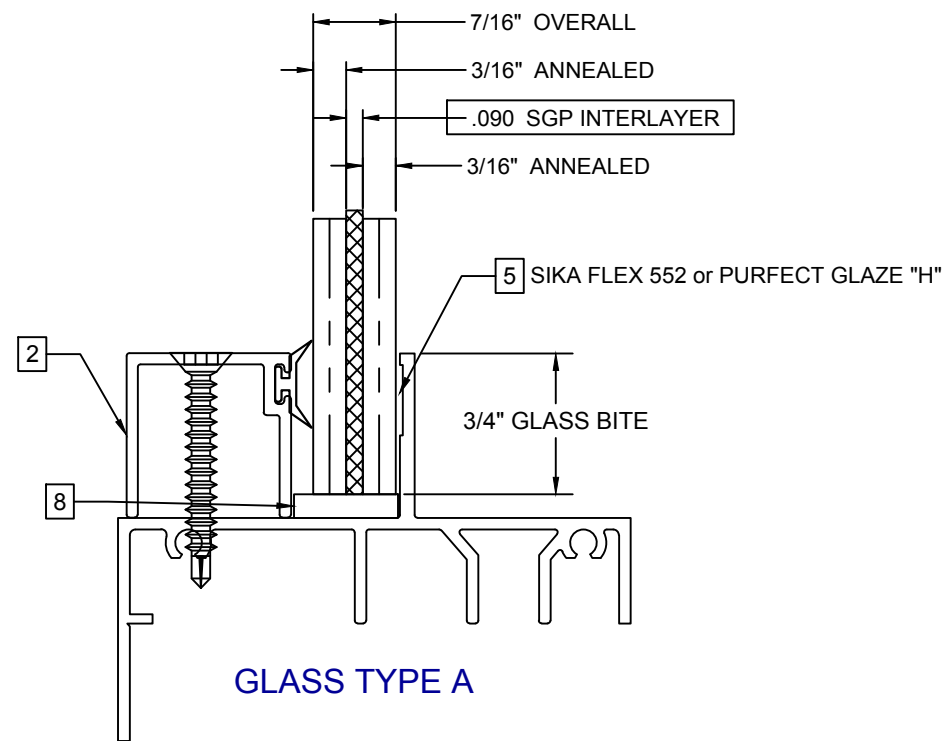
MAX. UNIT SIZE	DESIGN PRESSURE RATING	IMPACT RATING
76" x 60"	+/- 65 PSF	LARGE MISSILE IMPACT
74-1/8" x 37-1/16"	+/- 80 PSF	LARGE MISSILE IMPACT

DESIGN PRESSURE (PSF)	MAX. SIZE	FIXED GLASS
+/- 65	76" x 60"	A or C
+/- 80	74-1/8" x 37-1/16"	B or D

**Custom**  
WINDOW SYSTEMS

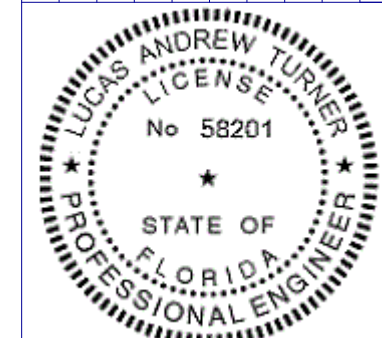
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OCALA, FLORIDA 34474  
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**3300 ALUM.  
PICTURE WINDOW  
IMPACT**



NO.:	DESCRIPTION:	BY:	DATE:
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**GLAZING DETAILS**

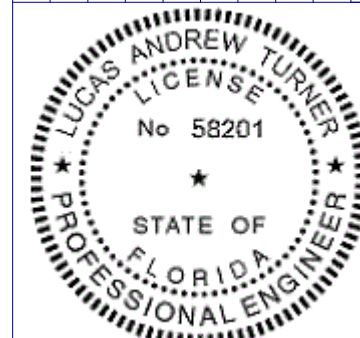
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DWG #: <b>CWS-811</b>	REV.: <b>C</b>
SCALE: <b>1:1</b>	<b>SHEET 2 OF 7</b>



