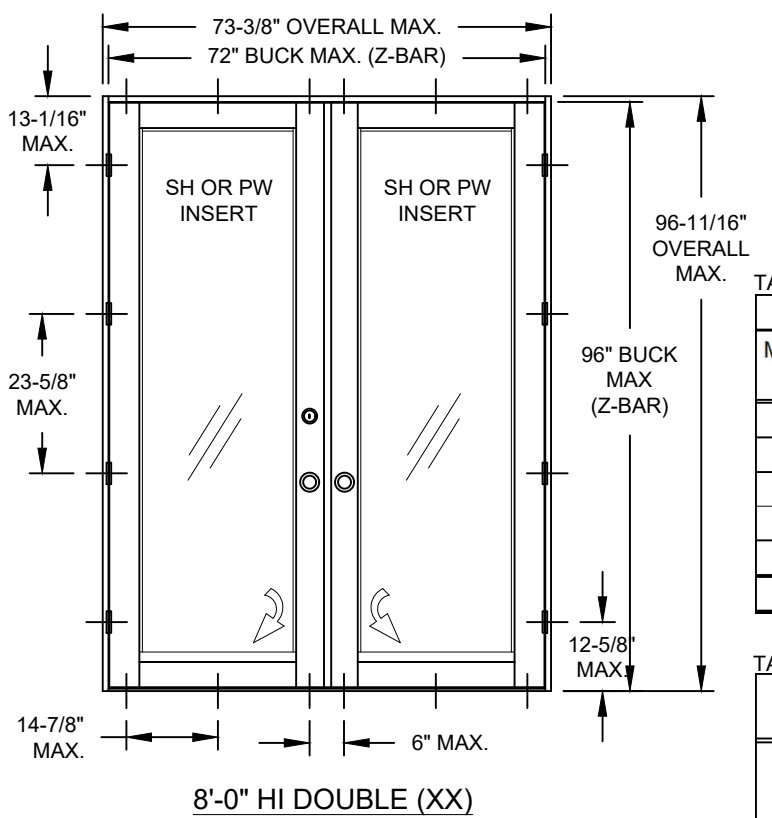
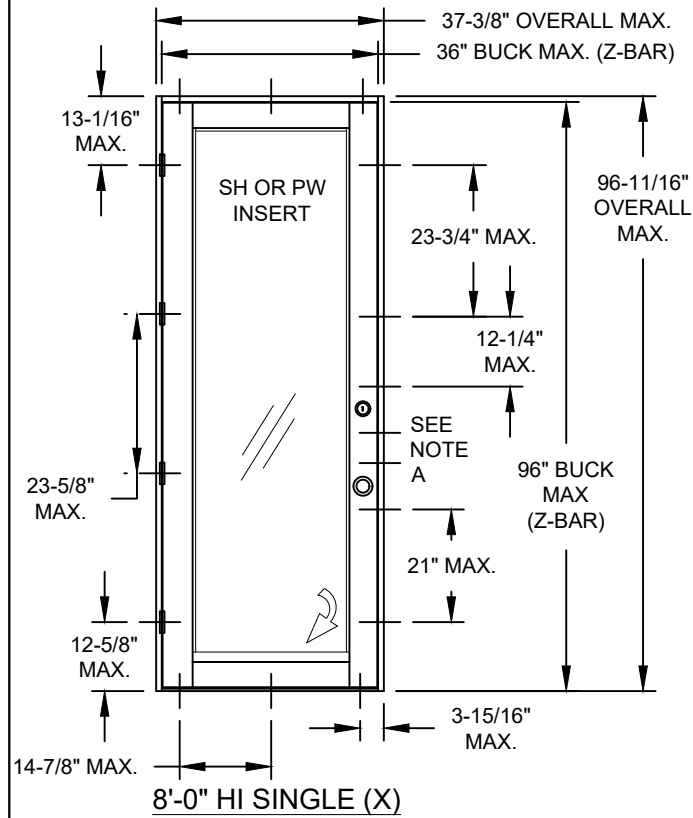
