GENERAL NOTES :

1) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR THE DESIGN PRESSURES LISTED IN THE APPLICABLE PRODUCT TEST REPORTS.

2) REFERENCE TEST REPORTS: ATI-88619, ATI-94579

3) 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.

4) SEE TABLE 1 FOR MINIMUM EDGE DISTANCE FROM CENTER OF ANCHOR TO SUBSTRATE EDGE (EXCLUDING FINISH OR STUCCO).

5) SHIM EACH ANCHOR LOCATION, UP TO 1/4", WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE, USING SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

6) 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 FLORIDA BUILDING CODE CHAPTER 20.

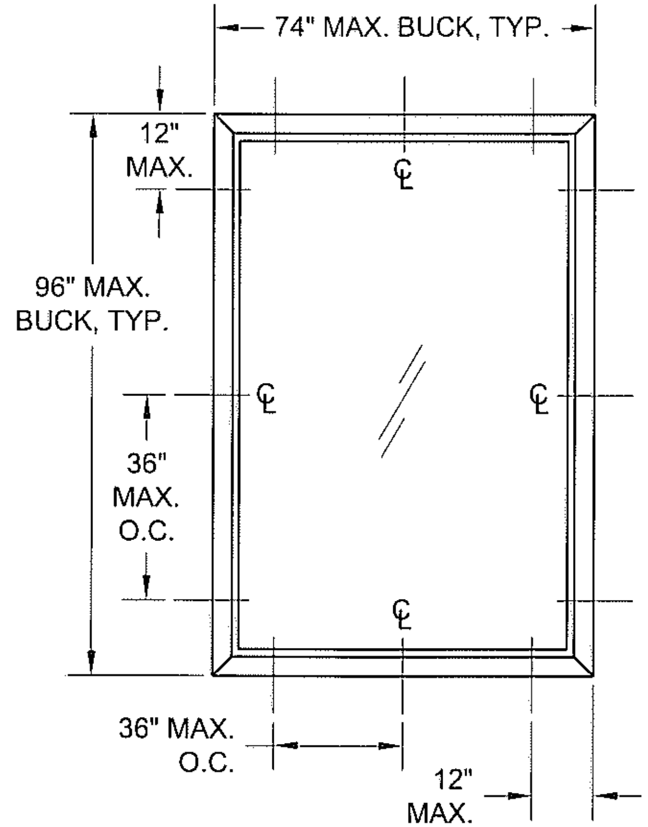
7) ADHESIVE SEALANT SHALL BE USED BETWEEN SUBSTRATE AND FLANGE OR FIN. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS.

8) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, AND CONCRETE MASONRY UNITS COMPLYING WITH ASTM C-90. GLAZING COMPLIES WITH ASTM E1300-04.

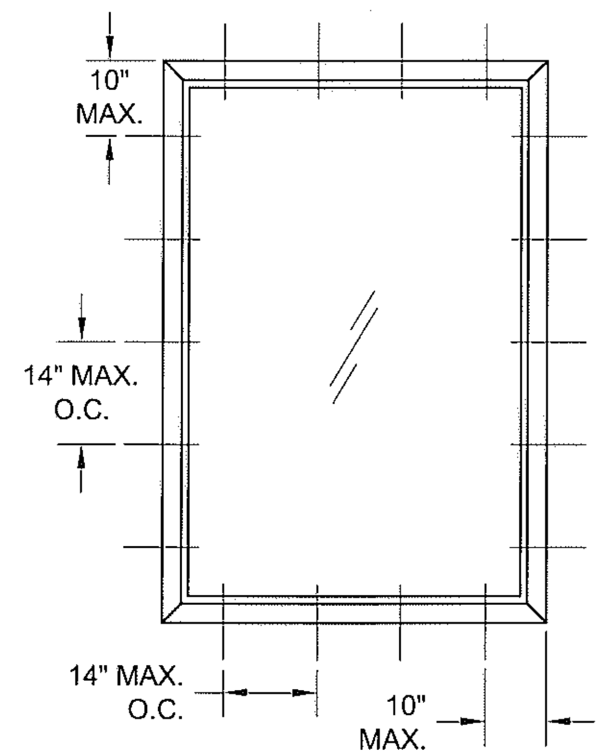
9) THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF WOOD SCREWS.