**3300 ALUM.  
PICTURE WINDOW  
IMPACT**

NO.:	DESCRIPTION:	BY:	DATE:
C	ADDED IGU'S & SHAPES	BLZ	08/09/16
B	SERIES NAME CHANGE	EMK	10/27/15
A	UPDATED PER 2014 FBC	EMK	03/14/15

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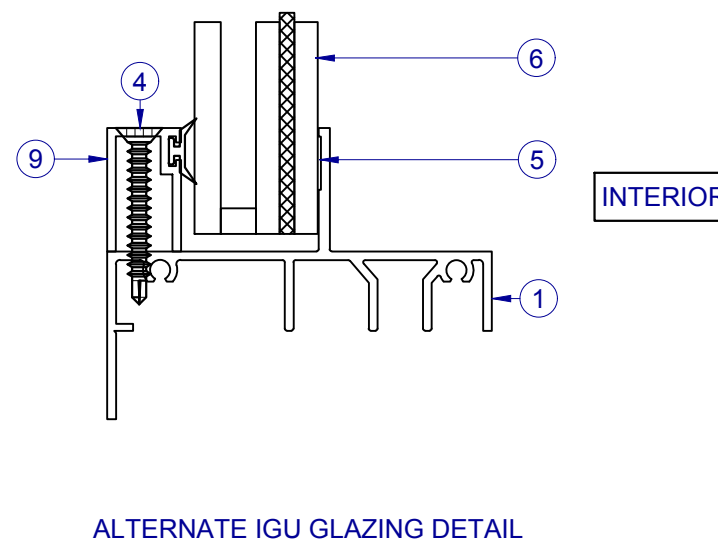
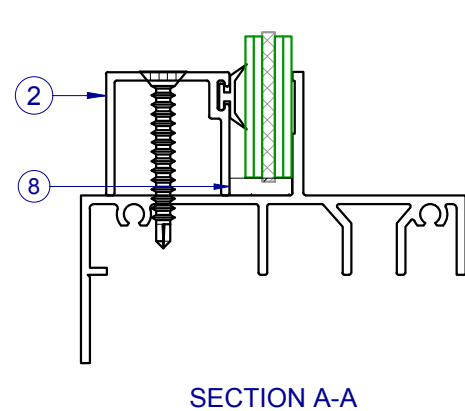
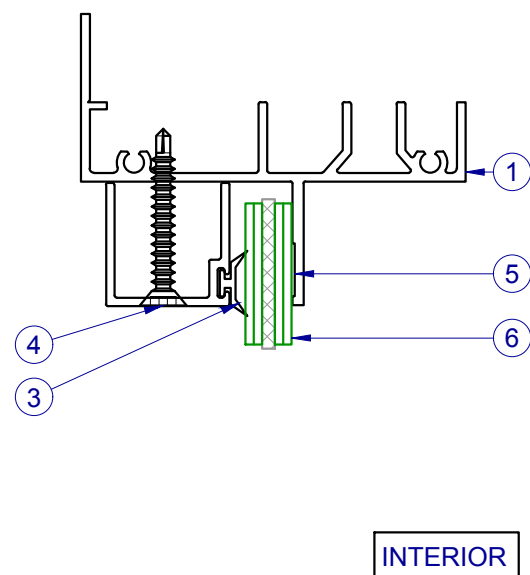
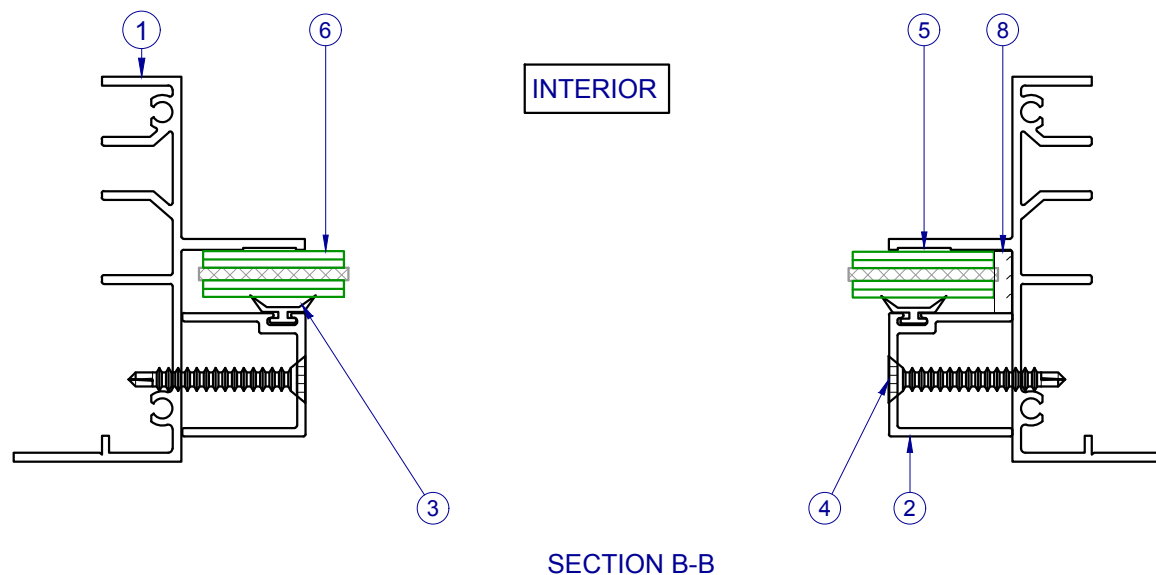
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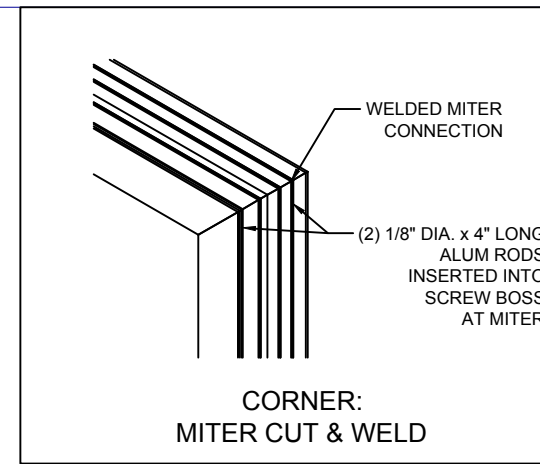
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**SECTION VIEWS**

