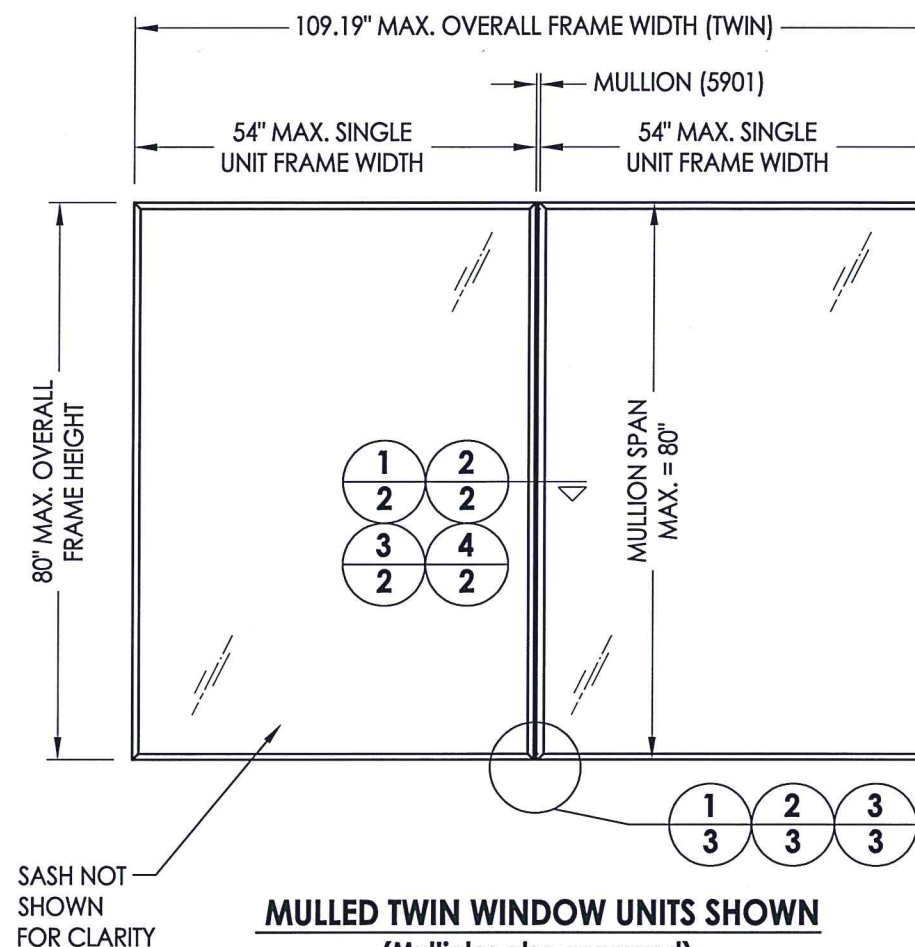


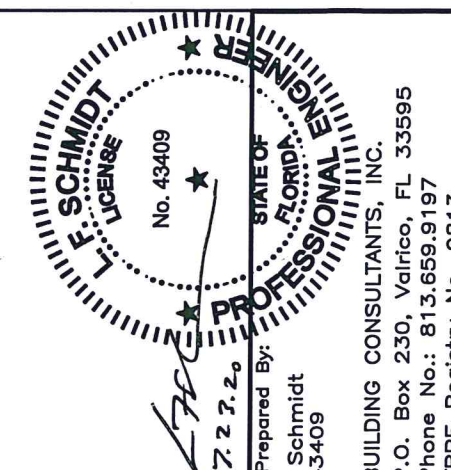


1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements, excluding the "High Velocity Hurricane Zone".
2. When used in areas requiring wind borne debris protection, this product (if mulled together with impact rated windows) does not require protection from an impact resistant covering when used in Wind Zones 1, 2 and 3 as defined by ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
3. In Wind Zone 4, as defined by ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1, this product must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
4. Wood bucks by others, must be anchored properly to transfer loads to the structure and be reviewed by the Building Official.
5. Separate product approvals (by Sunrise Windows only) for each glazing product used with these mullions must be submitted along with this mullion product approval. The design pressure rating of the assembly shall be the lesser of the load capacity of the mullion as specified using this approval or the design pressure rating of the individual glazing products used.
6. Anchoring of each glazing product to the mullion shall be as shown in this drawing or as shown in each individual glazing product approval, whichever is more stringent.
7. Mullion anchor embedment to base material shall be beyond wall dressing or stucco.
8. Any conditions not covered in this evaluation are subject to separate engineering evaluation.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Mullion details & cross sections
3	Mullion anchoring details



