

SERIES CD4090A, NON-IMPACT, ALUMINUM
CABANA DOOR, X & XX

- 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.
- 10) THE CD-4090A CABANA DOOR MAY ALSO BE KNOWN AS THE CD-290 SERIES.

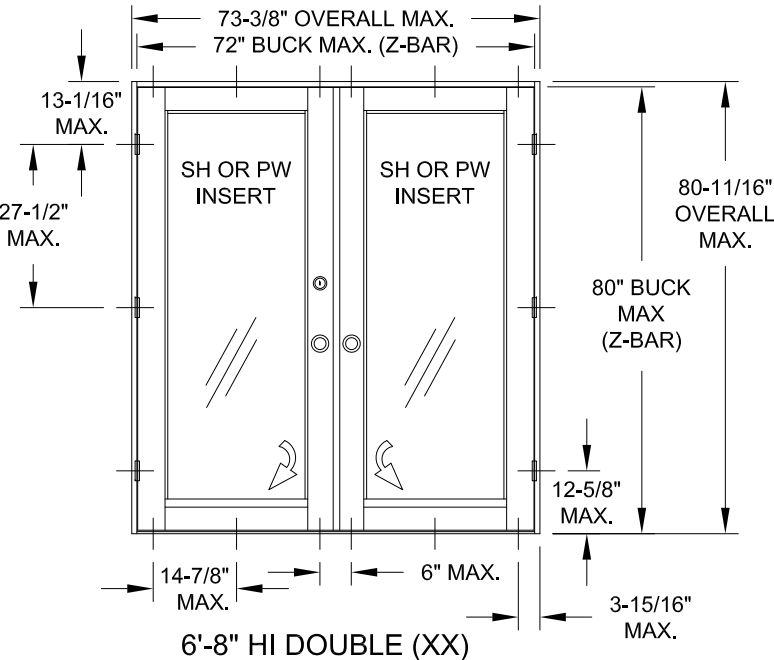
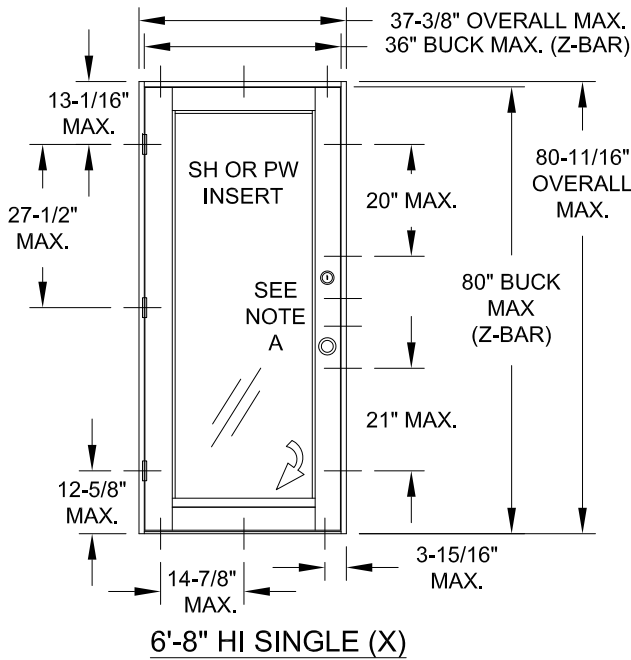
TABLE 1:

Anchor Type	Substrate	Min. Edge Dist.	Min. Embedment
#12 Steel SMS	Wood (Southern Pine)	9/16"	1-3/8"
	Steel Stud Gr 33	3/8"	.045 (18 GA)
	Aluminum-6063-T5	3/8"	1/8"
	Steel, A36	3/8"	1/8"
1/4" Ultracon or Ultracon+	Concrete	1"	1-3/8"
	Hollow CMU	2-1/2"	1-1/4"

