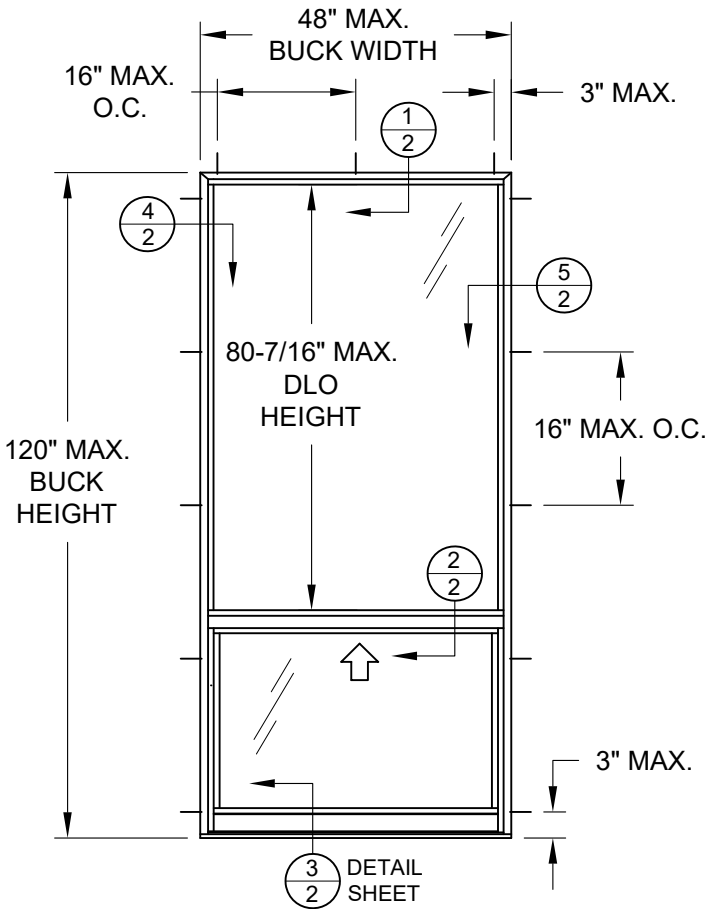


DEL MAR SERIES & CATALINA SERIES
NON-IMPACT RESISTANT, VINYL
SINGLE HUNG WINDOW

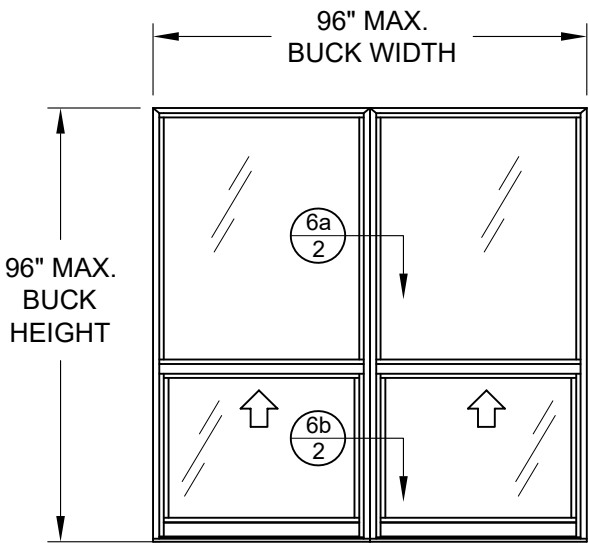
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD. ALL WOOD BUCKS LESS THAN 1-1/2" 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.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.
- 5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

TABLE 1:

Buck Size	Configuration	Max. Sash Height	Rating	Design Pressure	CPD No.
48" X 120"	O/X	35"	R-PG25	+/-25	17429
96" X 96"	O/X O/X	36"	R-PG20	+/-20	14541
96" X 75"	O/X O/X	28"	R-PG20	+20.9/-28.2	23070
96" X 62"	O/X O/X	23"	R-PG20	+20.9/-37.9	23069

