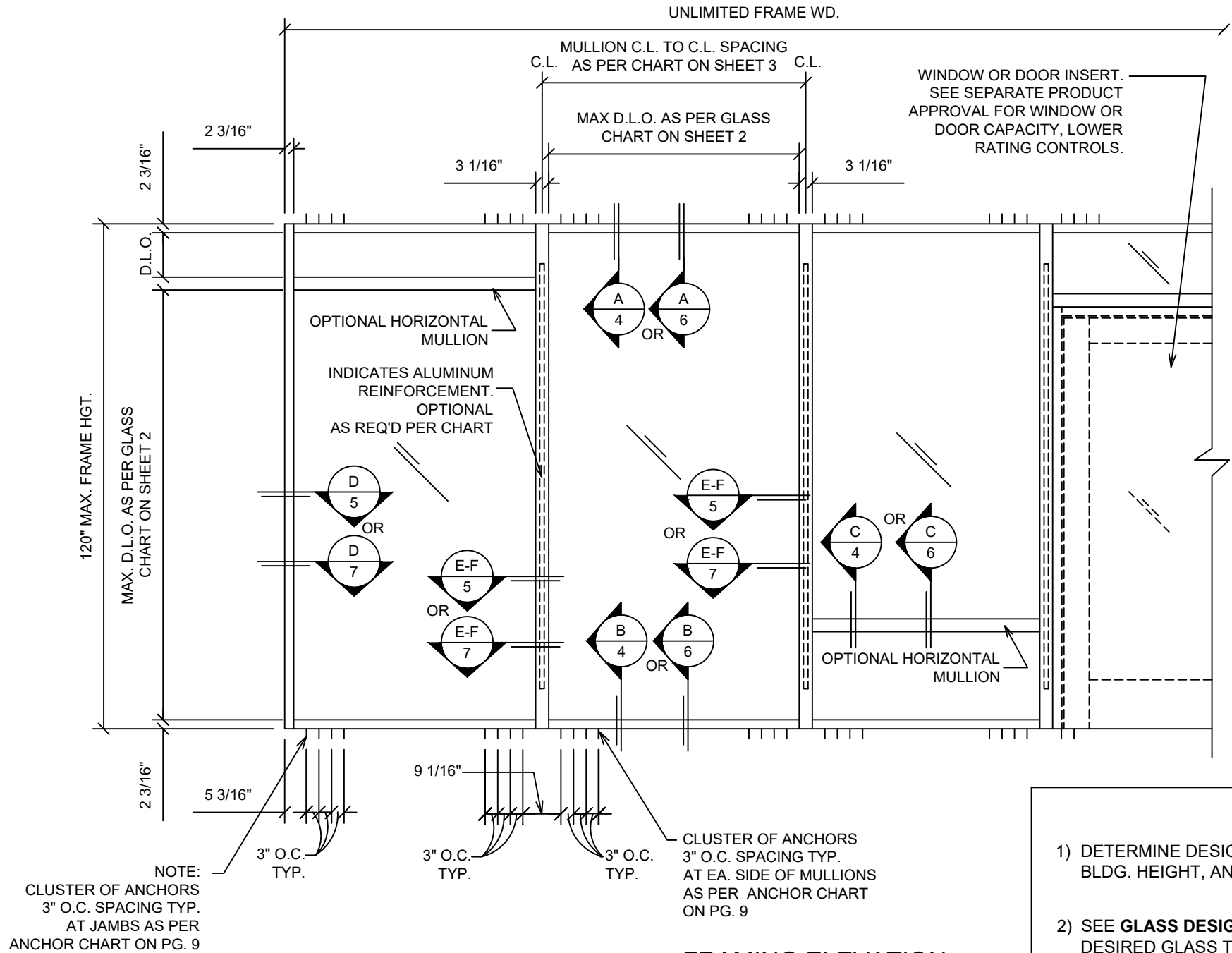


5200 SERIES ALUMINIUM FIXED WINDOW WALL SYSTEM (LARGE MISSILE IMPACT)



NOTE:
CLUSTER OF ANCHORS
3" O.C. SPACING TYP.
AT JAMBS AS PER
ANCHOR CHART ON PG. 9

FRAMING ELEVATION
VIEWED FROM EXTERIOR

GENERAL NOTES:

- 1) THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, BUILDING, 7TH EDITION (2020), INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) WOOD BUCK OR STRUCTURAL SUBSTRATE TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. BUCK OR FRAMING IS RESPONSIBILITY OF ARCHITECT/ENGINEER OF RECORD.
- 3) SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
- 4) ONE-THIRD (33%) INCREASE IN ALLOWABLE STRESS FOR WIND LOAD DESIGN NOT USED. INCREASE USED FOR ANCHORS INTO WOOD.
- 5) SYSTEM MAY BE INSTALLED IN THE VERTICAL OR HORIZONTAL ORIENTATION.
- 6) WINDOW MULLION 'J1' MAY BE USED AS A MULL BAR OTHER SYSTEM. SEE SEPARATE PRODUCT APPROVAL FOR SYSTEM CAPACITY, LOWER RATING CONTROLS.