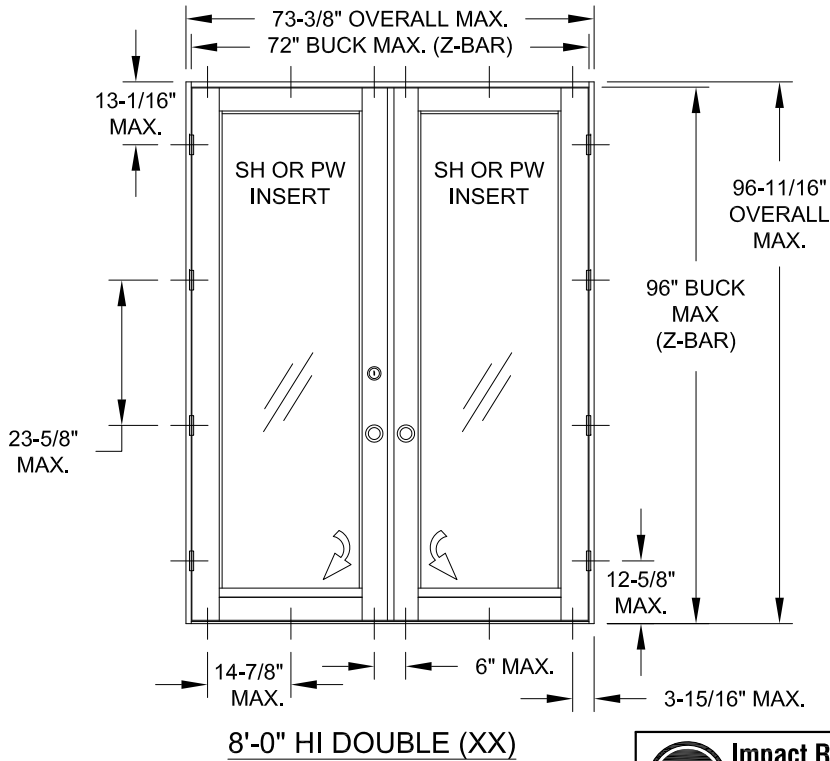
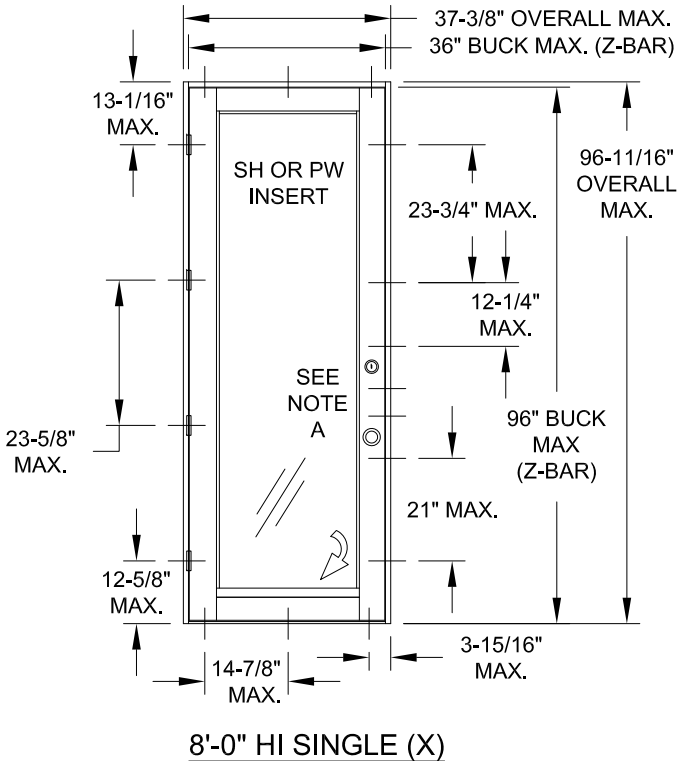
NOTE: FOR ALL METAL SUBSTRATES, SCREW EMBEDMENT SHALL BE MIN. 3 THREADS BEYOND INSIDE FACE OF MATERIAL.

TABLE 2:

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



ANCHOR LOCATIONS & SPACING



IMPACT RATING
NON-IMPACT RESISTANT
DESIGN PRESSURE RATING
SEE TABLE 2

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

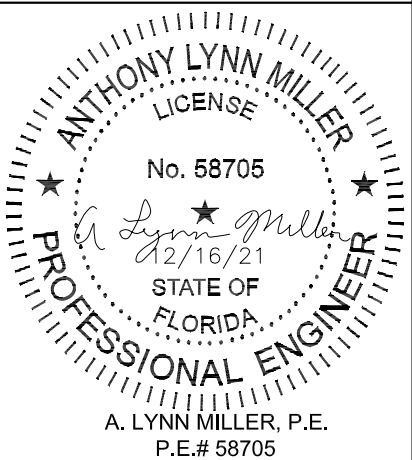
Title: ALUM. CABANA DOOR, X & XX (NI)			Drawn By: JENS ROSOWSKI		
Description: GENERAL NOTES & DESIGN PRESSURES				Date: 03/24/21	
Revision: ADDED ULTRACON+ ANCHORS			Rev. By: JR	Rev. Date: 09/08/20	
Series/Model: CD4090A	Scale: NTS	Sheet: 1 OF 3	Drawing No. CD4090FPA	Rev: A1	