10) IF THE EXACT PRODUCT SIZE IS NOT LISTED IN THE TABLES, ALWAYS ROUND UP TO THE NEXT LARGER VALUE.

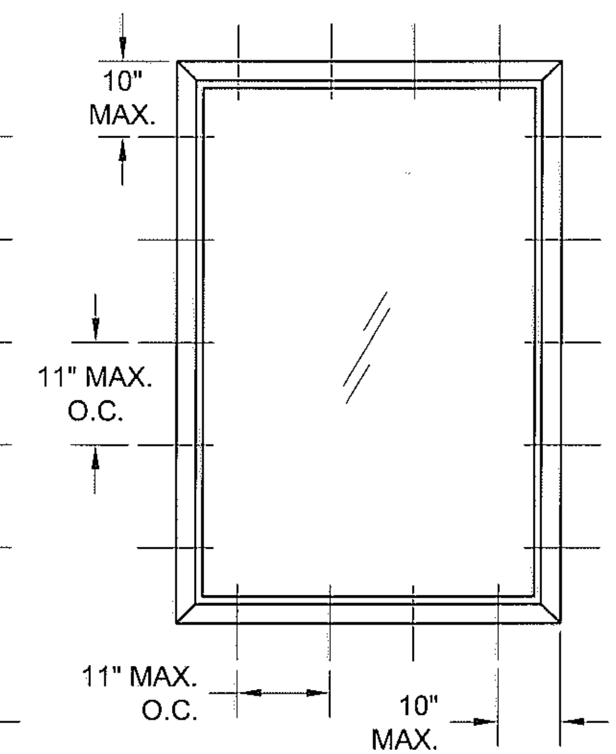
11) PICTURE WINDOW MAXIMUM SIZE MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.



ANCHORAGE METHOD 1,
INSTALLATION THROUGH FRAME USING BLIND STOPS
(SEE SHEET 2 FOR EXACT ANCHOR QUANTITIES PER SIZE)

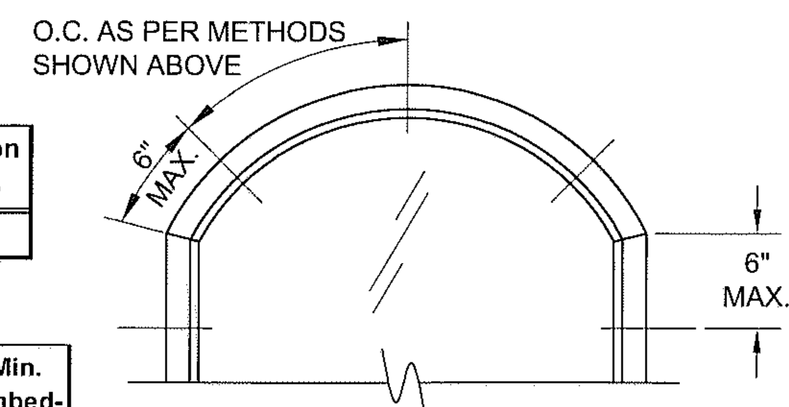


ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME WITHOUT BLIND STOPS
(SEE SHEET 3 FOR EXACT ANCHOR QUANTITIES PER SIZE)



ANCHORAGE METHODS 3 & 4,
INSTALLATION USING TWIST BRACKETS
(SEE SHEET 4 FOR EXACT ANCHOR QUANTITIES PER SIZE)

Window Buck Size		Design Pressure		Certification Numbers
Width	Height	(+) psf	(-) psf	
96	74	50	50	190-476



OTHER CURVED SHAPES SIMILAR.

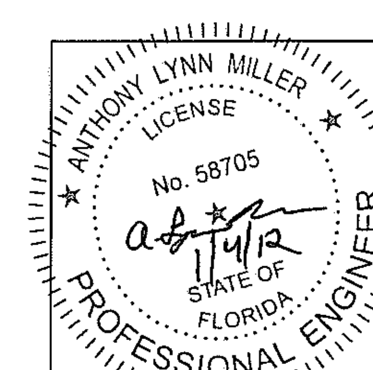


TABLE 1:

Anchorage Method	Anchor Type	Substrate	Max. O.C. Dist.	Max. Corner Dist.	Min. Edge Dist.	Min. Embed-ment
1	#10 Steel SMS through Frame with Blindstops	Wood (Southern Pine)	36"	12"	3/4"	1-3/8"
2	#10 Steel SMS through Frame	Wood (Southern Pine)	14"	10"	3/4"	1-3/8"
	3/16" Mas. Anchor through Frame	Concrete or Hollow CMU	14"	10"	2-1/2"	1-1/4"
3	#10 Steel SMS & Bracket towards Interior	Wood (Southern Pine)	11"	10"	3/4"	1-3/8"
	3/16" Mas. Anchor & Bracket towards Interior	Concrete or Hollow CMU	11"	10"	2-1/2"	1-1/4"
4	#10 Steel SMS & Bracket towards Exterior	Wood (Southern Pine)	11"	10"	3/4"	1-3/8"
	3/16" Mas. Anchor & Bracket towards Exterior	Concrete or Hollow CMU	11"	10"	2-1/2"	1-1/4"

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P.E. #58705

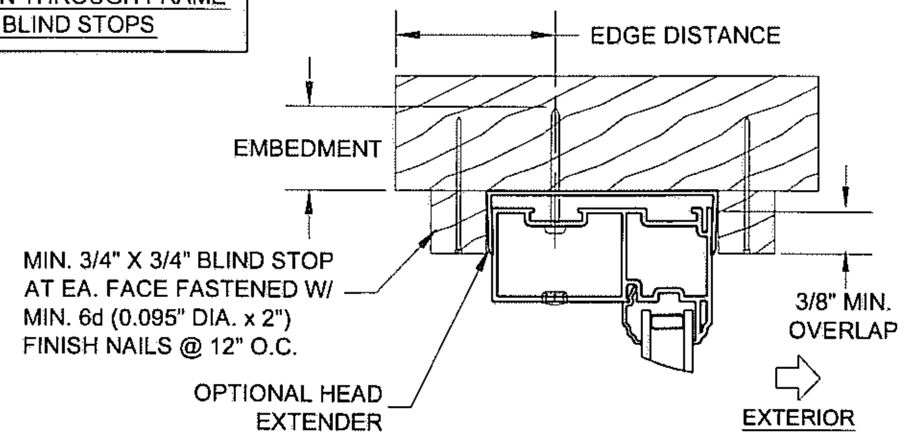
Drawn By: J. ROSOWSKI	Date: 07/18/11	Material: VINYL
Revsd By:	Date:	Revisions:

Description:

Title: PICTURE WINDOW

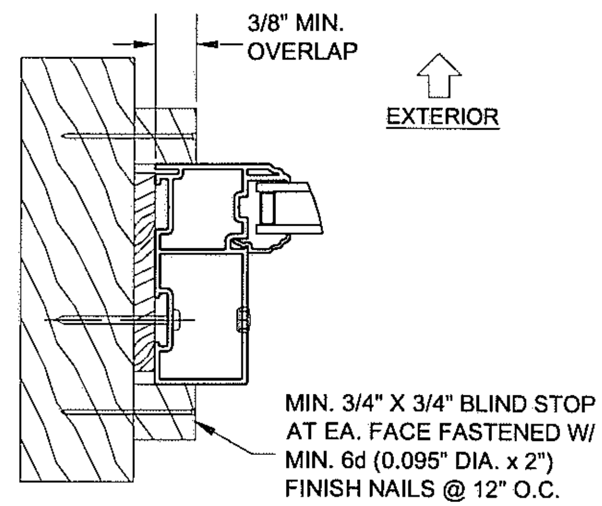
Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
PW-2320	NTS	1 of 4	1071811JR	