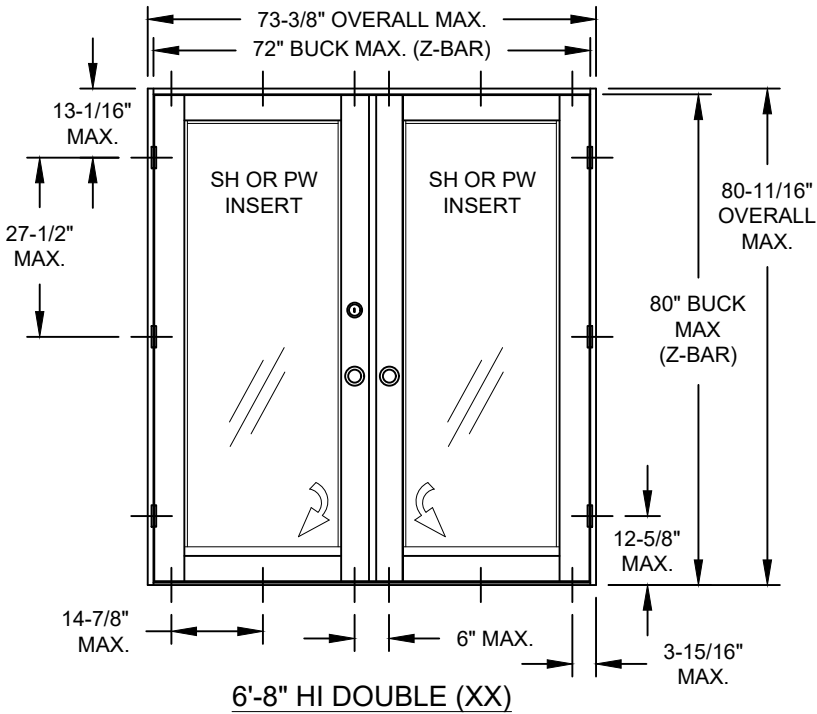
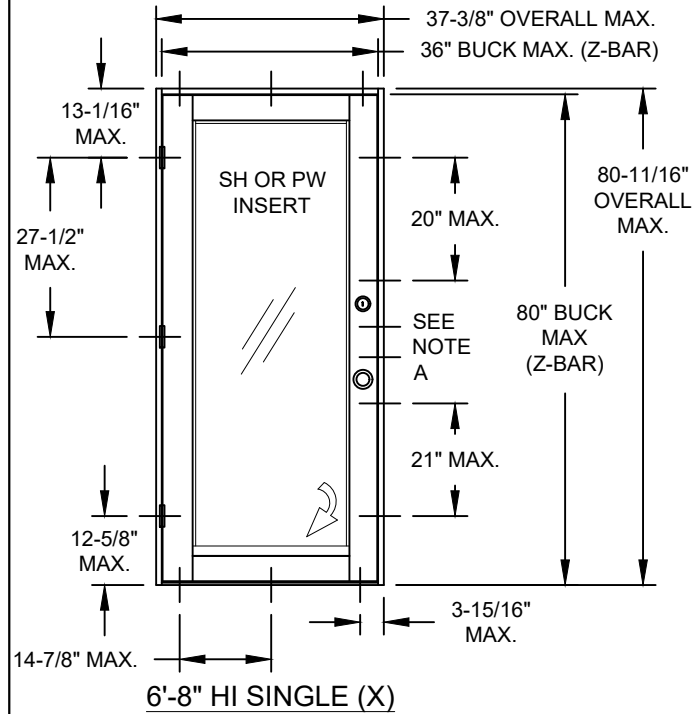