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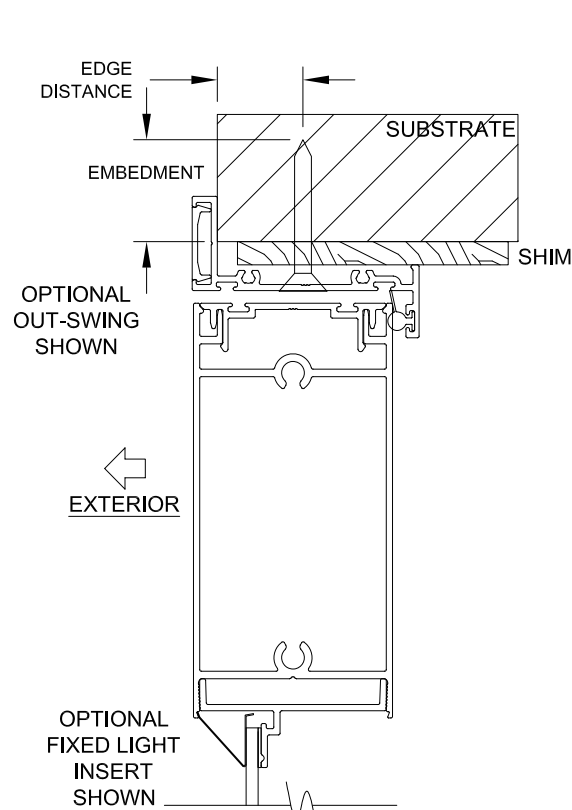
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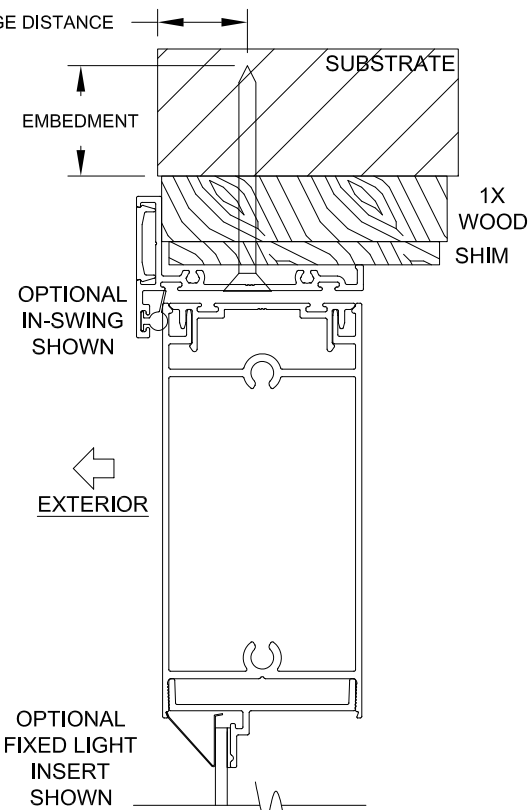
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PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

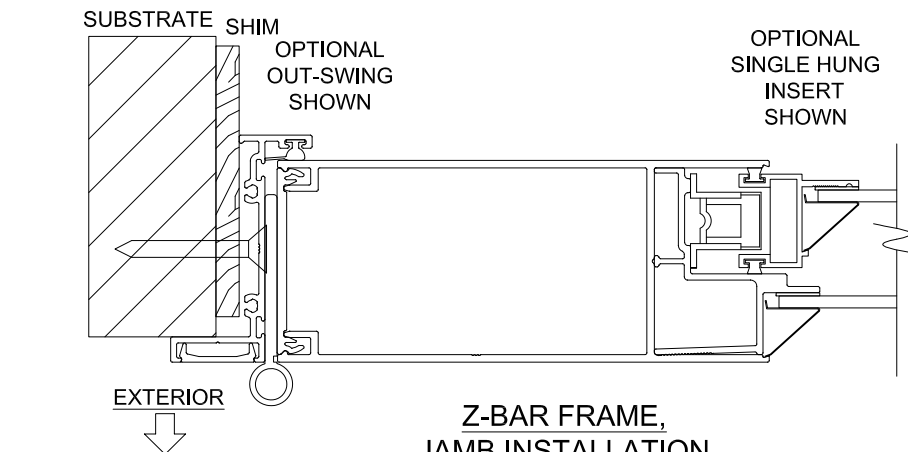


Z-BAR FRAME,
HEAD INSTALLATION
(DIRECTLY TO SUBSTRATE)