ANCHORAGE METHOD 1, INSTALLATION THROUGH FRAME USING BLIND STOPS



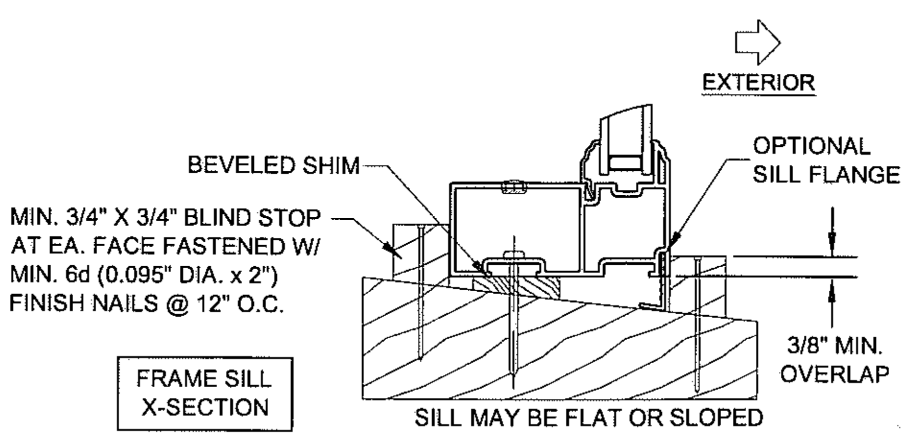
ANCHORAGE METHOD 1, INSTALLATION THROUGH FRAME (USING BLIND STOPS)

FRAME HEAD X-SECTION



ANCHORAGE METHOD 1, INSTALLATION THROUGH FRAME (USING BLIND STOPS)

FRAME JAMB X-SECTION



FRAME SILL X-SECTION

ANCHORAGE METHOD 1, INSTALLATION THROUGH FRAME (USING BLIND STOPS)

TABLE 2:

Frame Anchor Quantities when Installed with Blind Stops (Method 1)			
Window Height	Anchor Location	Window Width	
		Under 60"	60" - 96"
Under 60"	Jamb	2	2
	Head/Sill	2	3
60" - 96"	Jamb	3	3
	Head/Sill	2	3

INSTALLATION NOTES:

1) SEE TABLE 1 FOR ANCHORAGE, SUBSTRATE AND SPACING REQUIREMENTS. SEE TABLE 2 FOR QUANTITY.

2) BLIND STOPS ARE ONLY APPLICABLE WITH WOOD SUBSTRATES.

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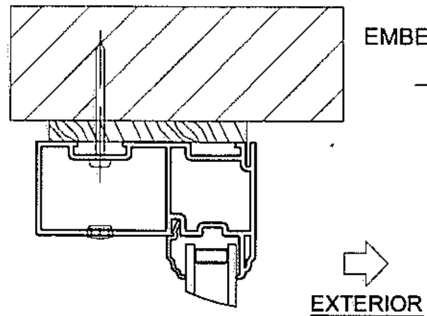
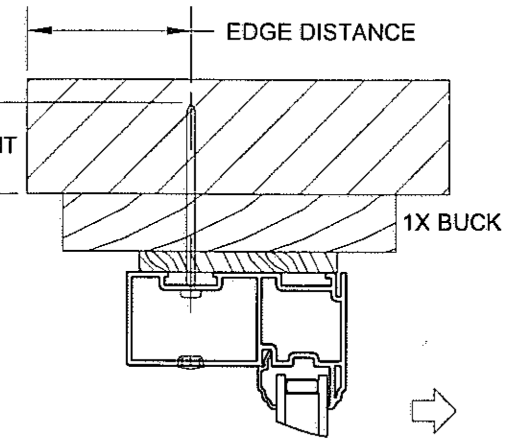
ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME
WITHOUT BLIND STOPS

FRAME HEAD X-SECTION

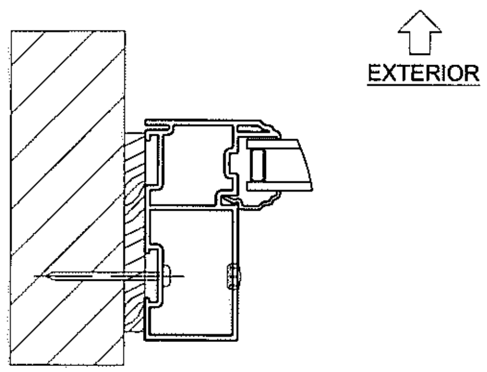


ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME

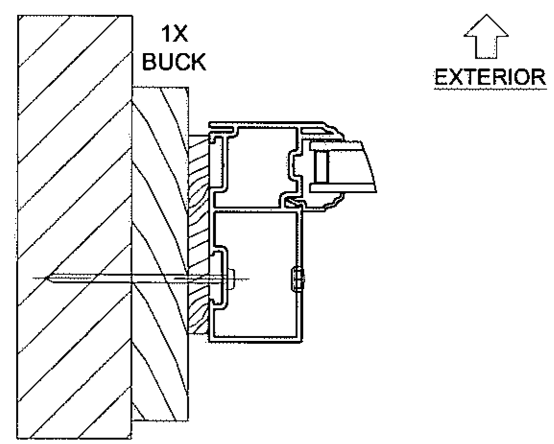


ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME
(USING 1X BUCKSTRIP)