IMPACT RATING	DESIGN PRESSURE RATING
NON-IMPACT RESISTANT	+65.0/-70.0 PSF



ANCHOR LOCATIONS & SPACING

NOTE A :
ANCHORS ARE REQUIRED WITHIN 3" OF THE CENTERLINE OF THE HANDLE AND/OR DEADBOLT.

GENERAL NOTES :

- 1) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR THE DESIGN PRESSURES LISTED.
- 2) WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. ATTACHMENT METHOD OF WOOD BUCKS SHALL BE DONE BY OTHERS.
- 3) SEE TABLE FOR MINIMUM EDGE DISTANCE FROM CENTER OF ANCHOR TO SUBSTRATE EDGE (EXCLUDING FINISH OR STUCCO).
- 4) SHIM EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE, USING SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.
- 5) ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS APPROPRIATE FOR SUBSTRATE MATERIAL. DISSIMILAR MATERIALS SHALL BE PROTECTED AS REQUIRED TO PREVENT REACTIONS. ALUMINUM SHALL BE PROTECTED FROM DISSIMILAR MATERIALS AS SPECIFIED IN THE FLORIDA BUILDING CODE.
- 6) ADHESIVE SEALANT SHALL BE USED BETWEEN SUBSTRATE AND FLANGE OR FIN. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS.
- 7) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, 2.7 KSI CONCRETE AND CONCRETE MASONRY UNITS COMPLYING WITH ASTM C-90. GLAZING COMPLIES WITH ASTM E1300.
- 8) THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF WOOD SCREWS.
- 9) IF THE EXACT PRODUCT SIZE IS NOT LISTED IN THE TABLES, ALWAYS ROUND UP TO THE NEXT LARGER VALUE.

TABLE 1:

As-Tested Configurations							
Max. Nom. Size (in)	Configuration	Swing Direction	Frame Type	Sill Type	DP (PSF)	Certification Number	Glass
36x80	Single (X)	Out-swing	Z-bar/Box	High (bumper)	+/- 50	190-789, 791	Min. 1/8" Temp., Mono. or I.G.
36x96	Single (X)	Out-swing	Z-bar/Box	Medium (bumper)	+/- 35	190-792	
72x96	Double (XX)	Out-swing	Z-bar/Box	Medium (bumper)	+/- 35	190-792	
36x96	Single (X)	Out/In-swing	Z-bar/Box	Low (saddle)	+/- 35*	793, 794	
72x96	Double (XX)	Out/In-swing	Z-bar/Box	Low (saddle)	+/- 35*	793, 794	
*Limited Water (Water Infiltration Tested at 0 psf).							

TABLE 2:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 Steel SMS (G5) #12 410 S.S. SMS #12 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Aluminum, 6063-T5*	3/8"	0.045" (18 Ga)
	Steel, A36*	3/8"	0.045" (18 Ga)
	Steel Stud, A653 Gr. 33*	3/8"	0.045" (18 Ga)
1/4" DeWalt Ultracon+	Concrete (min. 3.00 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
1/4" Elco 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	1-3/4"	1"
	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
- 2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

Revision:
E) REMOVE 1/4 ULTRACON

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REGISTRATION #29296

09/30/11

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DWG

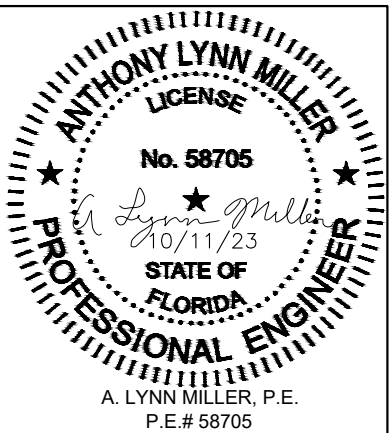
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Sheet