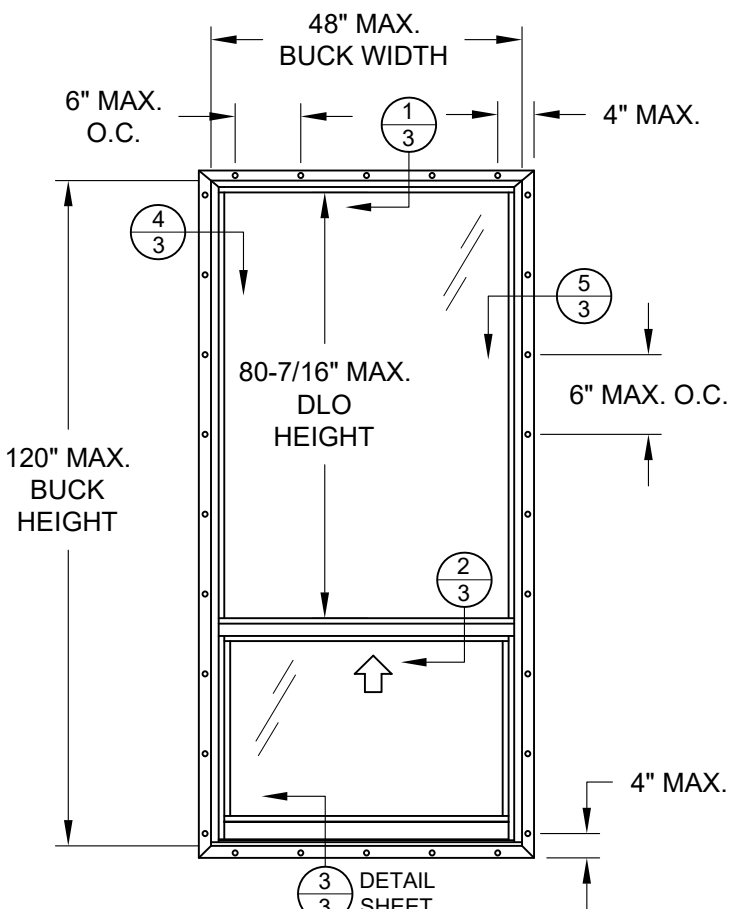


TYP. ANCHOR LOCATIONS
BLOCK, FACEGROOVE BLOCK,
FLUSH FIN & BRICKMOULD
FRAMES



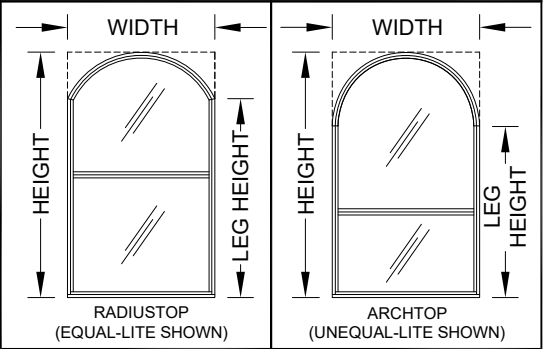
TWIN UNIT CONFIGURATION
ALL FRAME TYPES

NOTE:
4" MAX. O.C.
ANCHOR SPACING
FOR TWIN UNITS
WITH NAIL FIN
FRAMES



TYP. ANCHOR LOCATIONS
NAIL FIN & FACEGROOVE
NAIL FIN FRAMES

WINDOW SHAPES AS SHOWN BELOW OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES AND ANCHORAGE FOR THAT BLOCK SIZE.



DESIGN PRESSURE RATING
SEE TABLE 1

NOT RATED FOR MISSILE
IMPACT RESISTANCE

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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ANCHOR ELEVATIONS/NOTES