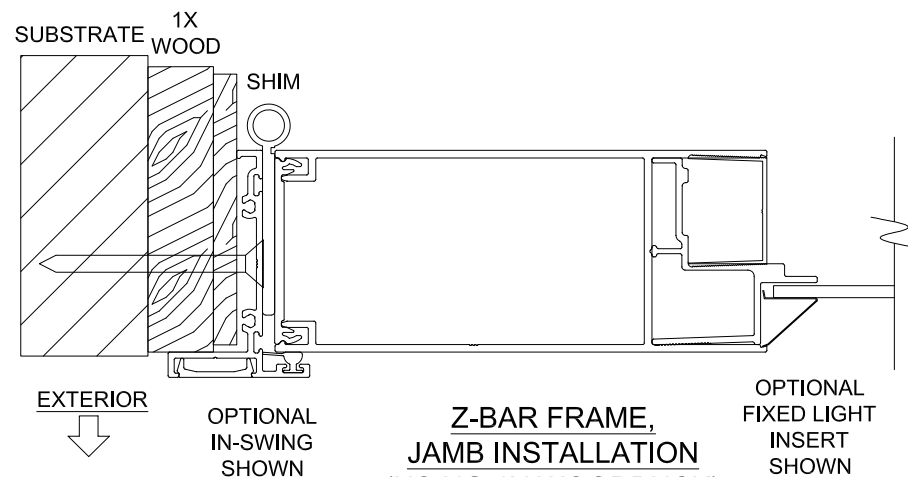


Z-BAR FRAME,
HEAD INSTALLATION
(USING 1X WOODBUCK)

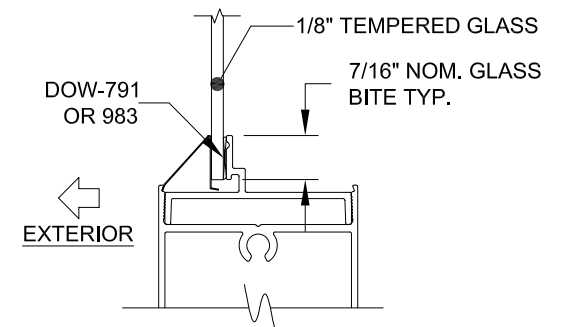
Z-BAR (FLANGE)
FRAME
INSTALLATION



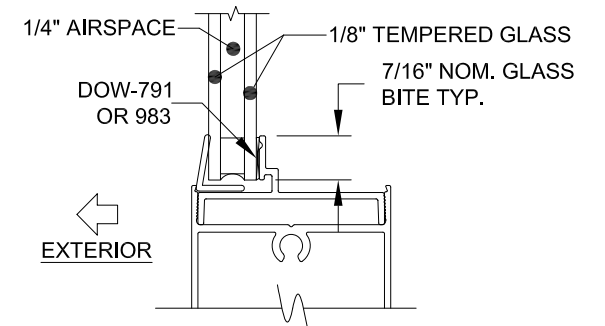
Z-BAR FRAME,
JAMB INSTALLATION
(DIRECTLY TO SUBSTRATE)