MULLED TWIN WINDOW UNITS SHOWN
(Multiples also approved)

[illegible]

Documents Prepared By:
-lyndon F. Schmidt
P.F. No. 43409

CONAL
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: 5901 ALUMINUM MULLION

PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES

[illegible]

DATE: 5/16/19

SCALE: *N.T.S.*

DWG. BY: LFS

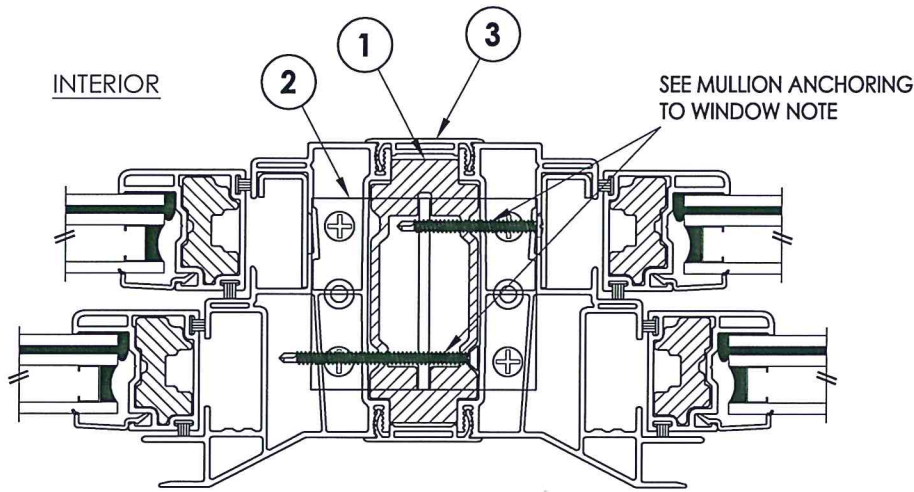
CHK. BY: RW

DRAWING NO.:

FL-29644.1

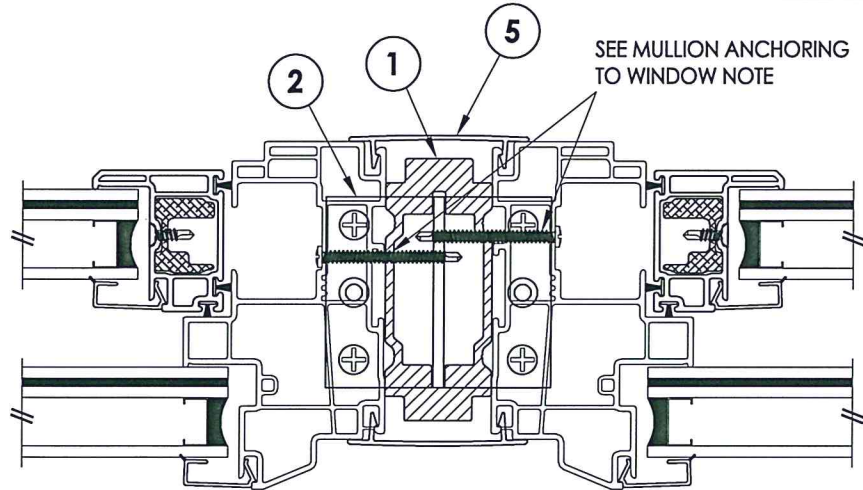
SHEET 1 OF 3

R:\Clients\Sunrise Windows\A - Florida Product Approvals\FL-29644 - Mullion\C - Drawings\FL-26944 (2020)\FL-29644.1.dwg, 2.1