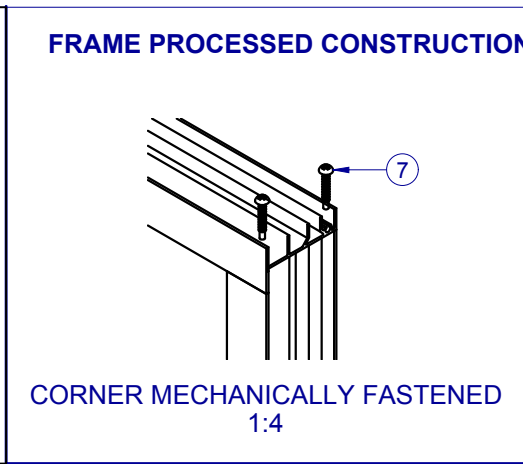
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ADE	07/12/12
DWG #:	REV.:
CWS-811	C
SCALE:	SHEET
1:1.33	4 OF 7



PARTS LIST				
ITEM	PART #	DESCRIPTION	VENDOR	MATERIAL
1	S-1943	Frame, all sides	Keymark	Aluminum
2	S-1944	Glazebead	Keymark	Aluminum
3	P-5317	T-slot, .195 x .187	Ultrafab	
4	P-3516	#8 x 1 1/4" Flat Phil Tek	Fastenal	Steel
5		SikaFlex 552 or Purfect Glaze"H"		
6	GLASS	SEE SHEET 2		
7	P-4144	#8 x 1" Phil Pan W/ 1/4" Lead	Fastenal	Steel
8	P-3352	1/8" x 5/8" x 2" setting block	FrankLowe	Rubber
9	S-1968	Glazebead, I.G.	Keymark	Aluminum
10		Aluminum Rod, 1/8" Dia x 4"		Aluminum



