

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

CORNER CONSTRUCTION:

HEAD FRAME: MEMBERS ARE COPED, BUTTED AND JOINED WITH (3)THREE NO. 8 X 2 1/2" WOOD SCREWS THROUGH THE VERTICAL FRAME MEMBERS INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH SEALANT.

SILL FRAME: MEMBERS ARE COPED, BUTTED AND JOINED WITH (3)THREE NO. 8 X 2 1/2" & (1)ONE NO. 6 X 1 1/2" WOOD SCREWS THROUGH THE VERTICAL FRAME MEMBERS INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH SEALANT.

TOP RAIL TO STILE: MEMBERS ARE SQUARE CUT, BUTTED AND JOINED WITH (2)TWO #5/8" X 5" DOWELS. CORNERS ARE SEALED WITH SEALANT.

BOTTOM RAIL TO STILE: MEMBERS ARE SQUARE CUT, BUTTED AND JOINED WITH (4)FOUR #5/8" X 5" DOWELS. CORNERS ARE SEALED WITH SEALANT.

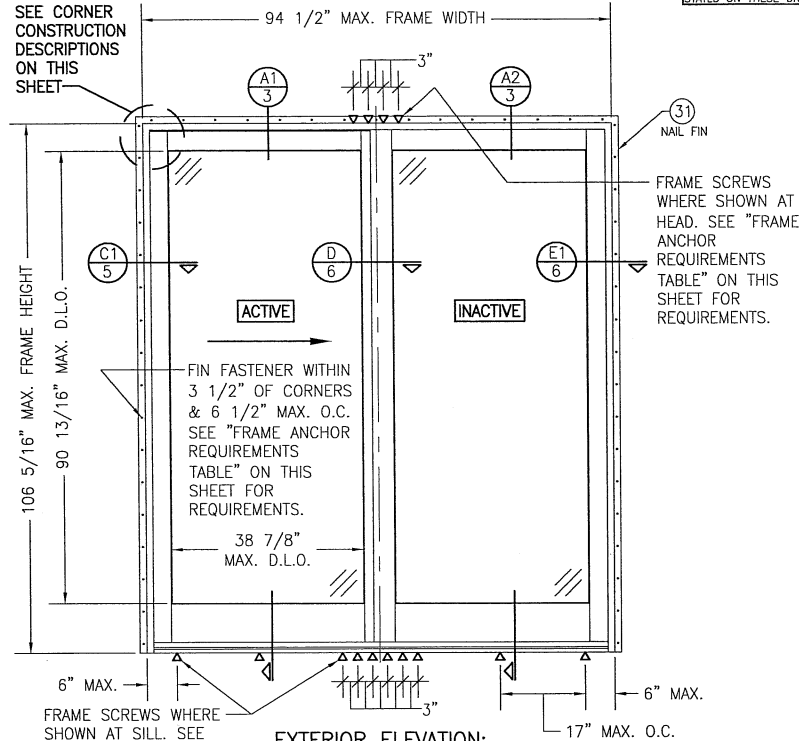
FRAME CLAD: MEMBERS ARE MITERED TOGETHER & JOINED VIA A CORNER KEY (ITEM #36) & WITH (1)ONE NO. 6 X 1 1/2" SMS SCREW PER HEAD CORNER & (1)ONE NO. 6 X 3/4 SMS SCREW PER SILL CORNER. CORNERS ARE SEALED WITH A CLOSED CELL FOAM GASKET & SEALANT.

PANEL CLAD: MEMBERS ARE COPED TOGETHER & SECURED TO THE SASH. CORNERS ARE SEALED WITH SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/NAIL FIN/BRICK MOLD TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
NAILING FIN & BRICK MOLD FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).