FRAME JAMB X-SECTION

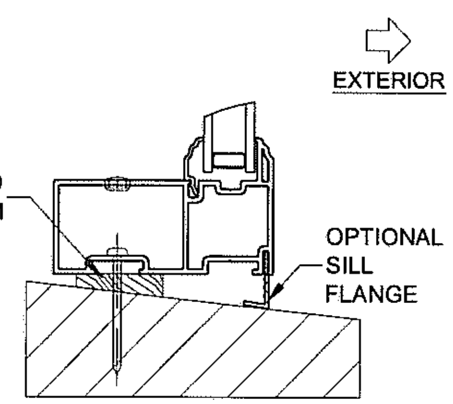


ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME



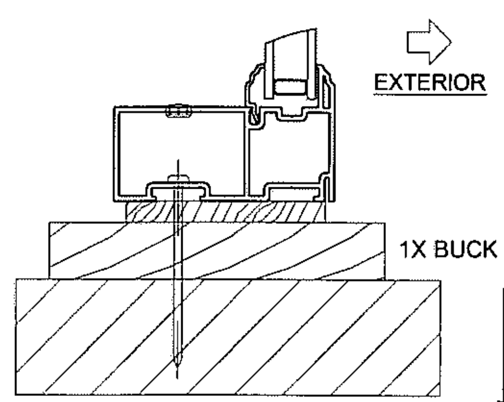
ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME
(USING 1X BUCKSTRIP)

FRAME SILL X-SECTION



SILL MAY BE FLAT OR SLOPED

ANCHORAGE METHOD 2



SILL MAY BE FLAT OR SLOPED

ANCHORAGE METHOD 2,
INSTALLATION THROUGH FRAME
(USING 1X BUCKSTRIP)

TABLE 3:

Head, Sill and Jamb Anchor Quantities When Installed Through the Frame (Method 2)

Substrate		Window Width									
		20"		34"		48"		62"		74"	
Window Height	Anchor Location*	Wood	Masonry	Wood	Masonry	Wood	Masonry	Wood	Masonry	Wood	Masonry
20"	Jamb	1	1	1	1	1	1	1	1	1	1
	Head/Sill	1	1	2	2	3	3	4	4	5	5
34"	Jamb	2	2	2	2	2	2	2	2	2	2
	Head/Sill	1	1	2	2	3	3	4	4	5	5
48"	Jamb	3	3	3	3	3	3	3	3	3	3
	Head/Sill	1	1	2	2	3	3	4	4	5	5
62"	Jamb	4	4	4	4	4	4	4	5	4	5
	Head/Sill	1	1	2	2	3	3	4	5	5	6
76"	Jamb	5	5	5	5	5	5	5	6	5	7
	Head/Sill	1	1	2	2	3	3	4	5	5	6
90"	Jamb	6	6	6	6	6	6	6	7	6	8
	Head/Sill	1	1	2	2	3	3	4	5	5	6
96"	Jamb	7	7	7	7	7	7	7	7	7	8
	Head/Sill	1	1	2	2	3	3	4	5	5	6

INSTALLATION NOTES:
1) SEE TABLE 1 FOR ANCHORAGE, SUBSTRATE AND SPACING REQUIREMENTS. SEE TABLE 3 FOR QUANTITY.

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FL CERT. OF AUTH. : 29296

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Drawn By:	Date:	Material:
J. ROSOWSKI	07/18/11	VINYL
Revsd By:	Date:	Revisions:

Description:

Title: PICTURE WINDOW

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
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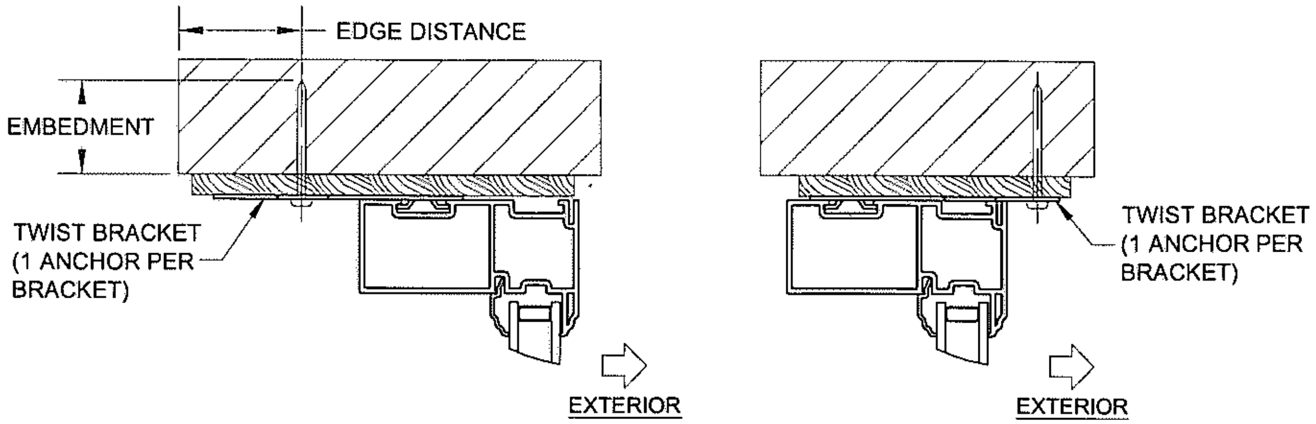
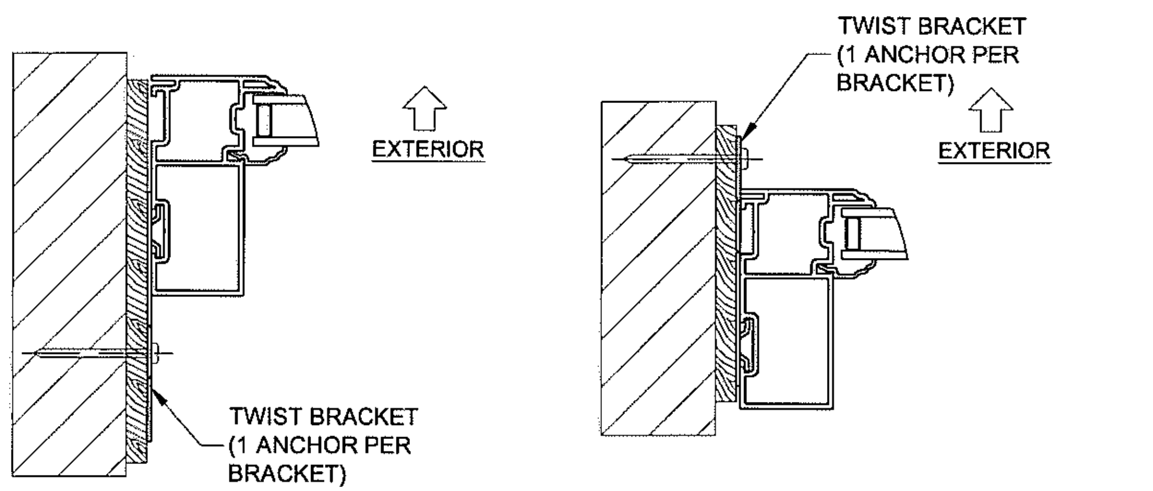
ANCHORAGE METHODS 3 & 4, INSTALLATION USING TWIST BRACKETS