CORNER:  
MITER CUT & WELD

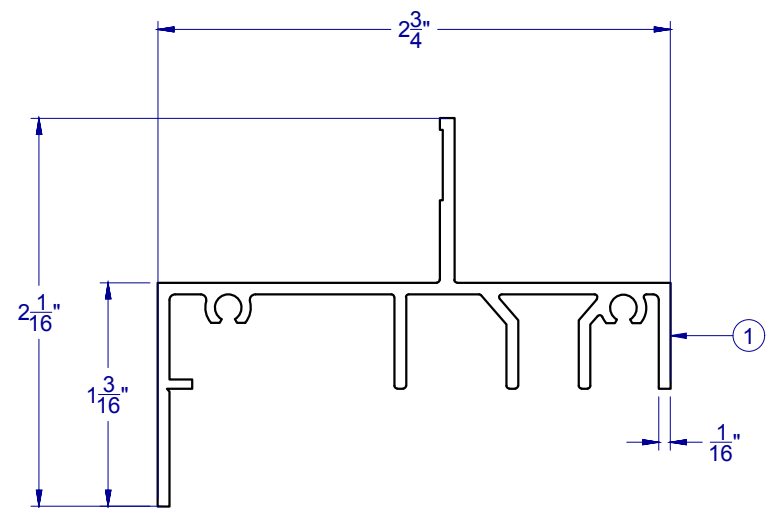


CORNER MECHANICALLY FASTENED  
1:4

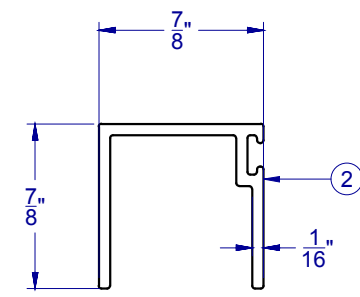
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**3300 ALUM.  
PICTURE WINDOW  
IMPACT**

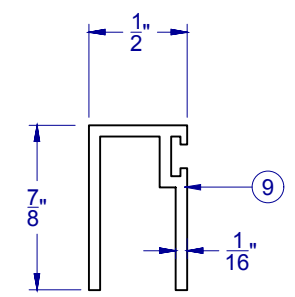
NOTE: ALUMINUM PROFILES ARE 6063-T6 UNLESS OTHERWISE NOTED.



FRAME S-1943



GLAZING BEAD S-1944



I.G. GLAZING BEAD S-1968

NO.	DESCRIPTION:	BY:	DATE:
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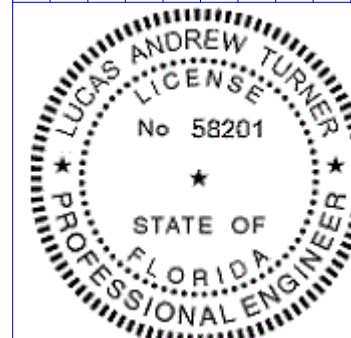
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**BOM AND EXTRUSIONS**

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DWG #: <b>CWS-811</b>	REV.: <b>C</b>
SCALE: <b>1:1</b>	<b>SHEET 5 OF 7</b>