EXTERIOR ELEVATION:
2-PANEL DOOR

SCALE: 1/2" = 1'-0"

(NAIL FIN MOUNT CONDITION)

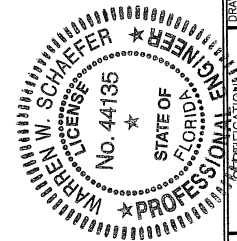
(XO CONDITION SHOWN, OX CONDITION ALSO APPLIES)

ALLOWABLE DESIGN
PRESSURE

MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)
94 1/2	43.0
72 1/2	55.0

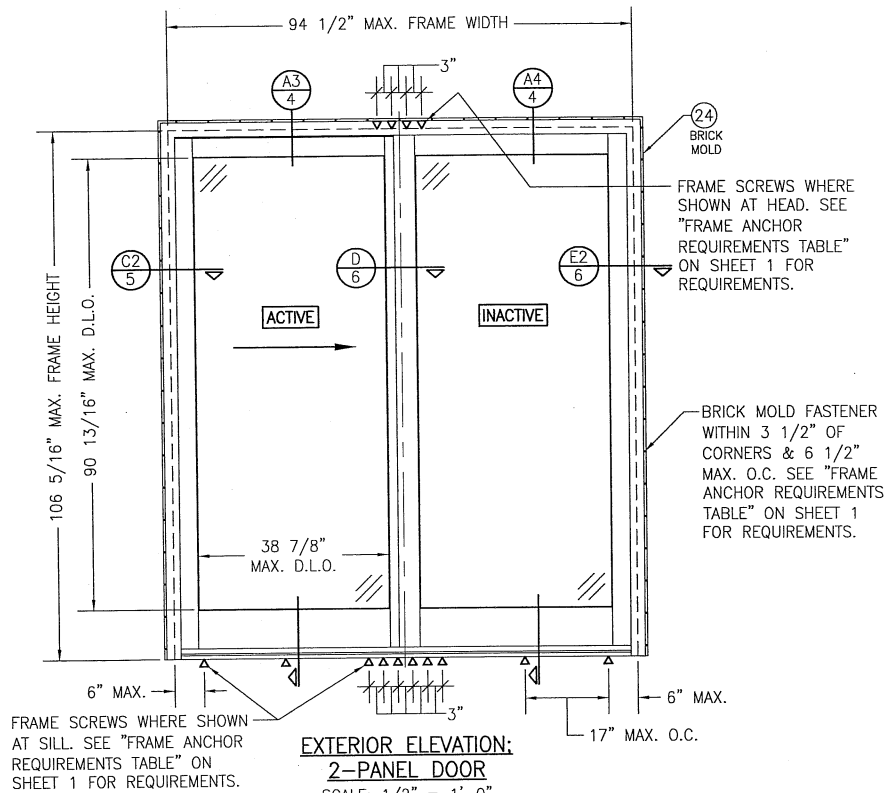
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED, THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 05/20/09	
NO.	REVISION DESCRIPTION	DATE	BY
A1	UPDATE TO CURRENT STANDARDS	06/17/11	W.R.M.
B1	UPDATE CLIENT ADDRESS	12/17/12	W.R.M.
C1	UPDATE TO CURRENT STANDARDS	07/09/13	W.W.S.
D1	CHANGED CORNER SEALANT	06/17/17	W.W.S.
DRAWING TITLE: ALUMINUM CLAD WOOD PATIO SLIDING GLASS DOOR			
MANUFACTURER: C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE 561-744-3424			
DRAWING NO. 1650			
SHEET NO. 1 OF 8			
REV. D			