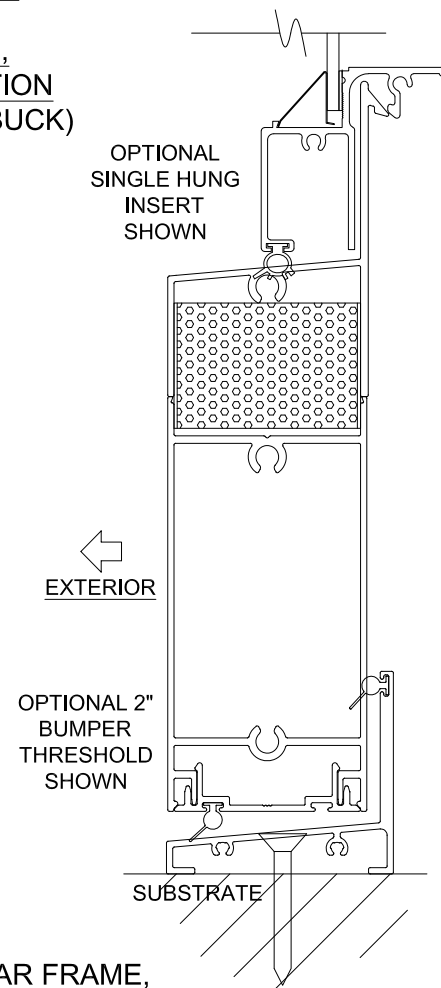
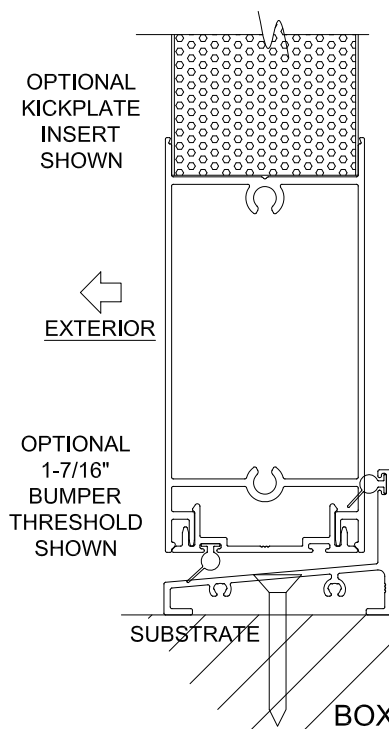
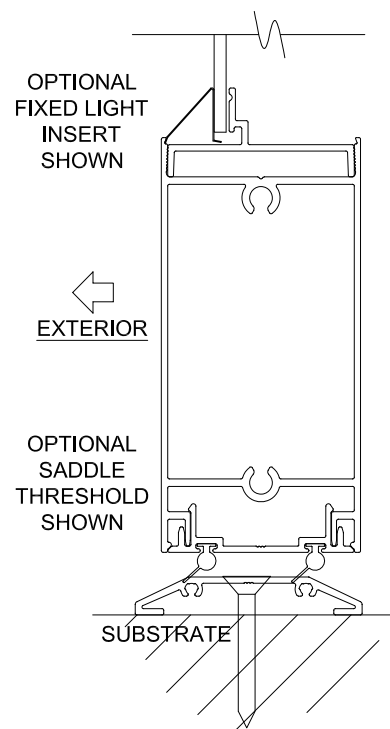
Z-BAR FRAME,
JAMB INSTALLATION
(USING 1X WOODBUCK)



MONLITHIC GLAZING DETAIL



INSULATED GLAZING DETAIL



BOX/Z-BAR FRAME,
SILL INSTALLATIONS

NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON SHEET 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER SHEET 1. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD. MAX. SHIM THICKNESS IS 1/4"
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

Title: ALUM. CABANA DOOR, X & XX (NI)		Drawn By: JENS ROSOWSKI	
Description: Z-BAR FRAME INSTALLATION		Date: 03/24/21	
Revision: ADDED ULTRACON+ ANCHORS		Rev. By: JR	Rev. Date: 09/08/20
Series/Model: CD4090A	Scale: NTS	Sheet: 2 OF 3	Drawing No. CD4090FPA
		Rev: A1	