**3300 ALUM.  
PICTURE WINDOW  
IMPACT**

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C	ADDED IGU'S & SHAPES	BLZ	08/09/16
B	SERIES NAME CHANGE	EMK	10/27/15
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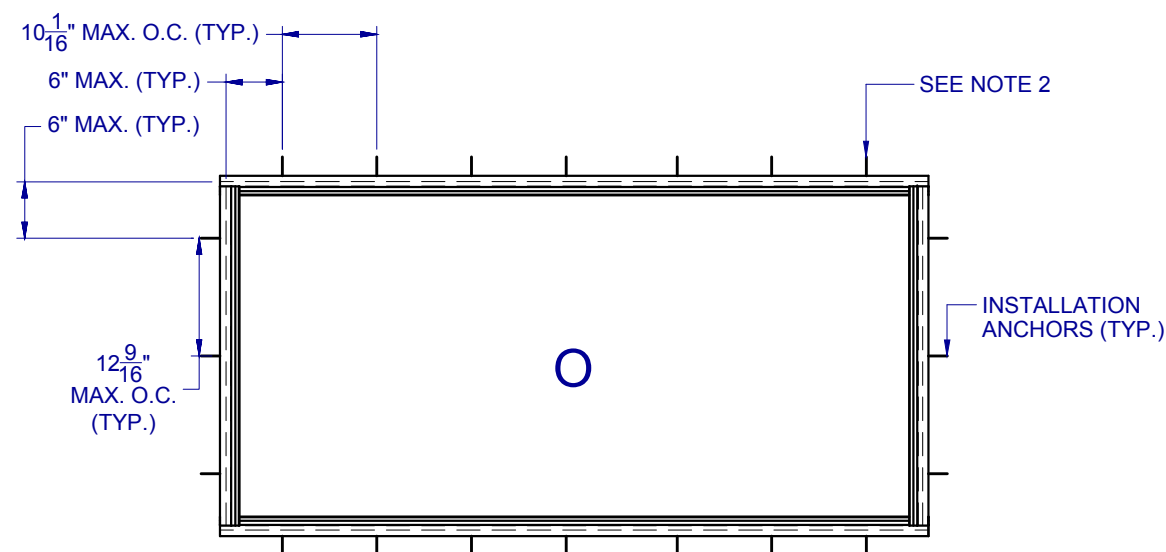
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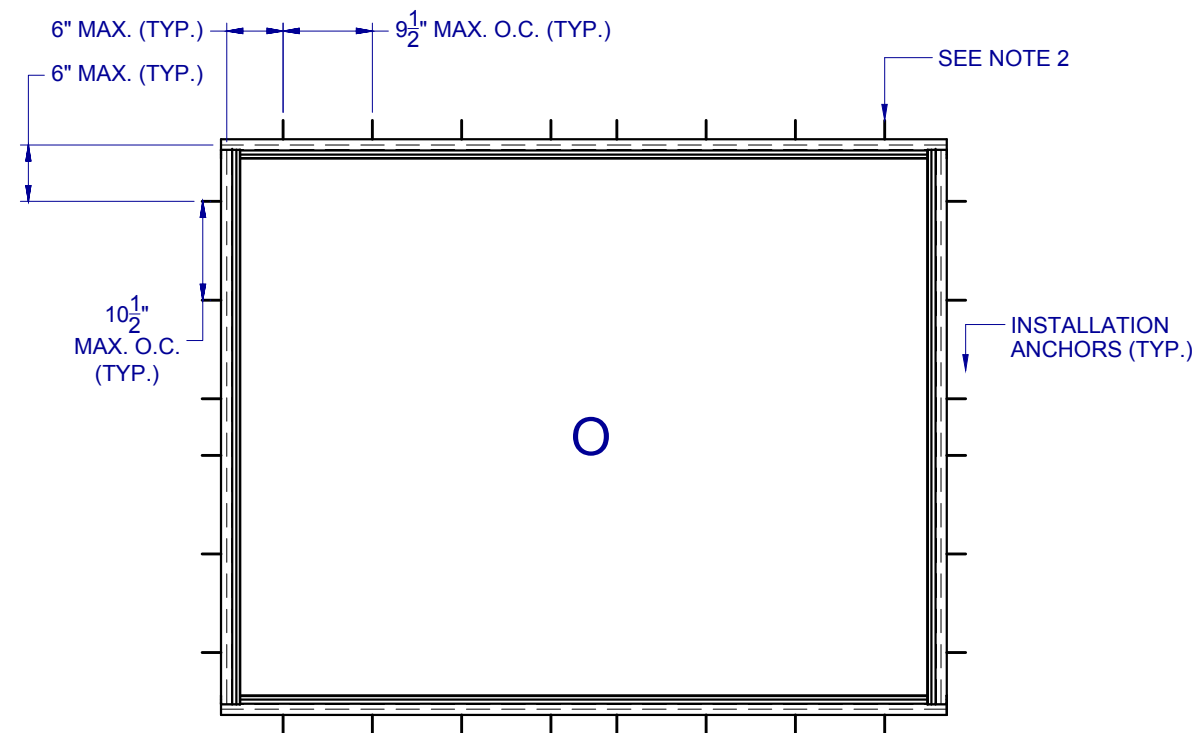
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**ANCHOR SCHEDULE AND NOTES**