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By
COLTON KEMPf

1 OF 3

SH FPA - DEL MAR

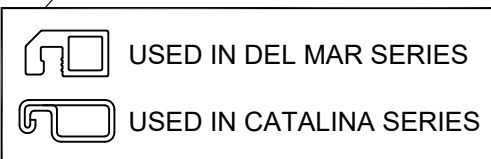
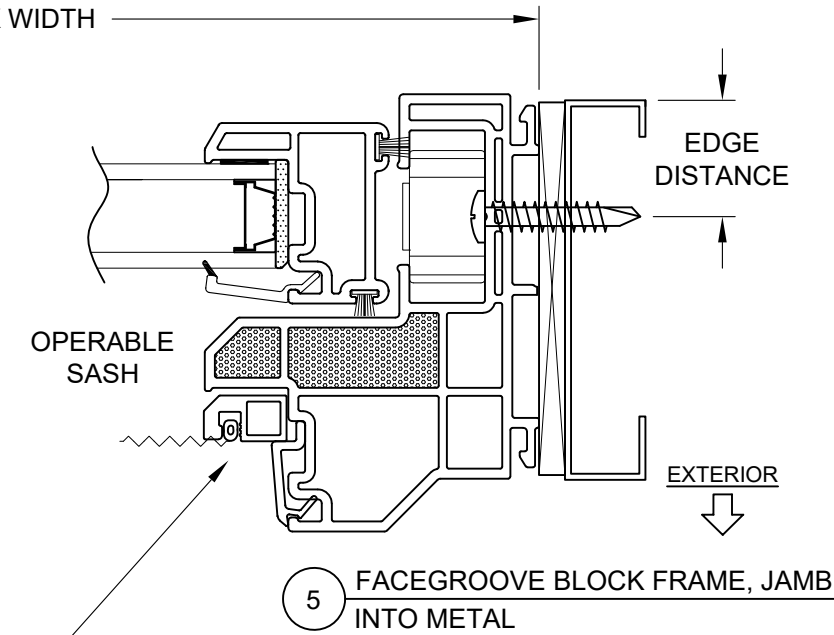