AUG 17 2017

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135



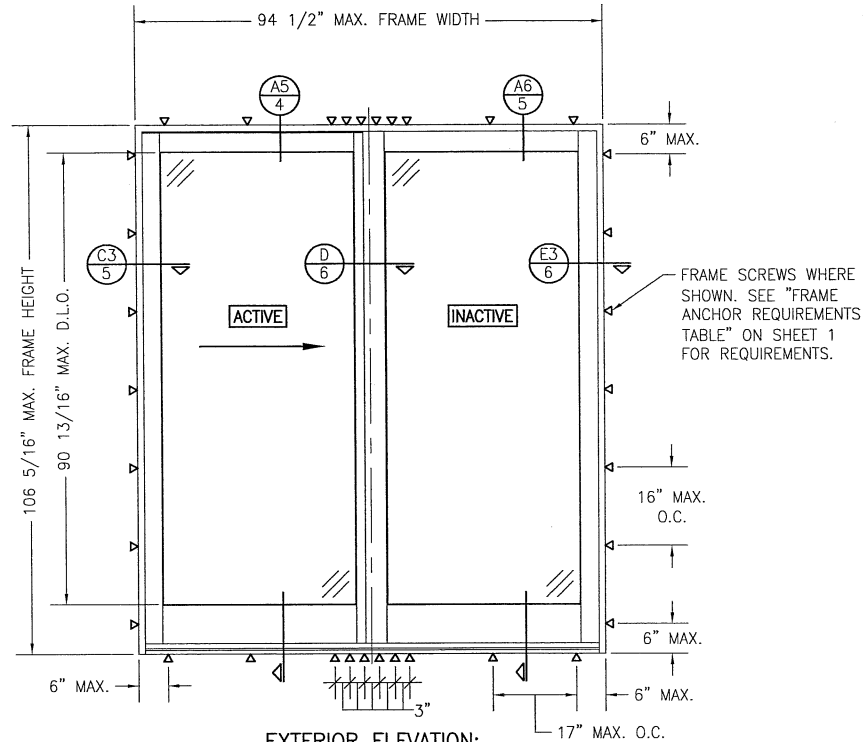
**EXTERIOR ELEVATION:
2-PANEL DOOR**

SCALE: 1/2" = 1'-0"

(BRICK MOLD MOUNT CONDITION)

(XO CONDITION SHOWN, OX CONDITION ALSO APPLIES)