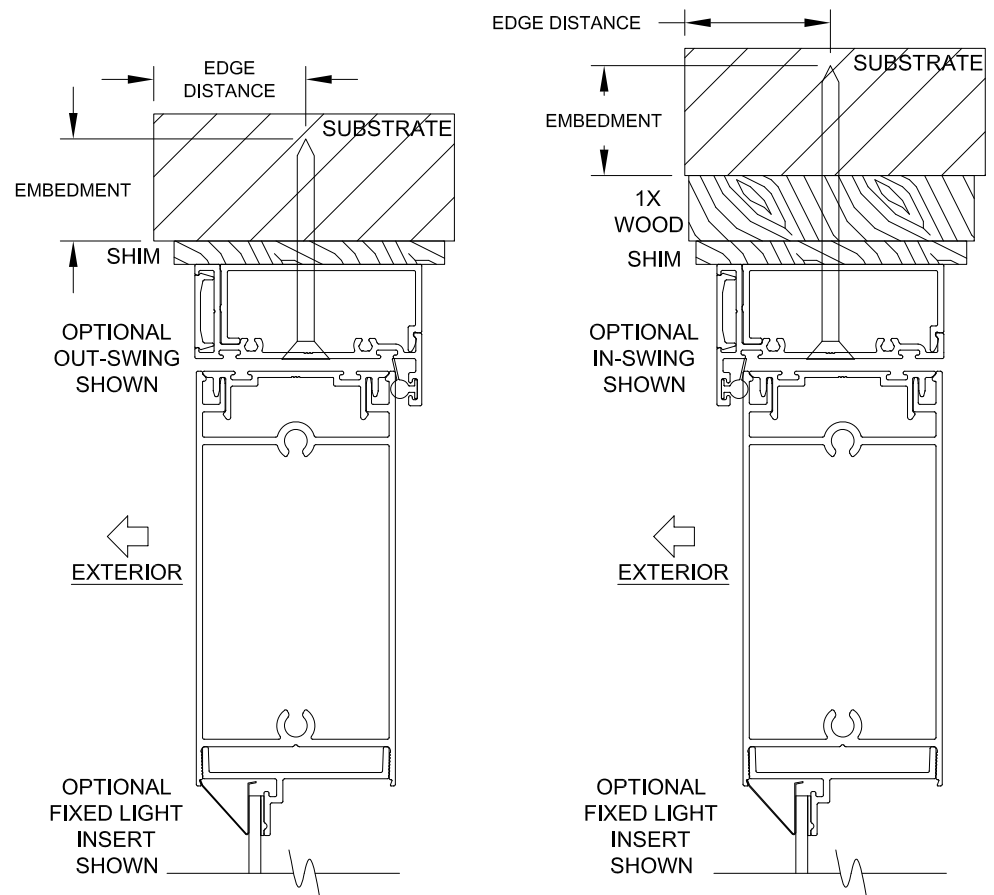
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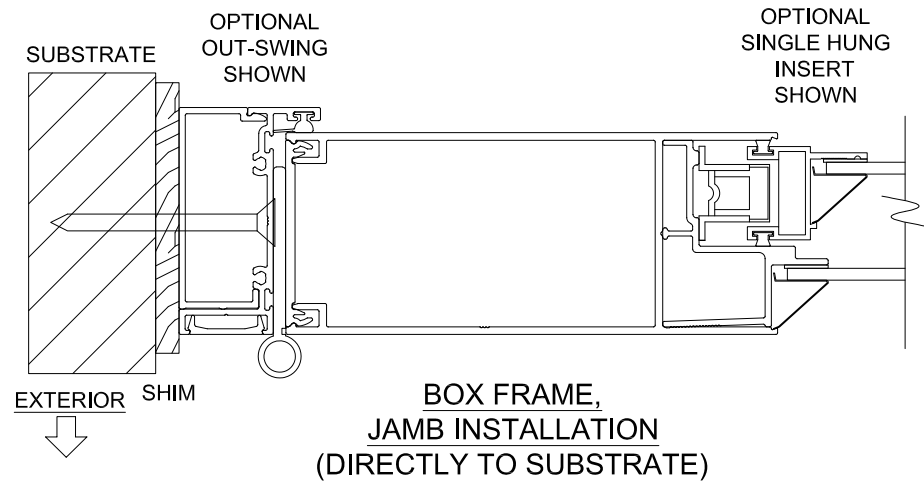
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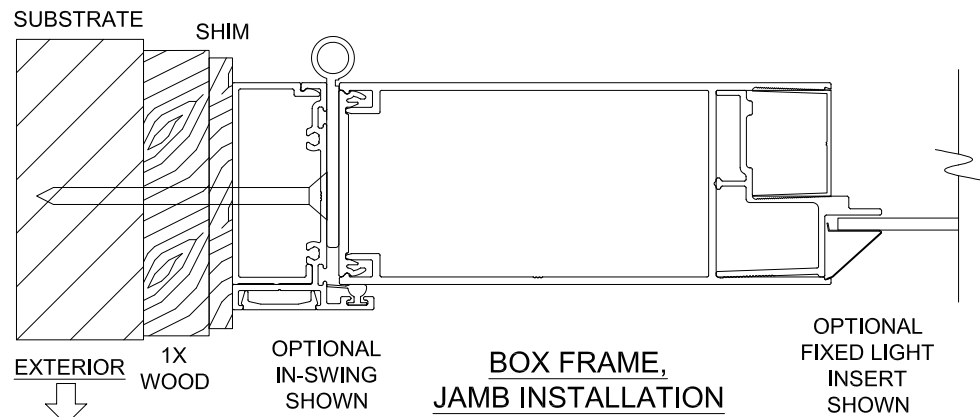
BOX FRAME,
HEAD INSTALLATION
(DIRECTLY TO SUBSTRATE)