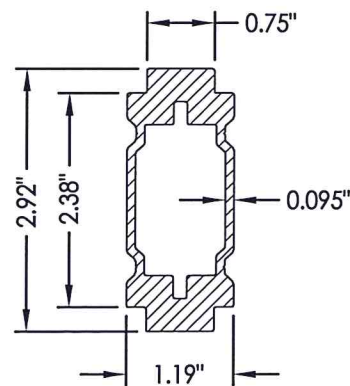


EXTERIOR

1 HORIZONTAL CROSS SECTION
2 @ MULLION ANCHOR BRACKET
(SHOWN w/ DOUBLE HUNG FRAME)



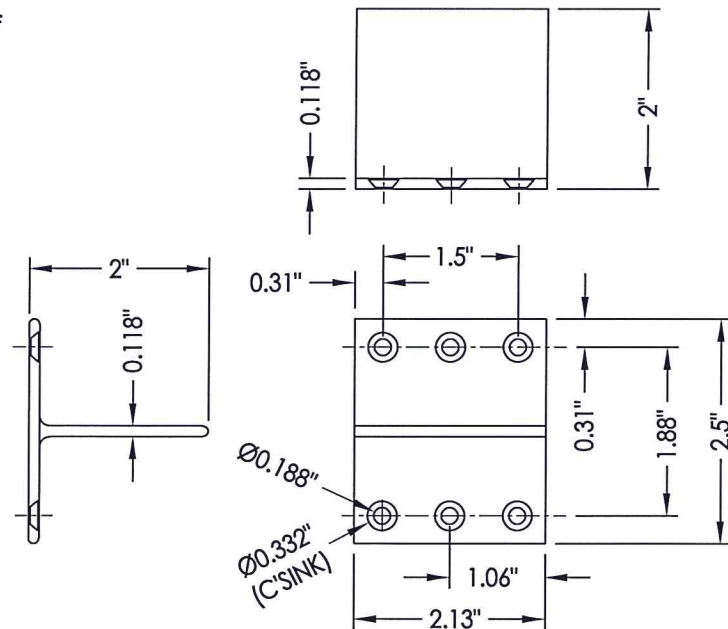
2 HORIZONTAL CROSS SECTION
2 @ MULLION ANCHOR BRACKET
(SHOWN w/ SINGLE HUNG FRAME)



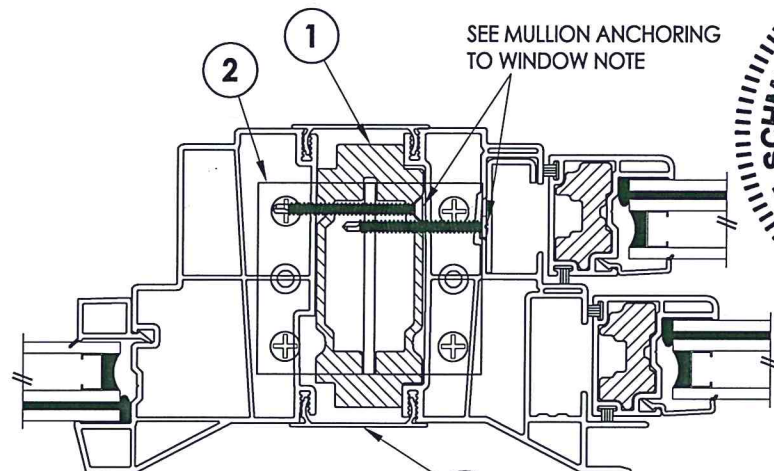
1 MULLION (5901)
6063-T5 ALUM

WINDOW ANCHORING TO MULLION NOTE:

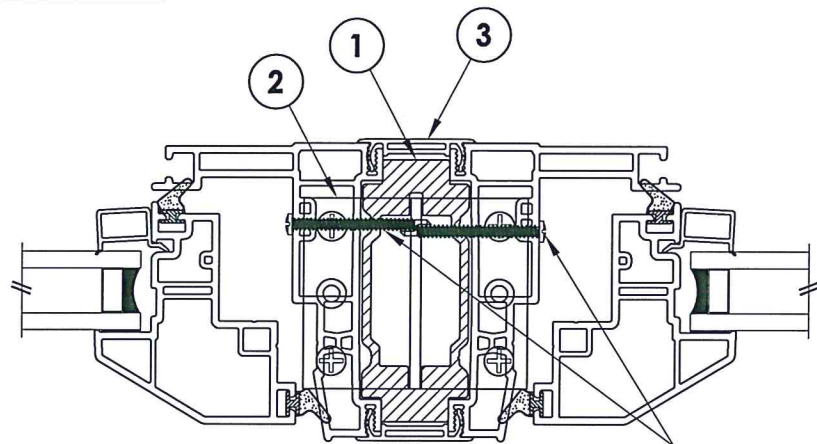
Refer to separate window approval (by Sunrise Windows) for quantity, location, size & head type of anchors required to fasten window frame to mullion. At a minimum, substitute a #10-16 Self-Drilling SMS for each connector with at least 3 threads protruding completely through the mullion face.