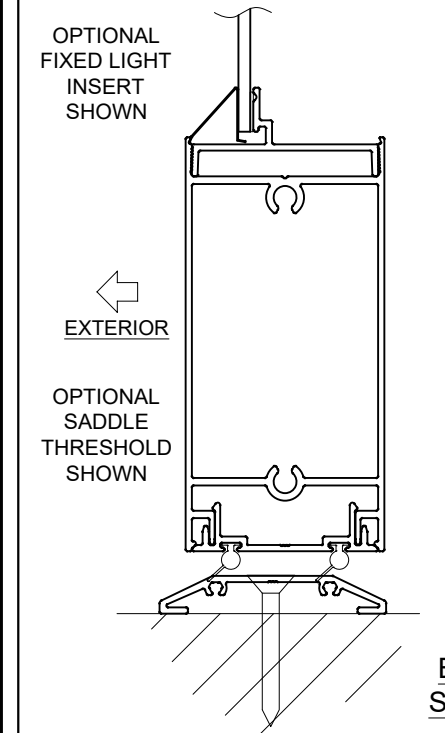
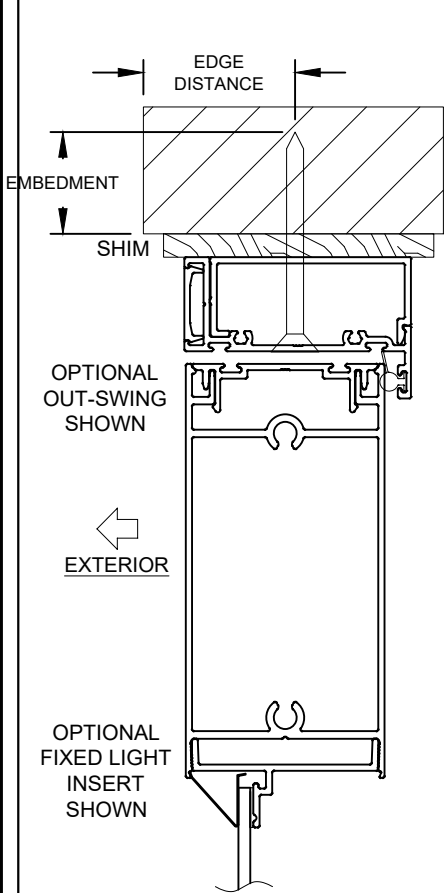
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ELEVATION & GENERAL NOTES.

CABANA DOOR (NI)



BOX FRAME,
HEAD INSTALLATION
(DIRECTLY TO SUBSTRATE)



BOX FRAME,
HEAD INSTALLATION
(USING 1X WOODBUCK)