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DWG #: <b>CWS-811</b>	REV.: <b>C</b>
SCALE: <b>1:20</b>	<b>SHEET 6 OF 7</b>



ANCHOR LAYOUT - (FLANGE)  
FOR UNITS RATED ±80 PSF



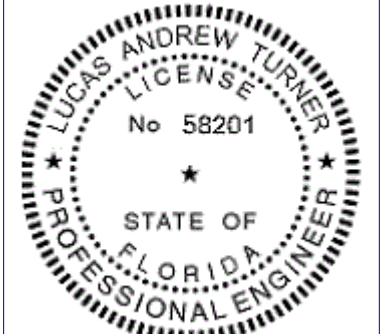
ANCHOR LAYOUT - (FLANGE)  
FOR UNITS RATED ±65 PSF

NOTES:

- INSTALL ONE ANCHOR AT EACH LOCATION. ANCHOR SPACING FOR FLANGE INSTALLATION APPLIES TO ALL SHAPES ALONG ALL FRAME EDGES. SILL ANCHOR SAME AS HEAD.
- SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
- ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 7.
- ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
- INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 7.
- ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND THE SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
- A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3-9/16" FOR MASONRY, 1" FOR WOOD AND METAL.
- WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 7. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
- SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

**3300 ALUM.  
PICTURE WINDOW  
IMPACT**

				08/09/16	DATE:
		BLZ	EMK	10/27/15	BY:
		ADDED IGU'S & SHAPES	EMK	03/14/15	DESCRIPTION:
		SERIES NAME CHANGE	EMK		NO.:
		UPDATED PER 2014 FBC	EMK		REVISIONS



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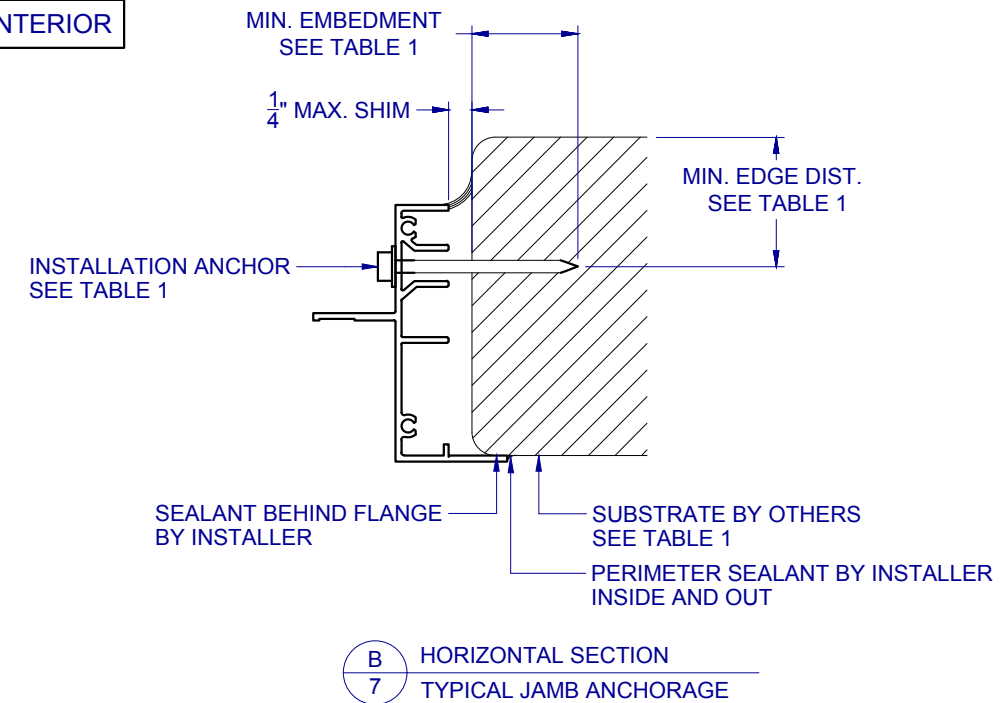
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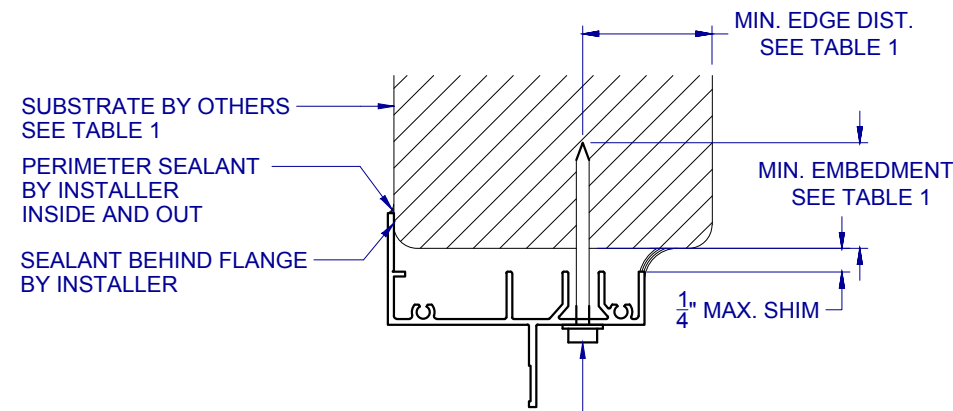
**INSTALLATION DETAILS**