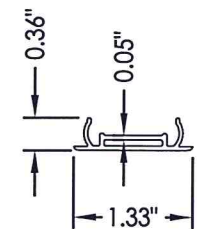
2 MULLION ANCHOR BRACKET (5950)
6063-T5 ALUM



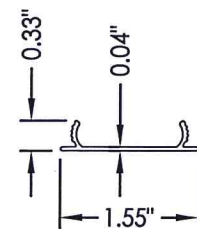
3 HORIZONTAL CROSS SECTION
2 @ MULLION ANCHOR BRACKET
(SHOWN w/ FIXED FRAME & DOUBLE HUNG)



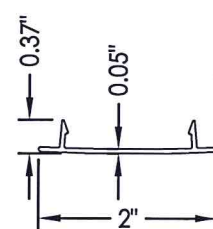
4 HORIZONTAL CROSS SECTION
2 @ MULLION ANCHOR BRACKET
(SHOWN w/ CASEMENT/AWNING FRAME)



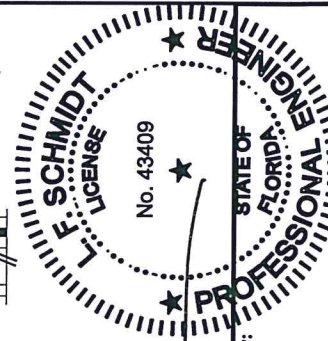
3 MULLION COVER



4 MULLION COVER



5 MULLION COVER



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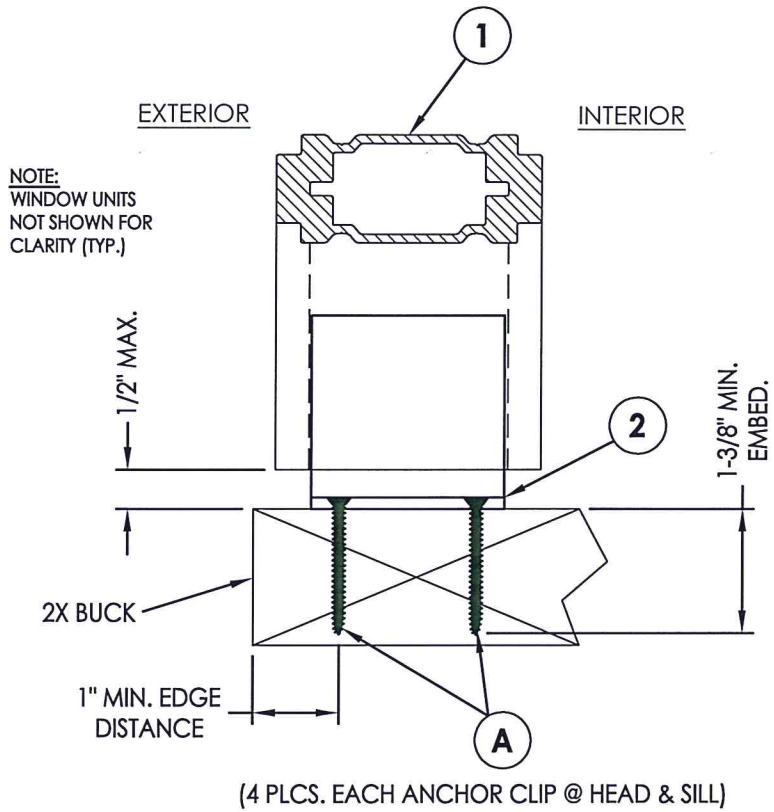
PRODUCT:
5901 ALUMINUM MULLION