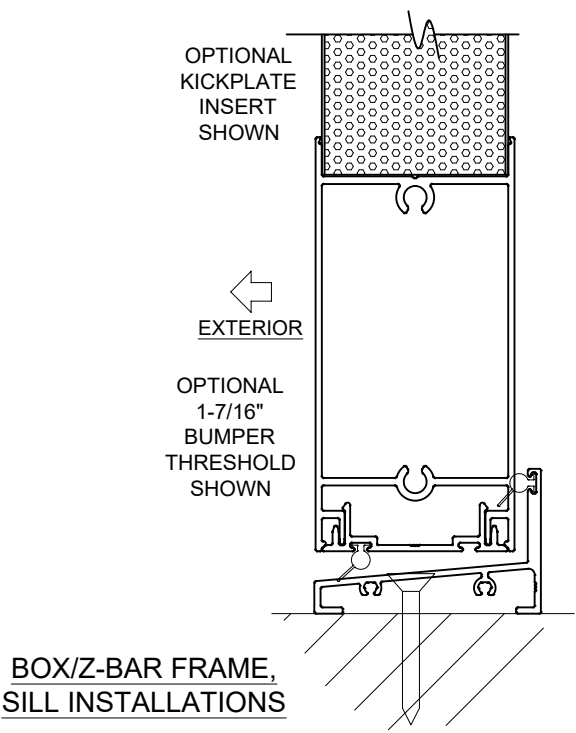
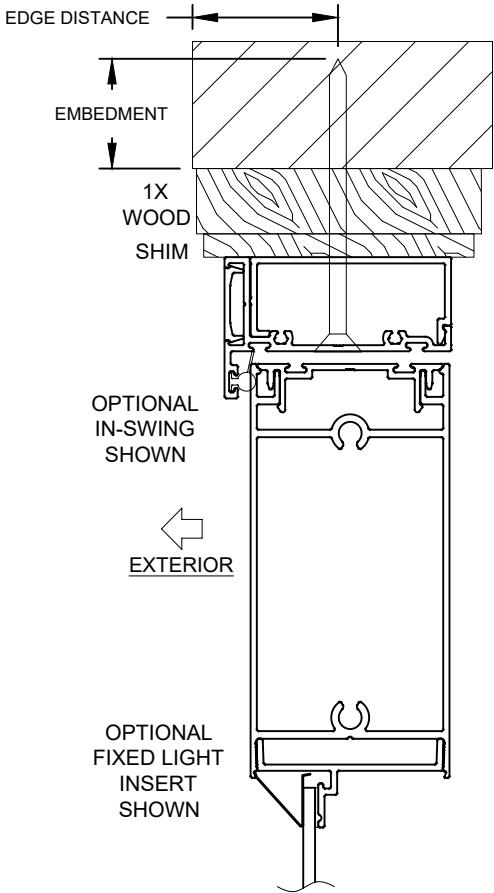
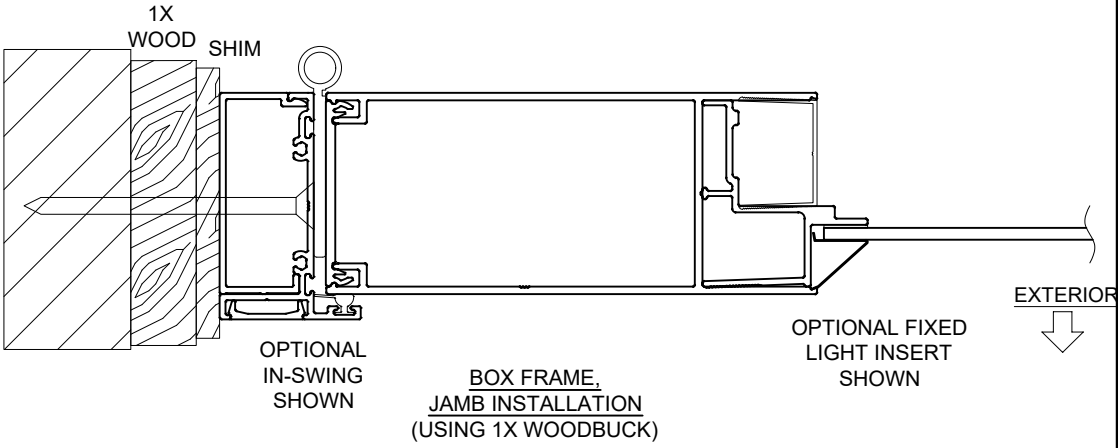
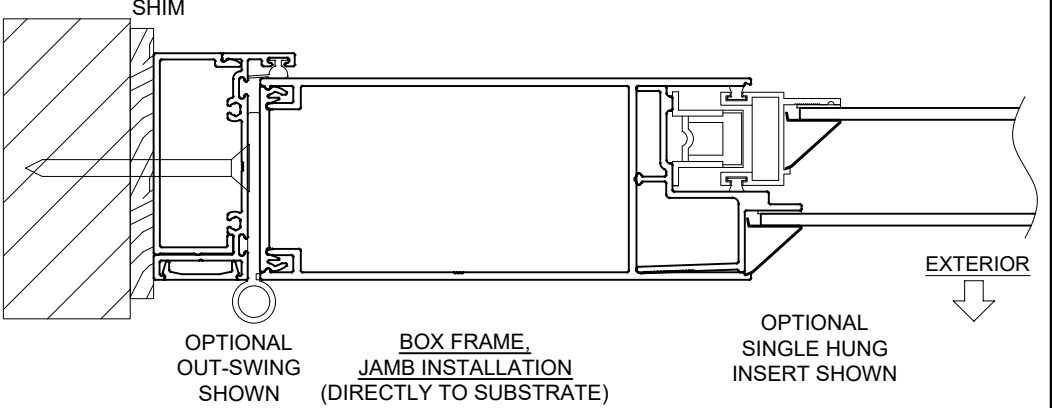