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 1

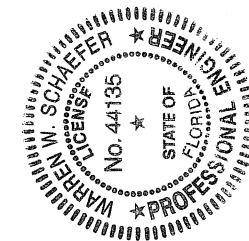


**EXTERIOR ELEVATION:
2-PANEL DOOR**

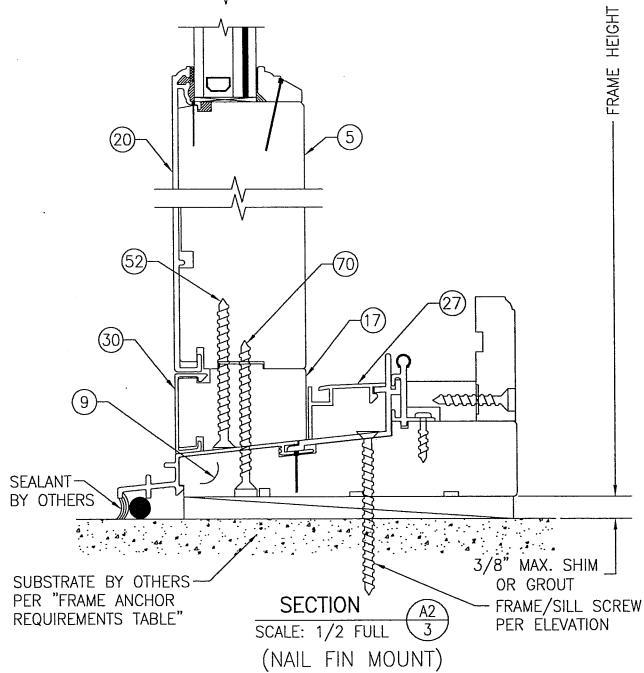
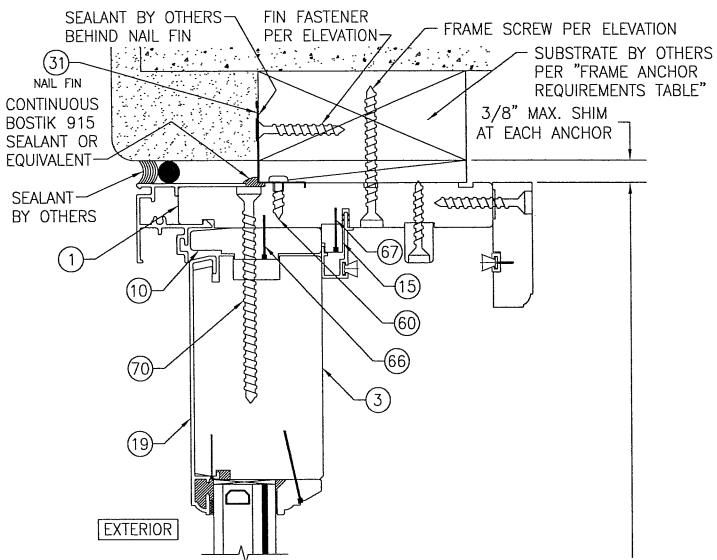
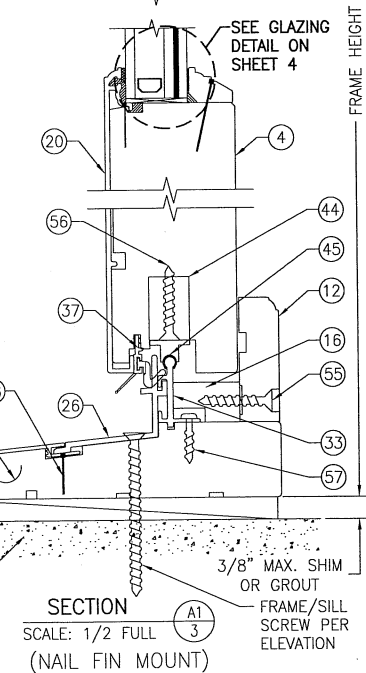
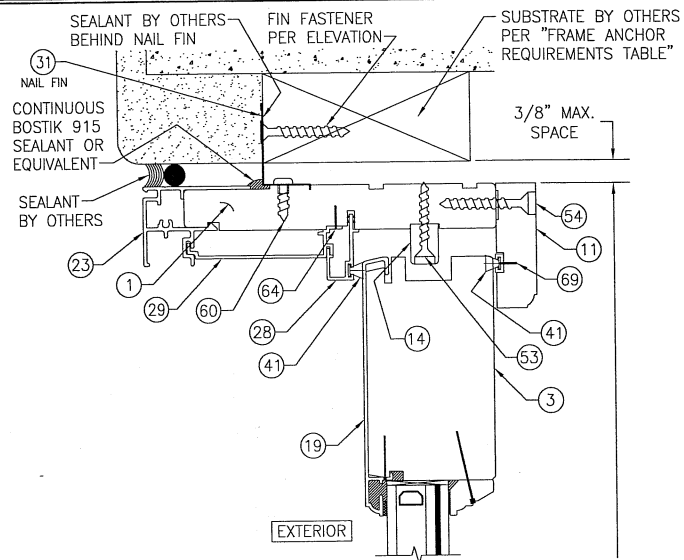
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(FRAME SCREW MOUNT CONDITION)

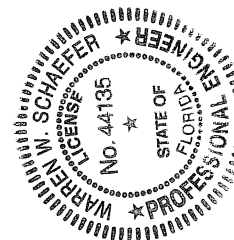
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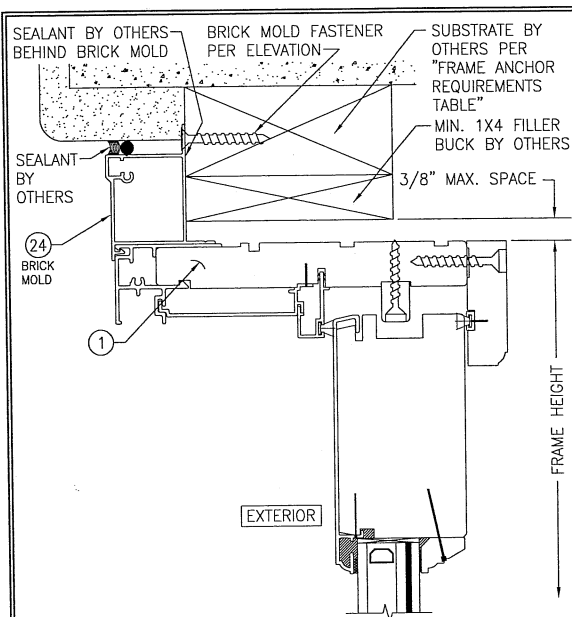
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLT: 1-24	DATE: 05/20/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD PATIO SLIDING GLASS DOOR	
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	AUG 17 2017
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1650	REV. D
SHEET NO. 2	OF 8