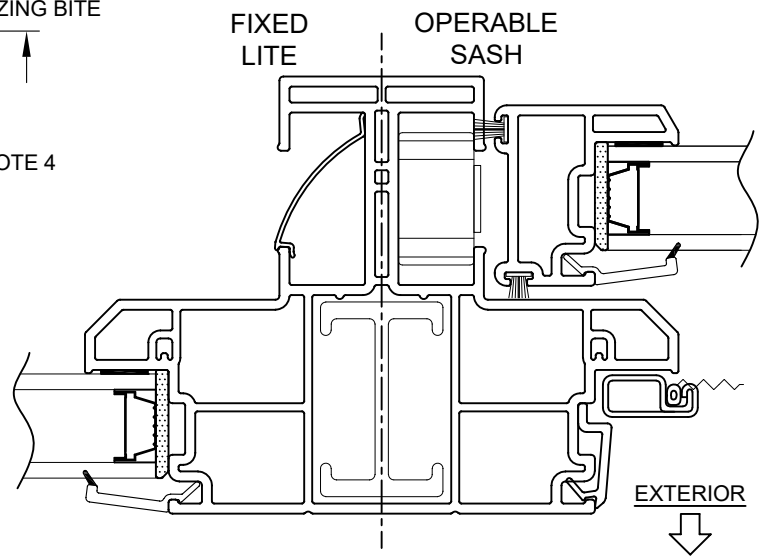
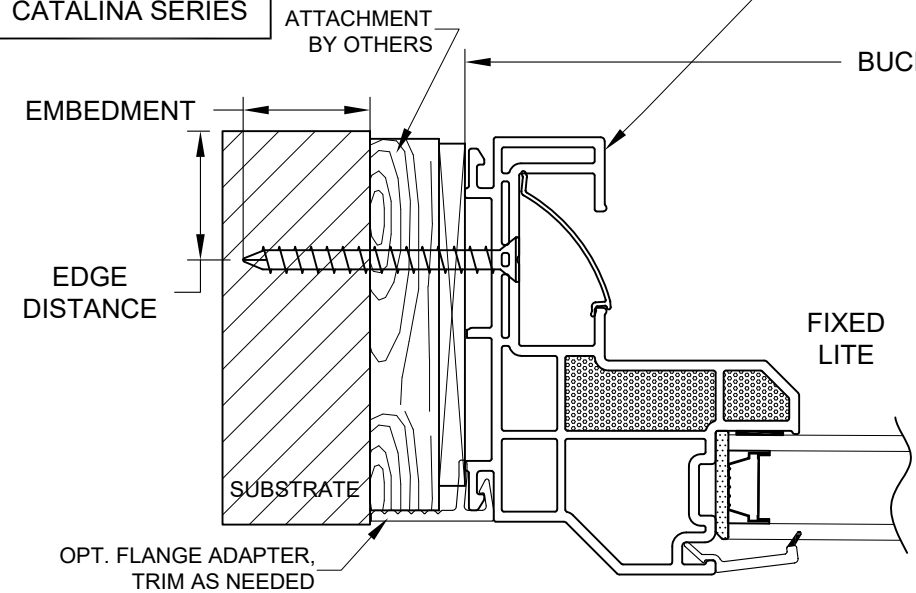
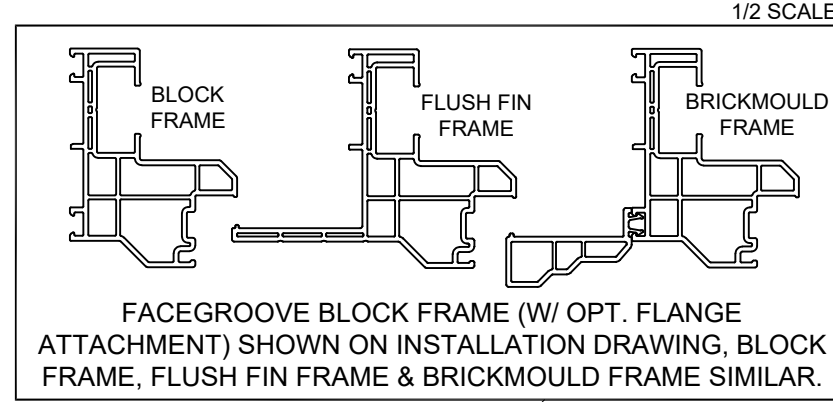
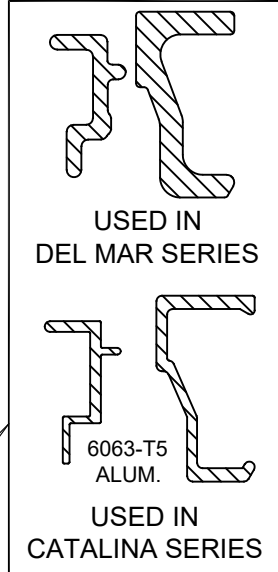
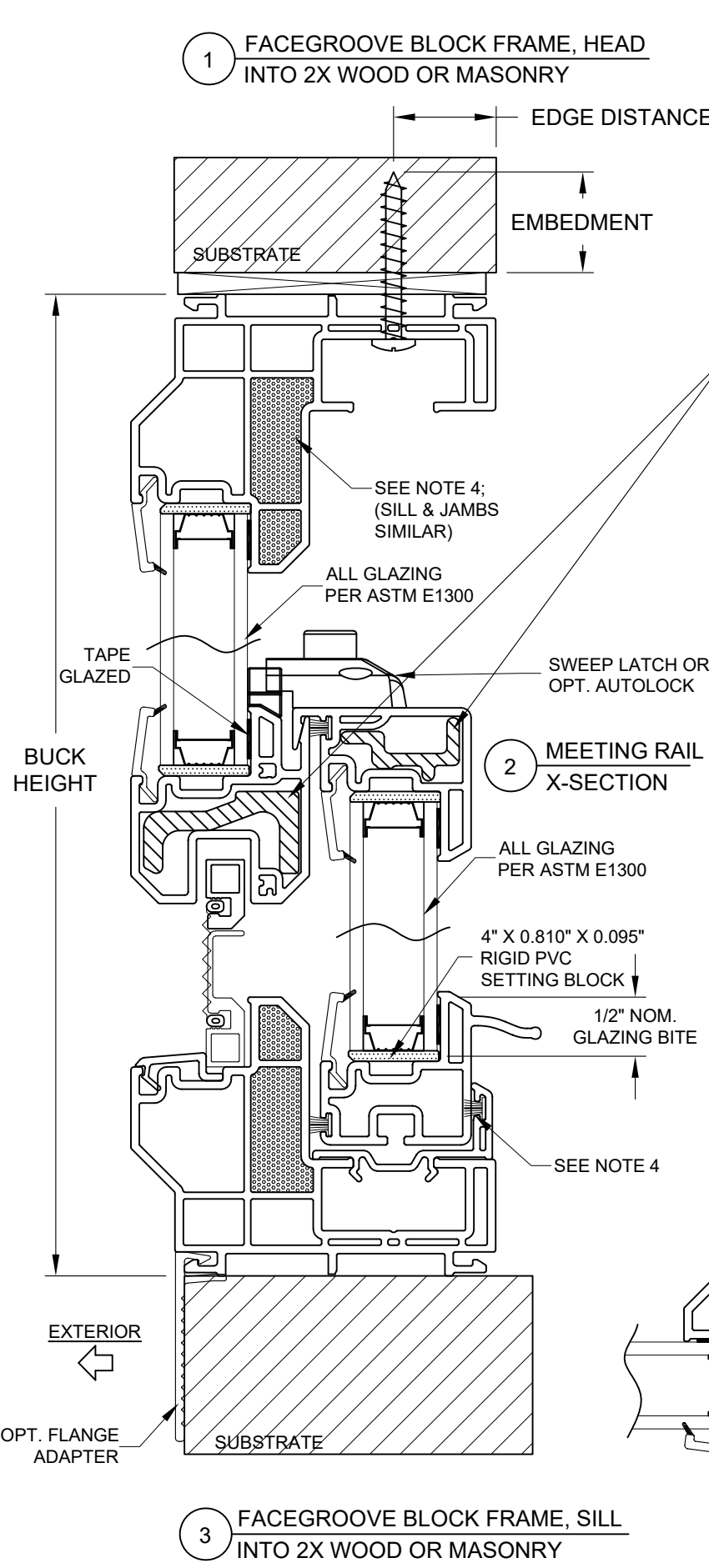