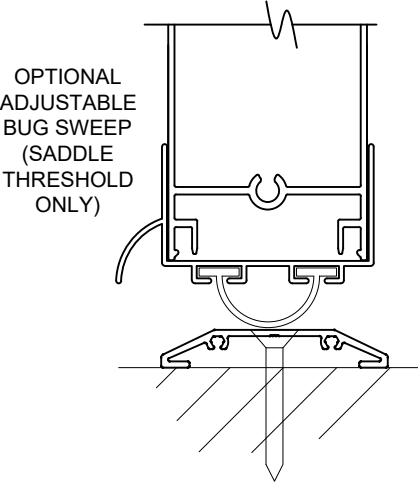
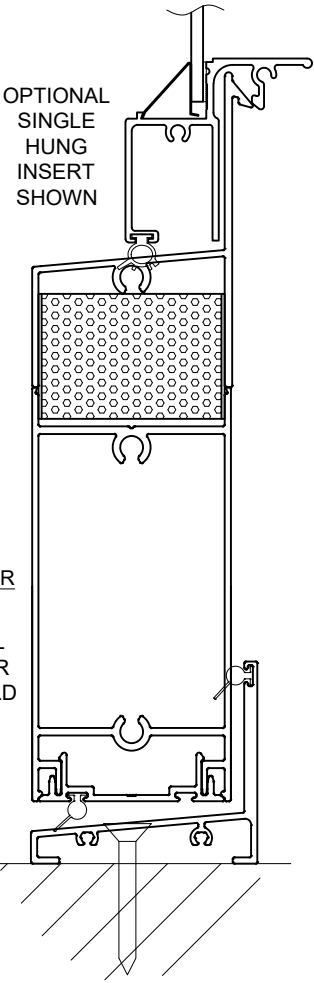
TABLE 3: HARDWARE (ALL FRAME TYPES)

Part #	Description
7CDSP	Lock Strike Plate
6FLATM	Striker Backing Plate
7CDSPDB	Deadbolt Strike Plate
78516XS	#8-32 x .375 Ph. Fl. S.S.
4UBLOK	Lock Support Assy.
7634FW	#6 x .750 Ph. Fl. SMS
7CDSP	Lock Strike Plate (Active Slab)
6FLATM	Striker Backing Plate (Active Slab)
7CDSPDB	Deadbolt Strike Plate (Active Slab)
78516XS	#8-32 x .375 Ph. Fl. S.S. (Active Slab)
6CDRIMW	Rim Foam Insert - 3 3/8"
7DEAD	Deadbolt/Knob (Active)
7KNOBQ	Knob Set (Inactive)
7CDKLOKB	Deadbolt/Knob - Polished Brass (Active)
7DBLKB	Double Lockset
69333W	Hinge
41704	Hinge Pin Cap
41705	Hinge Pin Bushing
7XXXOM	Hinge Pin
7VT45	Hinge Rivet
7834FPTW	#8 x .750 Ph. Fl. TEK SMS



INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) FOR HARDWARE DETAILS, SEE TABLE 3.



Revision:
E) NO CHANGES IN THIS SHEET.

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ANTHONY LYNN MILLER

LICENSE

No. 58705

10/11/23

STATE OF FLORIDA

PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.