INSTRUCTIONS:

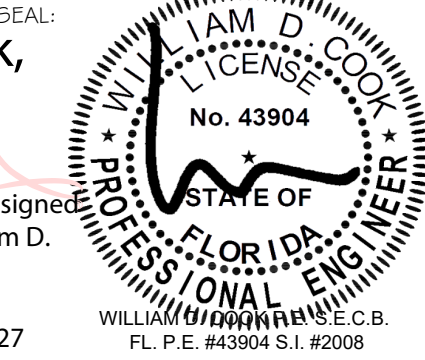
- 1) DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, AND WIND ZONE. USING APPLICABLE ASCE 7 STANDARDS.
- 2) SEE **GLASS DESIGN LOAD CHART** ON PAGE 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS TYPE AND SIZE. GLASS DESIGN LOAD CAPACITY SHOULD EQUAL OR EXCEED THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1.
- 3) CHECK MULLION CAPACITY FOR GIVEN SPACING (FRAME SIZE WIDTH "W") AND MULLION HEIGHT (FRAME SIZE LENGTH "L") USING THE **MULLION DESIGN LOAD CHART** ON PAGE 3. MULLION DESIGN LOAD CAPACITY SHOULD EQUAL OR EXCEED THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1.
- 4) USING THE **ANCHOR CLUSTER LOAD CHART** ON PAGE 9, SELECT ANCHOR OPTION WITH DESIGN LOAD RATING EQUAL TO OR GREATER THAN THE DESIGN LOAD REQUIREMENT DETERMINED IN STEP 1.
- 5) LOWEST DESIGN LOAD OBTAINED FROM STEPS 2, 3 AND 4 SHALL GOVERN FOR THE ENTIRE FRAME.



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SUITE #100
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TEL: (954) 772-4624 FAX: (954) 772-4634

William
D.
Cook,
PE



Digitally signed
by William D.
Cook, PE
Date:
2020.10.27
09:15:15 -0400

REVISIONS:			
NO.	DATE:	DESCRIPTION:	BY:
1	10/17/2019	CLARIFICATIONS, LOGO.	CMD
2	10/27/2020	CODE UPDATE	CMD

PROJECT:
**5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)**

PRODUCT APPROVAL NO:
FL27900.1

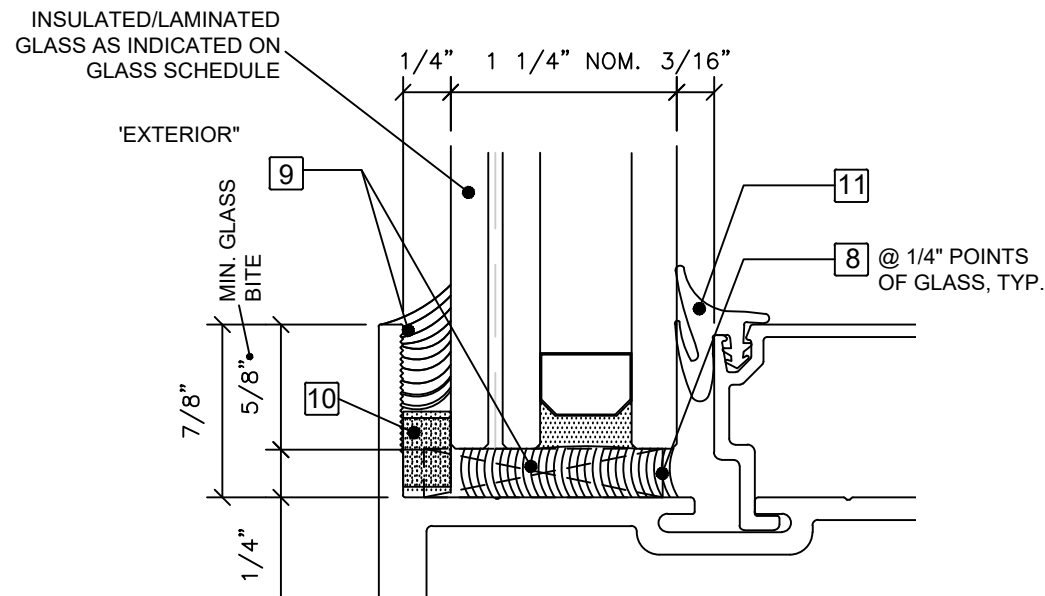
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DATE: 08/16/2018	DWG. NO. 5200_FIX-LMI
SCALE: N/A	SHEET NO. 1 OF 9