(FOR DETAIL NOT SHOWN SEE SECTION A1/4)



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLT: 1-2	DATE: 05/20/09
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE ALUMINUM CLAD WOOD PATIO SLIDING GLASS DOOR	
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION AUG 17 2017	REV. D
DRAWING NO. 1650	SHEET NO. 3 OF 8

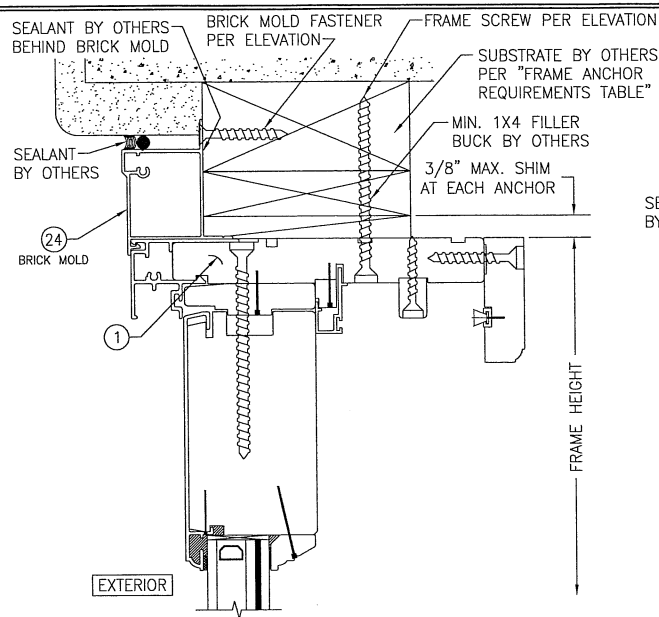


SECTION

SCALE: 1/2 FULL

(BRICK MOLD MOUNT)

(FOR DETAIL & SILL SECTION NOT SHOWN, SEE SECTION A1/3)

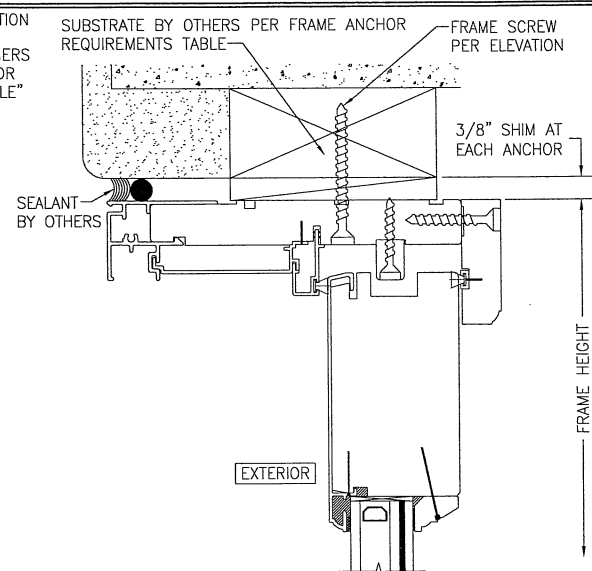


SECTION

SCALE: 1/2 FULL

(BRICK MOLD MOUNT)

(FOR DETAIL & SILL SECTION NOT SHOWN, SEE SECTION A2/3)