BOX FRAME,
HEAD INSTALLATION
(USING 1X WOODBUCK)

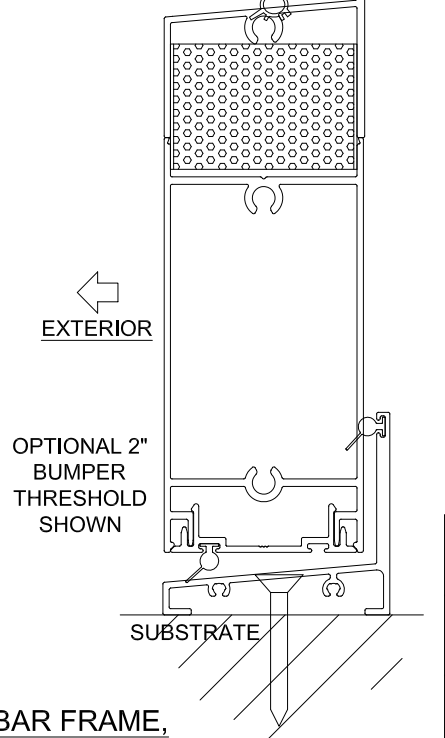
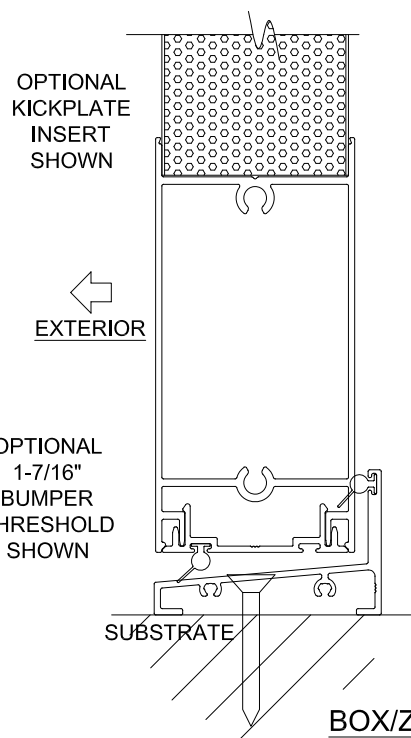
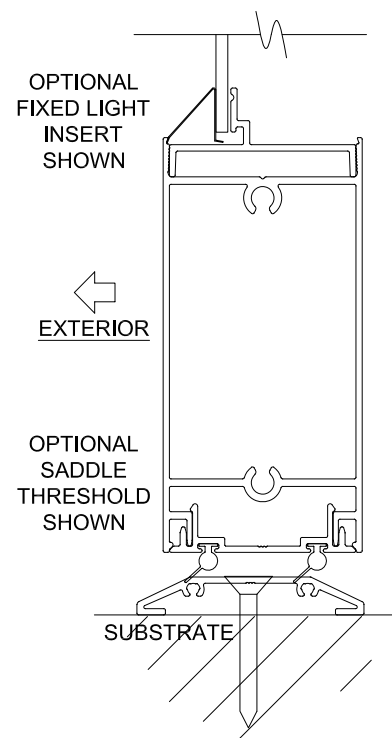
BOX FRAME
INSTALLATION



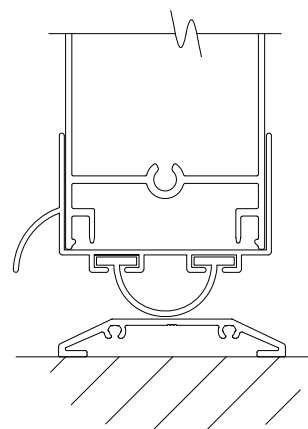
BOX FRAME,
JAMB INSTALLATION
(DIRECTLY TO SUBSTRATE)



BOX FRAME,
JAMB INSTALLATION
(USING 1X WOODBUCK)



BOX/Z-BAR FRAME,
SILL INSTALLATIONS



OPTIONAL
ADJUSTABLE
BUG SWEEP
(SADDLE
THRESHOLD
ONLY)

NOTES:

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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

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