TABLE 2:

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#8 Steel SMS	Wood	7/16"	1-3/8"
	Aluminum, 6063-T5 min.	1/4"	0.050"
	Steel Stud, Gr. 33 min.	3/8"	0.0345" (20 Ga)
	A36 Steel	3/8"	0.0345" (20 Ga)
3/16" Masonry Anchor	Concrete (min. 2.9 ksi)	1"	1-3/4"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	Wood	1"	1-3/8"

- 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.

- INSTALLATION NOTES:
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS. DOWSIL 1199 SILICONE BACKBEDDING AT ALL GLAZING LEGS EXCEPT WHERE TAPE-GLAZING IS NOTED.
- 2) ANY INSTALLATION OPTION SHOWN (2X BUCK OR WOOD FRAMING, 1X BUCK, DIRECT TO MASONRY, STEEL STUD) MAY BE USED ON ANY SIDE OF THE WINDOW.
- 3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN THE ANCHOR TABLE. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. MAX. SHIM THICKNESS TO BE 1/4".
- 4) DEL MAR SERIES USES INNERGY COMPOSITE REINFORCEMENTS, AN EXTRUDED SCREEN FRAME, FOAM-FILLED WINDOW FRAME AND ADDITIONAL WEATHERSTRIP AS SHOWN IN THE ABOVE DRAWING.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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X-SECTIONS DETAILS

DEL MAR & CATALINA

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SH FPA - DEL MAR

2 OF 3

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Desc.