PART OR ASSEMBLY:
MULLION DETAILS &
CROSS SECTIONS

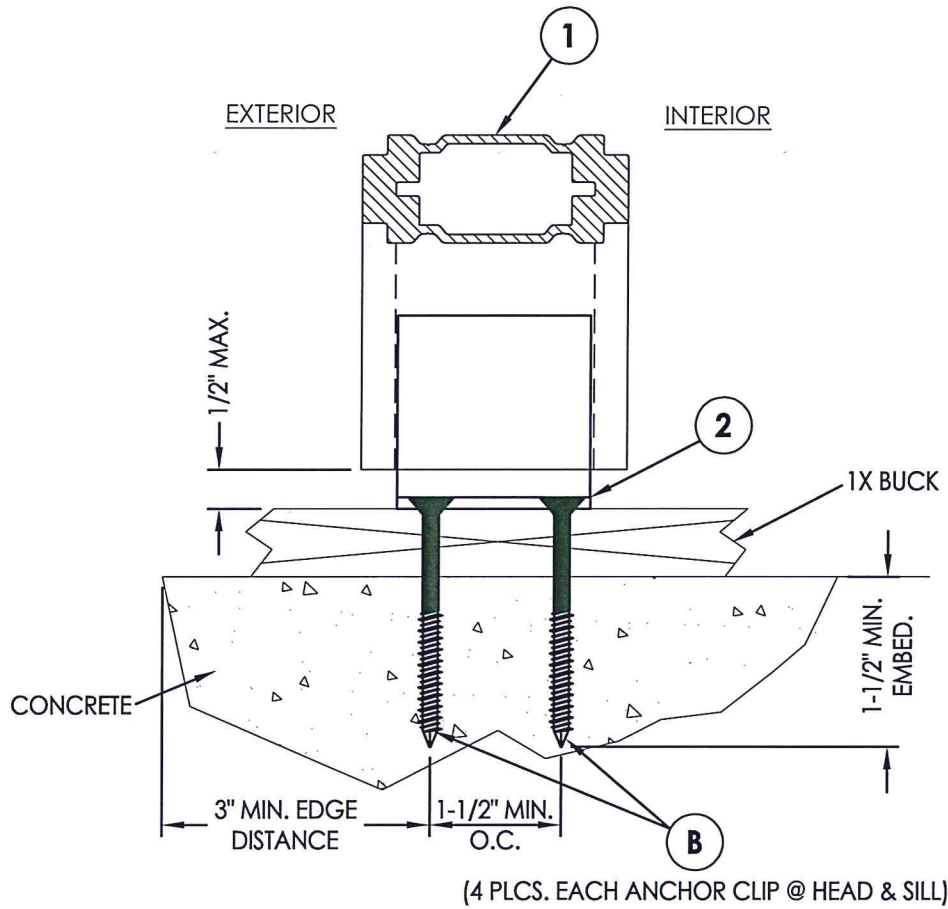
REVISIONS		DATE	BY
1	7/23/20	UPDATE TO 7TH ED (2020) FBC	LFS

DATE: 5/16/19
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-29644.1
SHEET 2 OF 3

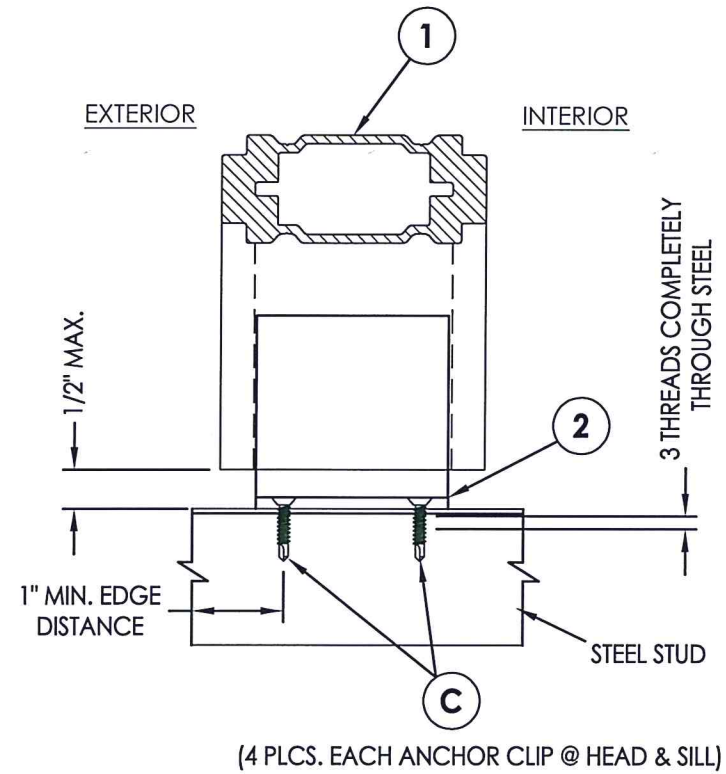
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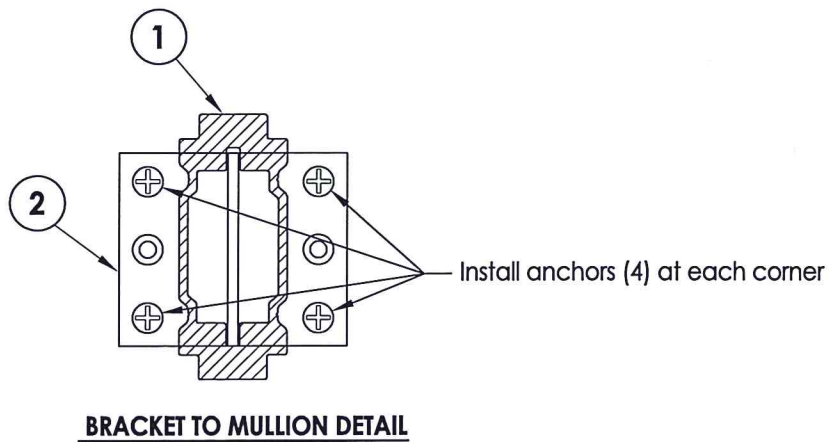
1
3 **HORIZONTAL CROSS SECTION**
MULLION ANCHOR BRACKET DETAIL
2X BUCK ANCHORING