P.E.# 58705

By
A. MORLESIN

Date
09/30/11

Registration #29296

CD290-FPA

CD290

2 OF 3

CD290

ANTHONY LYNN MILLER

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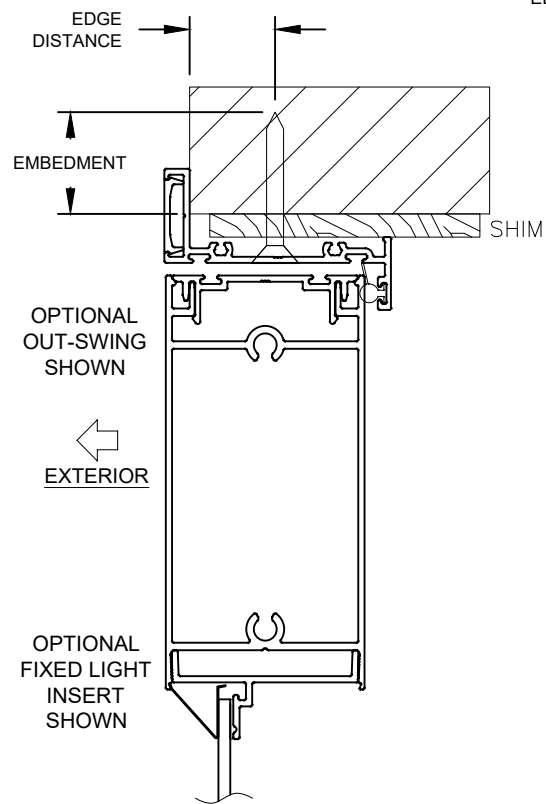
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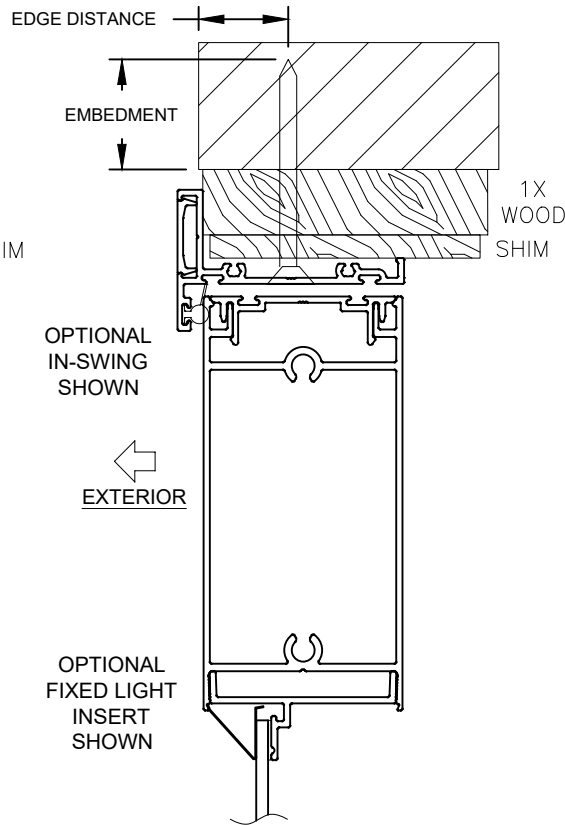
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CD290

Z-BAR FRAME,
HEAD INSTALLATION
(DIRECTLY TO SUBSTRATE)



Z-BAR FRAME,
HEAD INSTALLATION
(USING 1X WOODBUCK)