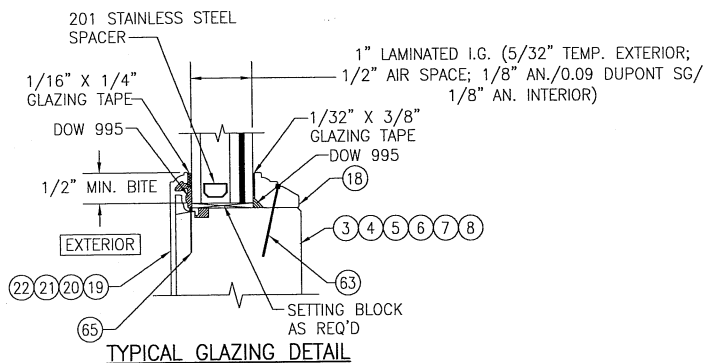


SECTION

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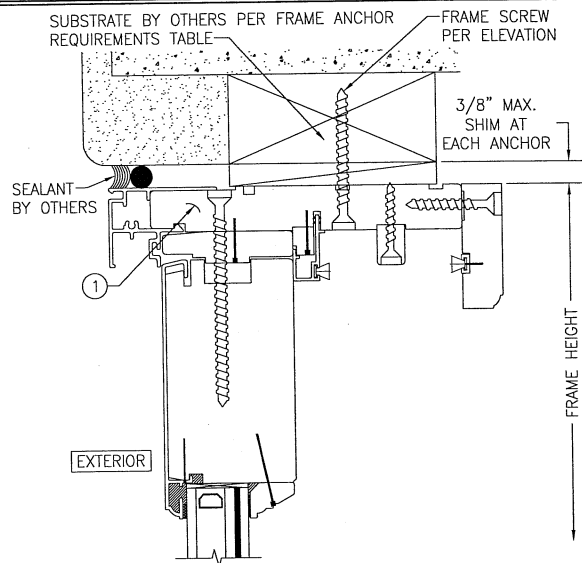
(FRAME SCREW MOUNT)

(FOR DETAIL & SILL SECTION NOT SHOWN, SEE SECTION A1/3)



TYPICAL GLAZING DETAIL

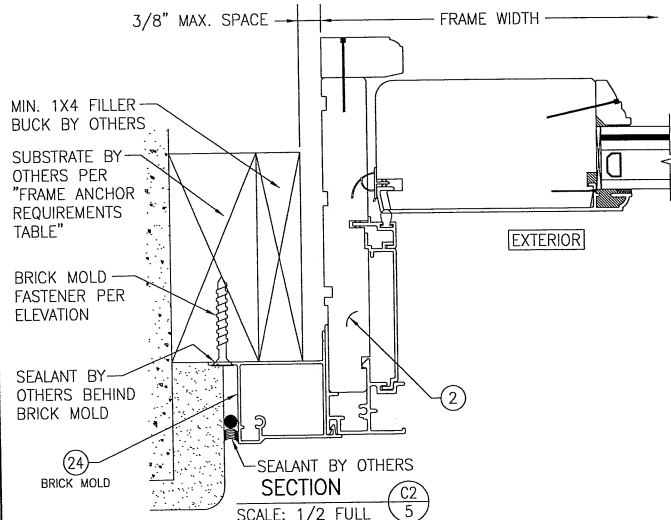
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PLOT: 1=2		DATE: 05/20/09	
NO.	REVISION	DESCRIPTION	DATE
1			
DRAWING TITLE: ALUMINUM CLAD WOOD PATIO SLIDING GLASS DOOR			
MANUFACTURER: C.P. LOEWEN ENTERPRISES			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
CERTIFICATION: WARREN W. SCHAEFER, P.E. No. 44135			
DRAWING NO. 1650			
SHEET NO. 4 OF 8			



SECTION A6
SCALE: 1/2 FULL 5

(FRAME SCREW MOUNT)