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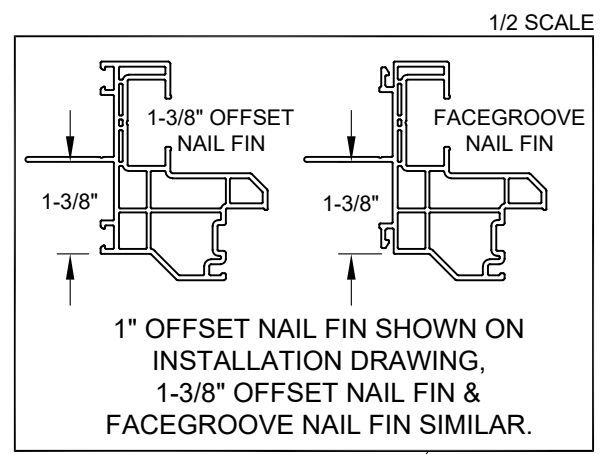
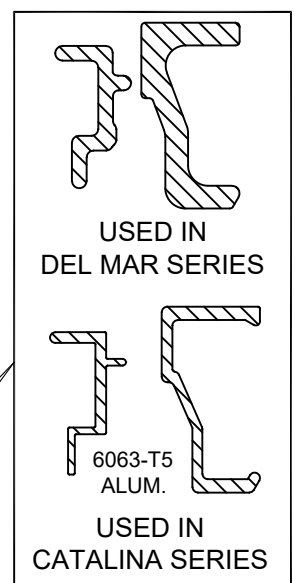
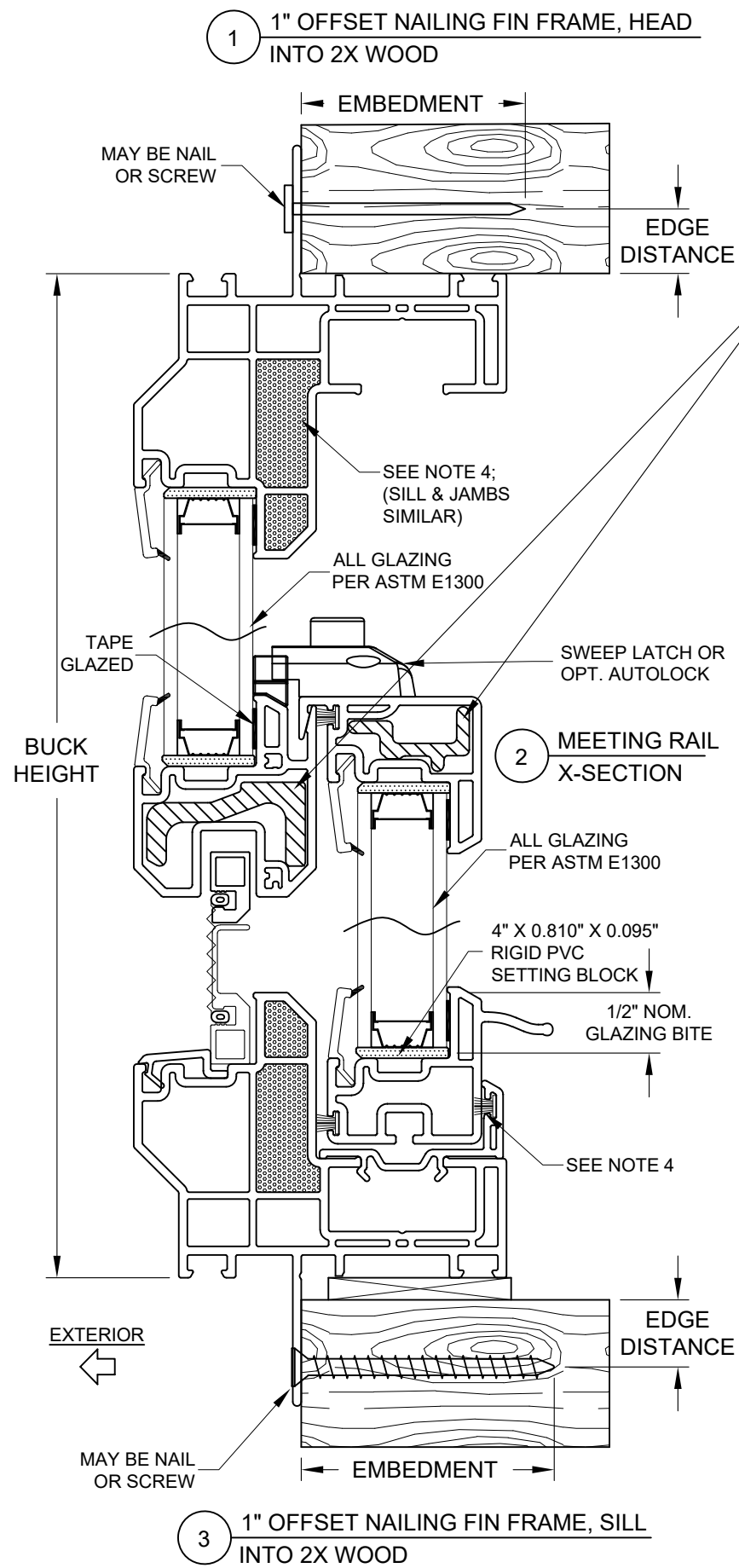
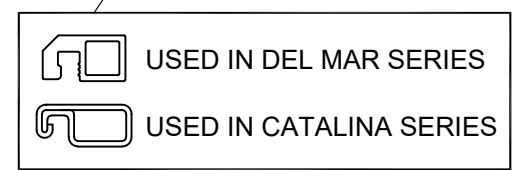
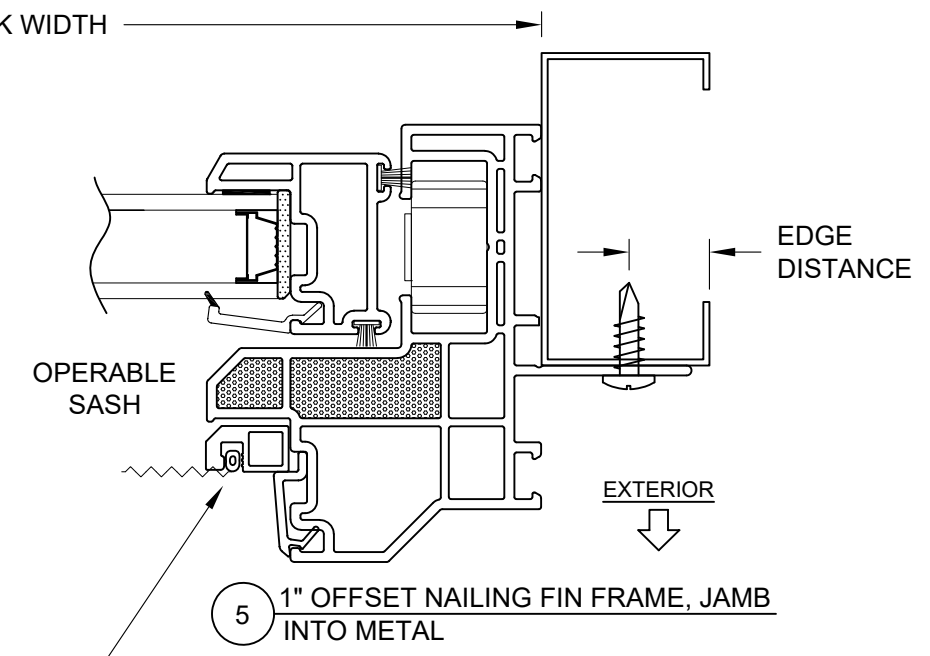
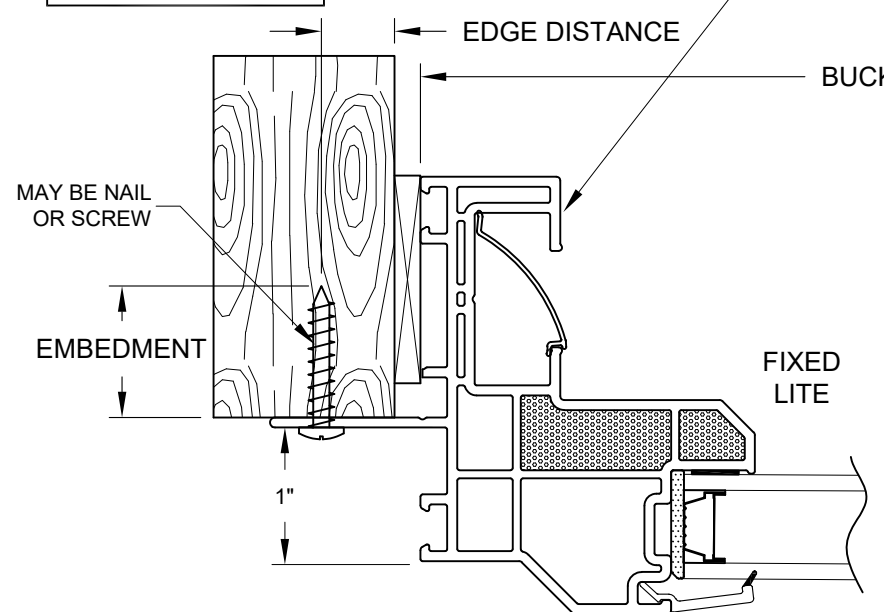