2
3 **HORIZONTAL CROSS SECTION**
MULLION ANCHOR BRACKET DETAIL
1X BUCK ANCHORING SHOWN
(DIRECT TO MASONRY SIMILAR)

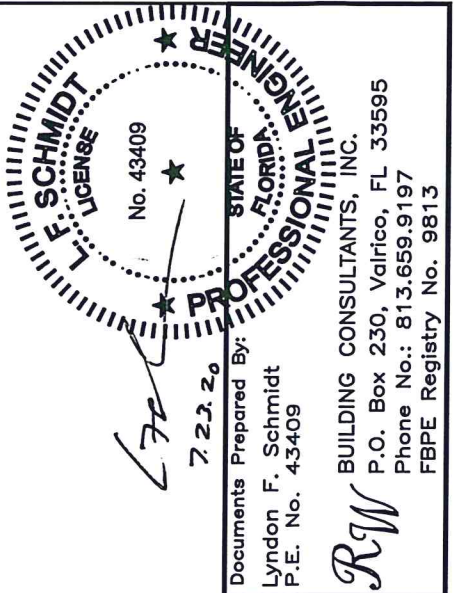


3
3 **HORIZONTAL CROSS SECTION**
MULLION ANCHOR BRACKET DETAIL
STEEL STUD ANCHORING



MULLION ANCHOR BRACKET ANCHOR SCHEDULE				
SUBSTRATE	ANCHOR	EMBEDMENT	EDGE DISTANCE	CENTER-TO-CENTER SPACING
A WOOD	#10 PFH WOOD SCREW 	1-3/8" MIN.	1" MIN.	1-1/2" MIN.
B CONCRETE	3/16" DIA. PFH ITW BUILDEX TAPCON® 	1-1/2" MIN.	3" MIN.	1-1/2" MIN.
C STEEL	10-14 HWH HILTI KWIK-FLEX® SELF-DRILLING SCREW 	A MIN. OF 3 THREADS SHALL PROTRUDE THROUGH THE STEEL SUBSTRATE	1" MIN.	1-1/2" MIN.

WOOD BUCKS (S.G. >= 0.55)
CONCRETE CONFORMING TO ACI 301 (3,000 PSI MIN.) OR HOLLOW BLOCK CONFORMING TO ASTM C90
STEEL CONFORMING TO ASTM A653, 16 GA., 0.060" MIN. THICKNESS (Fy = 33,000 PSI, Fu = 45,000 PSI)



PRODUCT:		5901 ALUMINUM MULLION	
PART OR ASSEMBLY:		MULLION ANCHORING DETAILS	
DATE:	5/16/19	SCALE:	N.T.S.
DWG. BY:	LFS	CHK. BY:	RW
DRAWING NO.:	FL-29644.1	SHEET 3 OF 3	
REVISIONS		NO. DATE	
		1 7/23/20 UPDATE TO 7TH ED (2020) FBC	
		LFS BY	