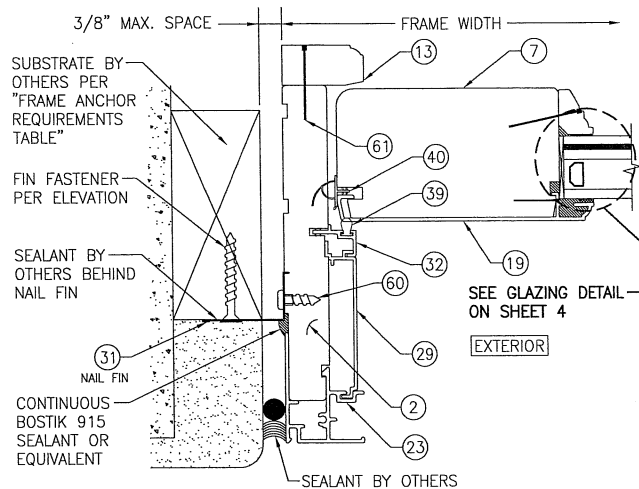
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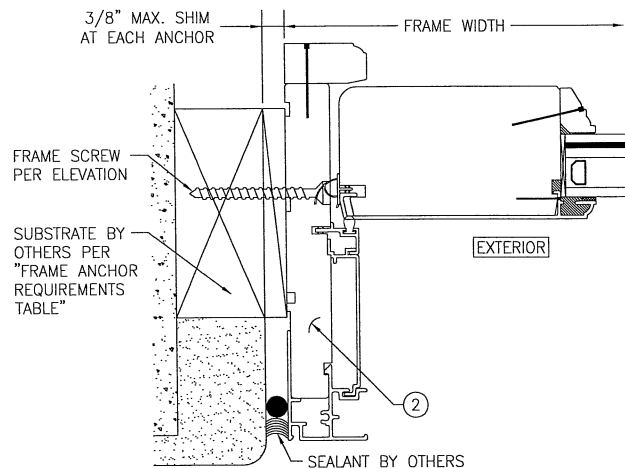
SECTION C2
SCALE: 1/2 FULL 5

(BRICK MOLD MOUNT)

(FOR DETAIL NOT SHOWN, SEE SECTION C1/5)



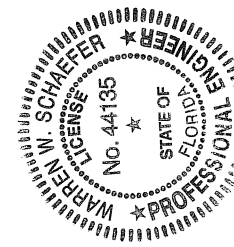
SECTION C1
SCALE: 1/2 FULL 5
(NAIL FIN MOUNT)



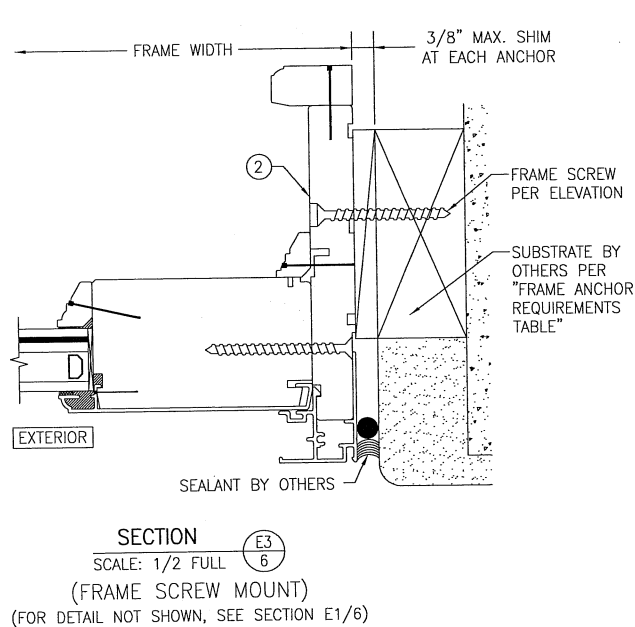
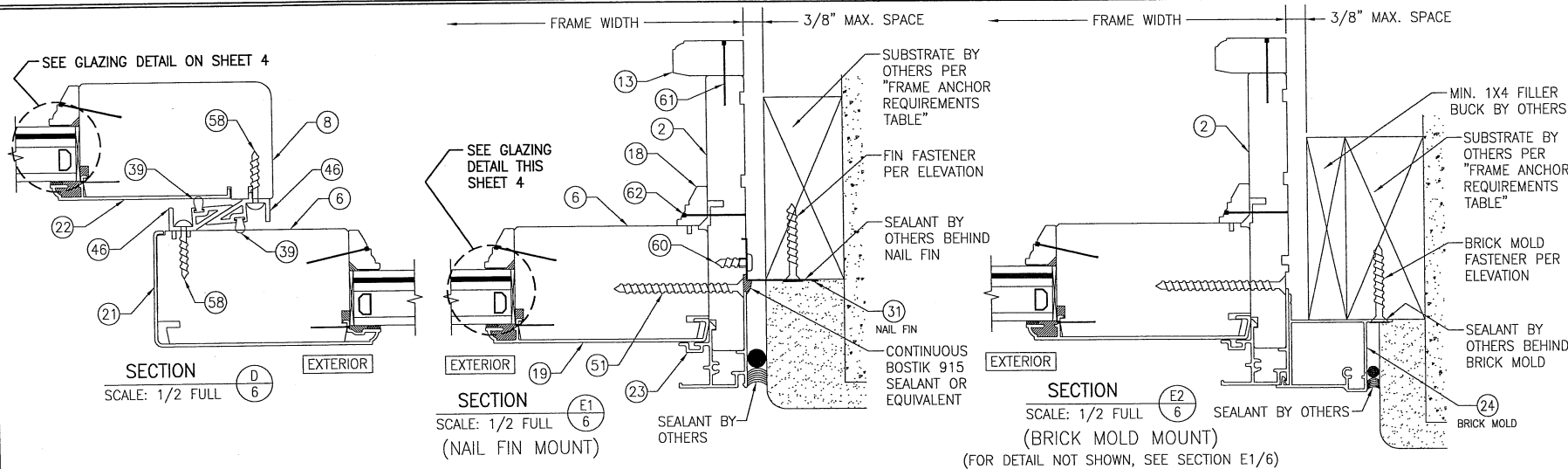
SECTION C3
SCALE: 1/2 FULL 5