TABLE 3:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#6 x 1-5/8" Drywall Screw	Wood	3/8"	1-3/8"
2-1/2" x .145" Roofing Nail	Wood	3/8"	2-7/16"
#8 Steel SMS	Wood	1/2"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	1/8"
	Steel Stud, Gr. 33 min.	3/8"	0.0346" (20 Ga)
	A36 Steel	3/8"	0.0346" (20 Ga)

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.



INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS. MAX. SHIM THICKNESS TO BE 1/4". MAX. SHIM SPACING TO BE 18". DOWSIL 1199 SILICONE BACKBEDDING AT ALL GLAZING LEGS EXCEPT WHERE TAPE-GLAZING IS NOTED.
- 2) FIN MAY BE REMOVED TO CREATE OTHER FRAME TYPES.
- 3) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN ANCHOR TABLE. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY OR ALL SIDES OF THE WINDOW.
- 4) DEL MAR SERIES USES INNERGY COMPOSITE REINFORCEMENTS, AN EXTRUDED SCREEN FRAME, FOAM-FILLED WINDOW FRAME AND ADDITIONAL WEATHERSTRIP AS SHOWN IN THE ABOVE DRAWING.
- 5) SEE SHEET 2 FOR MULLION DETAILS.

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N. VENICE, FL 34275
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Date

COLTON KEMPFF

By

3 OF 3

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DEL MAR & CATALINA

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VINYL SINGLE HUNG

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