OPTIONAL
FIXED LIGHT
INSERT
SHOWN

EXTERIOR

OPTIONAL
SADDLE
THRESHOLD
SHOWN

OPTIONAL
KICKPLATE
INSERT
SHOWN

EXTERIOR

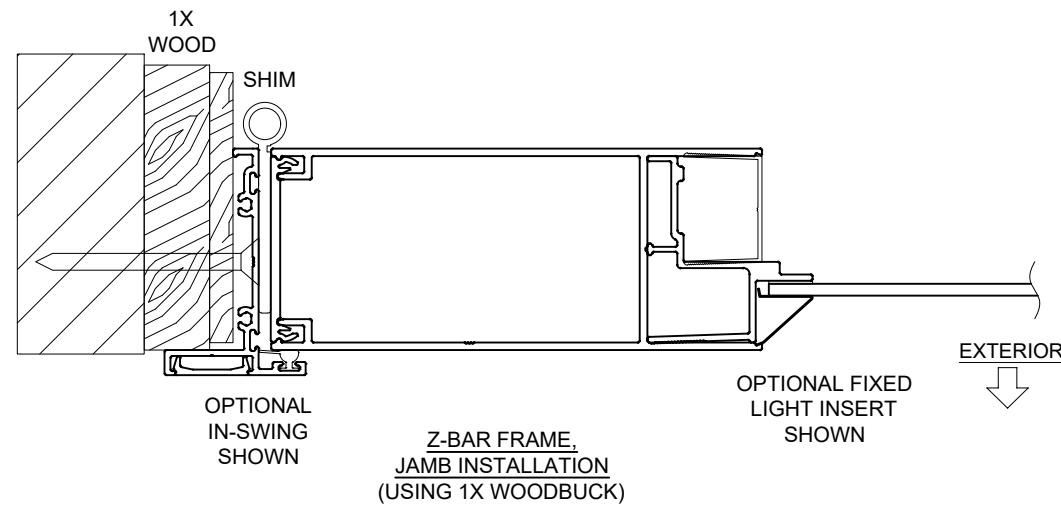
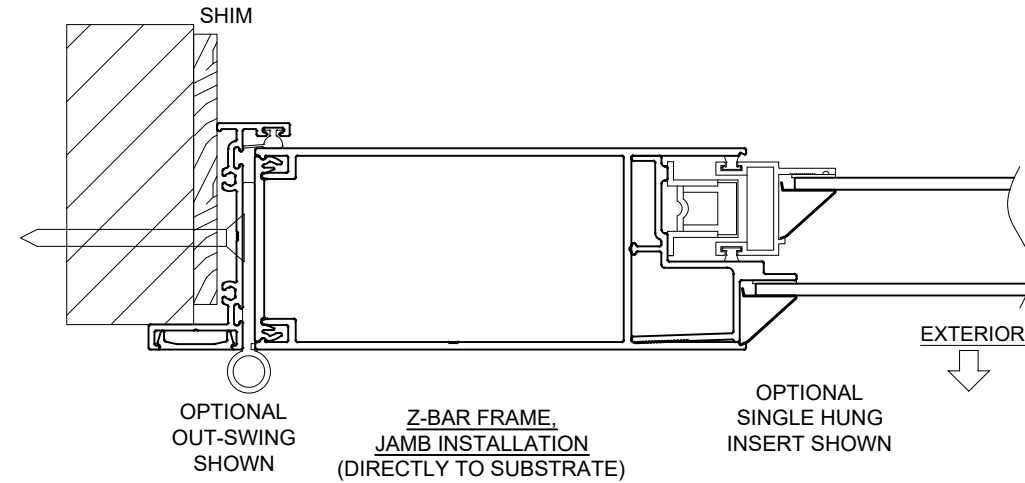
OPTIONAL
1-7/16"
BUMPER
THRESHOLD
SHOWN

OPTIONAL
SINGLE
HUNG
INSERT
SHOWN

EXTERIOR

OPTIONAL
2" BUMPER
THRESHOLD
SHOWN

BOX/Z-BAR FRAME,
SILL INSTALLATIONS



INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) FOR HARDWARE DETAILS, SEE TABLE 3.

OPTIONAL
ADJUSTABLE
BUG SWEEP
(SADDLE
THRESHOLD
ONLY)

Revision:
E) NO CHANGES IN
THIS SHEET.

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		CABANA DOOR (NI)		Z BAR INSTALLATION		3 OF 3	CD290		
		PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		Sheet		Title			