FRAME HEAD X-SECTION

ANCHORAGE METHOD 3, TWIST BRACKET TOWARDS INTERIOR

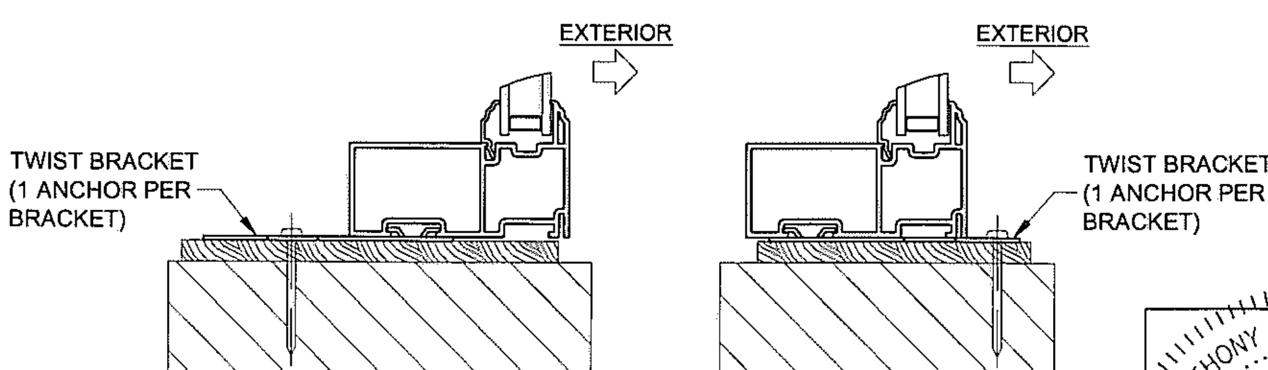
ANCHORAGE METHOD 4, TWIST BRACKET TOWARDS EXTERIOR



FRAME JAMB X-SECTION

ANCHORAGE METHOD 3, TWIST BRACKET TOWARDS INTERIOR

ANCHORAGE METHOD 4, TWIST BRACKET TOWARDS EXTERIOR



SILL MAY BE FLAT OR SLOPED

FRAME SILL X-SECTION

ANCHORAGE METHOD 3, TWIST BRACKET TOWARDS INTERIOR

ANCHORAGE METHOD 4, TWIST BRACKET TOWARDS EXTERIOR

TABLE 4:

Frame Bracket/Anchor Quantities When Installed into Wood or Masonry (Methods 3 & 4)

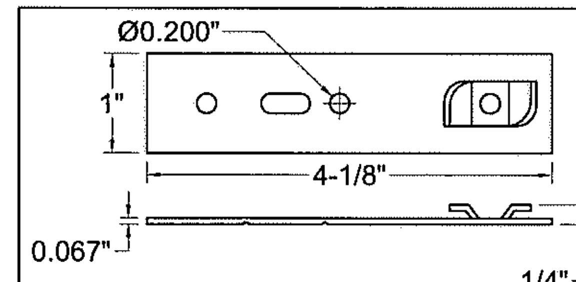
Bracket Direction		Window Width											
		20"		31"		42"		53"		64"		74"	
Window Height	Bracket/ Anchor Location	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior	Interior	Exterior
20"	Jamb	1	1	1	1	1	1	1	1	1	1	1	1
	Head/Sill	1	1	2	2	3	3	4	4	5	5	6	6
31"	Jamb	2	2	2	2	2	2	2	2	2	2	2	2
	Head/Sill	1	1	2	2	3	3	4	4	5	5	6	6
42"	Jamb	3	3	3	3	3	3	3	3	3	3	3	3
	Head/Sill	1	1	2	2	3	3	4	4	5	5	6	6
53"	Jamb	4	4	4	4	4	4	4	5	4	5	4	5
	Head/Sill	1	1	2	2	3	3	4	5	5	6	6	7
64"	Jamb	5	5	5	5	5	5	5	6	5	6	5	6
	Head/Sill	1	1	2	2	3	3	4	5	5	6	6	8
75"	Jamb	6	6	6	6	6	6	6	7	6	8	7	9
	Head/Sill	1	1	2	2	3	3	4	5	5	6	7	9
86"	Jamb	7	7	7	7	7	7	7	8	7	9	8	10
	Head/Sill	1	1	2	2	3	3	4	5	5	6	7	9
96"	Jamb	8	8	8	8	8	8	8	9	8	10	9	11
	Head/Sill	1	1	2	2	3	3	4	5	5	6	7	9

TWIST BRACKET NOTES:

1) BRACKETS MAY BE TRIMMED TO WITHIN 1/2" OF ANCHOR HOLE AND MAY BE BENT TO ACCOMODATE SLOPED SILLS.

2) BRACKETS SHOULD BE EVENLY SPACED AND MAY BE SHIMMED UP TO 1/4".

3) SEE TABLE 1 FOR ANCHORAGE, SUBSTRATE AND SPACING REQUIREMENTS. SEE TABLE 4 FOR QUANTITY.



TWIST BRACKET
GALVANIZED COMMERCIAL GRADE STEEL (MIN. Fy = 40 KSI)
PART NO: 72281

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