N:\docs\Astral\Products\5200 Series Window Wall System (LMI)\5200_FIX-LMI DWGS.dwg
10/27/2020
chris dov

GLASS DESIGN LOAD CHART - PSF

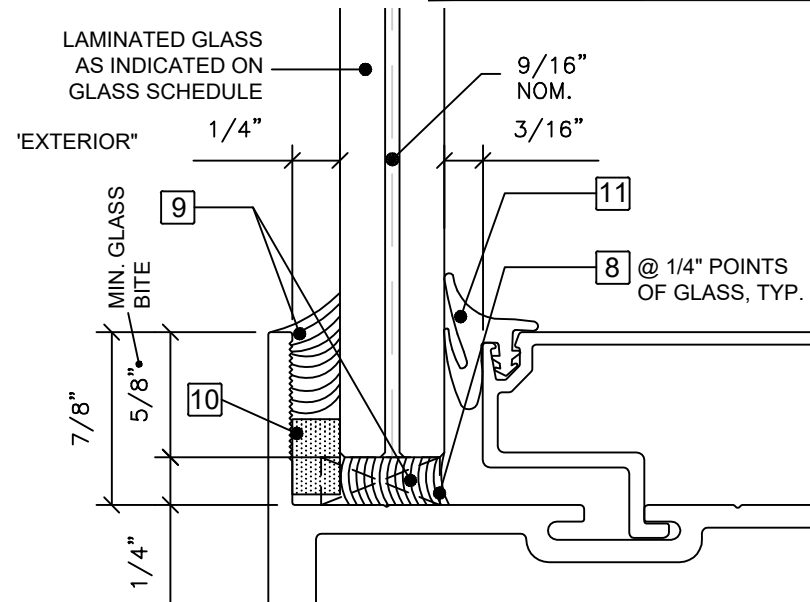
GLASS D.L.O.		LAMINATED				INSULATED/ LAMINATED			
		TYPE - "G1"		TYPE - "G2"		TYPE - "G3"		TYPE - "G4"	
WIDTH (W)	LENGTH (L)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
24"	72"	130	130	80	80	130	130	100	100
36"									
48"									
54"									
56 1/2"									
36"	84"								
48"									
54"									
56 1/2"									
40"						130	130		
44"	98 5/8"					125	125		
48"		130	130			115	115		
52"		129	129			109	109		
56 1/2"		120	120	80	80	106	106		
24"		100	100			100	100		
36"	103 11/16"								
40"									
44 1/2"		100	100			100	100	100	100

NOTE: GLASS LOADS BASED ON TESTING AND ASTM E1300-04



G3 & G4 TYPICAL INSULATED GLAZING DETAIL

11/4" NOM. THICK GLASS



G1 & G2 TYPICAL LAMINATED GLAZING DETAIL

9/16" NOM. THICK GLASS

WATER INFILTRATION MAX.
+ 22.5 PSF

GLAZING OPTIONS:

G1: 9/16" LAMINATED:

1/4" HEAT STRENGTHENED GLASS -
.075" VANCEVA COMPOSITE INTERLAYER -
1/4" HEAT STRENGTHENED GLASS.
(VANCEVA COMPOSITE INTERLAYER BY "EASTMAN CHEMICAL")

G2: 9/16" LAMINATED:

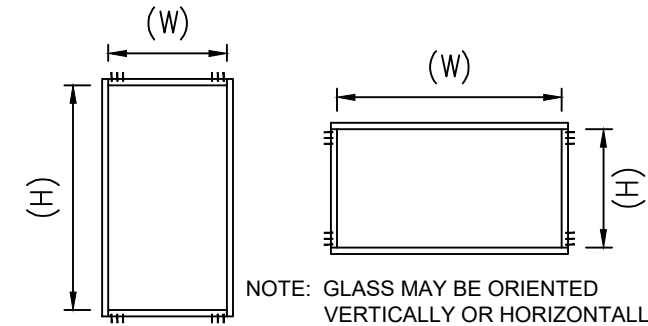
1/4" HEAT STRENGTHENED GLASS -
.090" PVB INTERLAYER-1/4" HEAT STRENGTHENED GLASS.
(PVB BUTACITE INTERLAYER BY "KURARAY AMERICA INC.")