(FRAME SCREW MOUNT)

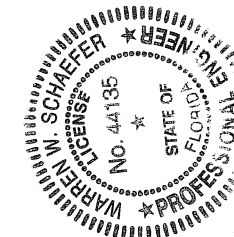
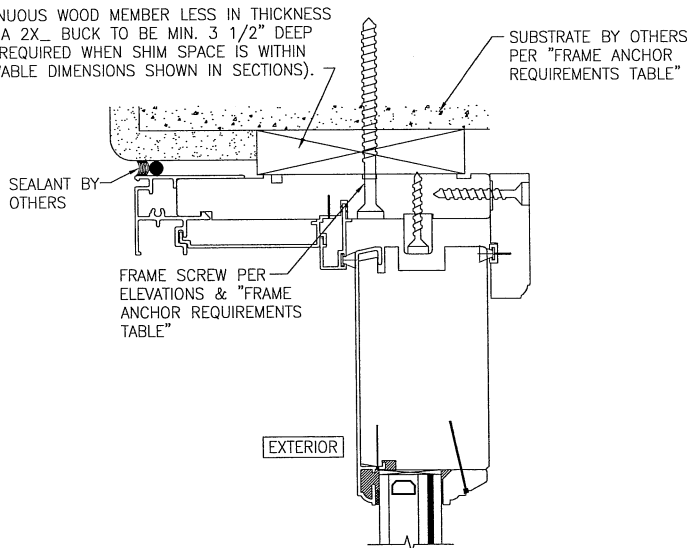
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PLOT: 1-2	DATE: 05/20/09
DATE	BY
REVISION DESCRIPTION	NO.
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MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION AUG 17 2017 WARREN W. SCHAEFER, P.E. E. NO. 44135	
DRAWING NO. 1650	REV. D
SHEET NO. 5	OF 8



CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



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PLOT: 1-2	DATE: 05/20/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD PATIO SLIDING GLASS DOOR	
MANUFACTURER C.P. LOEWEN ENTERPRISES 77 HWY 52 WEST STEINBACH, MB, CANADA R5G 1B2 204-326-6446	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424	
CERTIFICATION WARREN W. SCHAEFER P.E. NO. 44135	
DRAWING NO. 1650	REV. D
SHEET NO. 6	OF 8