DRAWN BY:	DATE:
ADE	07/12/12
DWG #:	REV.:
CWS-811	C
SCALE:	SHEET
1:2	7 OF 7

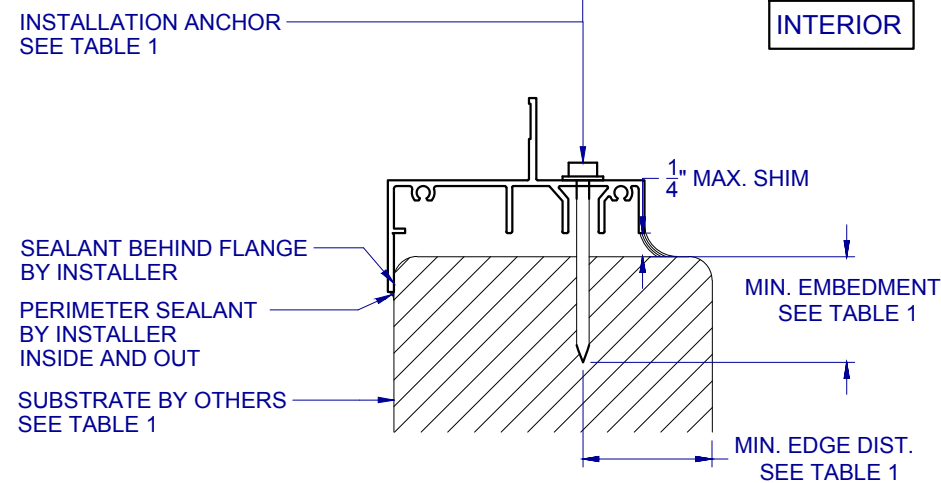
INTERIOR



TYPICAL HEAD ANCHORAGE



INTERIOR



(A) VERTICAL SECTION  
(7) TYPICAL SILL ANCHORAGE

TABLE 1: APPROVED INSTALLATION FASTENERS

SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DIST.
CONCRETE (2.0 KSI MIN.)	3/16" ITW TAPCON	1-1/2"	1-1/4"
HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.)	3/16" ITW TAPCON	1"	2"
CONCRETE (2.85 KSI MIN.)	3/16" ELCO ULTRACON	1"	1"
GROUT-FILLED CMU (ASTM C-90)	3/16" ELCO ULTRACON	1-3/4"	2-1/2"
2X MIN. SOUTHERN PINE (G=0.55)	3/16" ITW TAPCON OR ELCO ULTRACON	1-3/8"	7/8"
2X MIN. SOUTHERN PINE (G=0.55)	#10 WOOD SCREW	1-3/8"	7/8"
16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN)	#10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW	FULL THREAD THRU 0.060"	7/16"
1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.)	#10 GRADE 5 SELF-TAPPING / DRILLING SCREW	FULL THREAD THRU 0.125"	7/16"