G3: 1 1/4" INSULATED/LAMINATED GLASS:

1/4" HEAT STRENGTHENED GLASS -
0.075" VANCEVA COMPOSITE INTERLAYER -
3/16" HEAT STRENGTHENED GLASS-
1/2" STAINLESS STEEL SPACER -
3/16" FULLY TEMPERED GLASS
(VANCEVA COMPOSITE INTERLAYER BY "EASTMAN CHEMICAL")

G4: 1 1/4" INSULATED/LAMINATED GLASS:

3/16" HEAT STRENGTHENED GLASS -
0.075 VANCEVA COMPOSITE INTERLAYER -
3/16" HEAT STRENGTHENED GLASS-
1/2" STAINLESS STEEL SPACER -
1/4" FULLY TEMPERED GLASS
(VANCEVA COMPOSITE INTERLAYER BY "EASTMAN CHEMICAL")

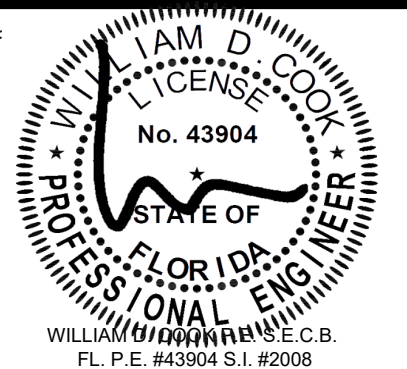


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SEAL:



REVISIONS:

NO.	DATE:	DESCRIPTION:	BY:
1	10/17/2019	CLARIFICATIONS, LOGO.	CMD
2	10/27/2020	CODE UPDATE	CMD

PROJECT:

5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)

PRODUCT APPROVAL NO:

FL27900.1

DRAWN BY:

MG

VERIFY BY:

DATE:

08/16/2018

DWG. NO.

5200_FIX-LMI

SCALE:

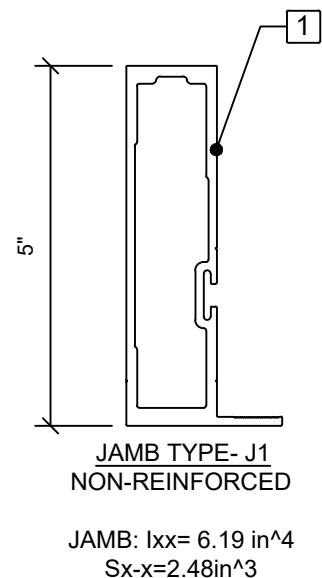
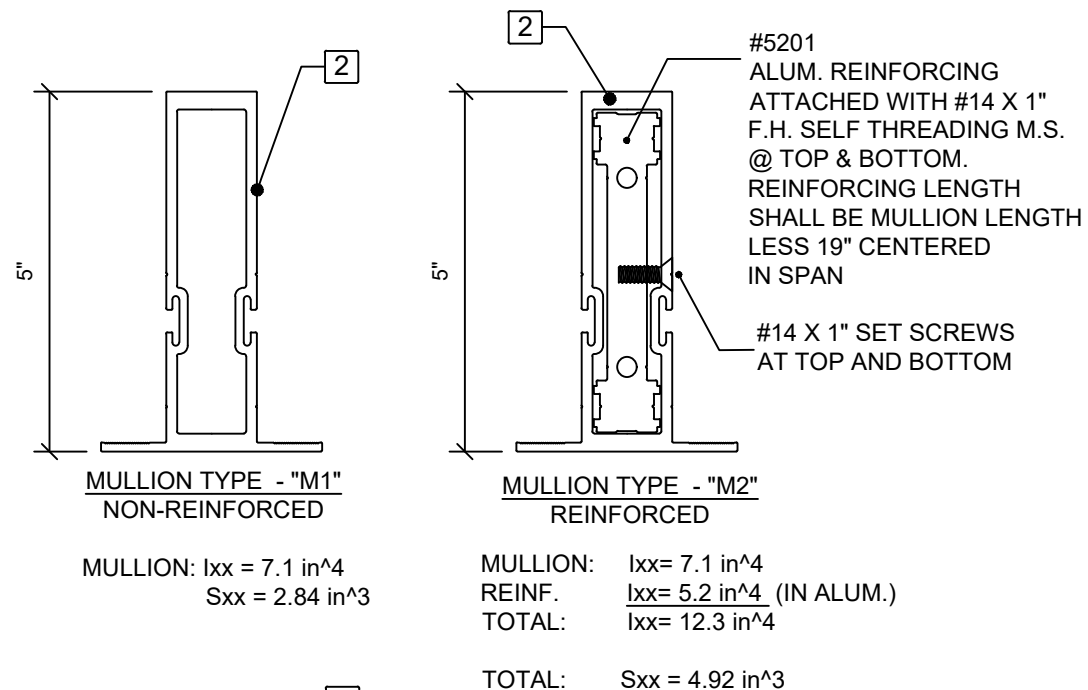
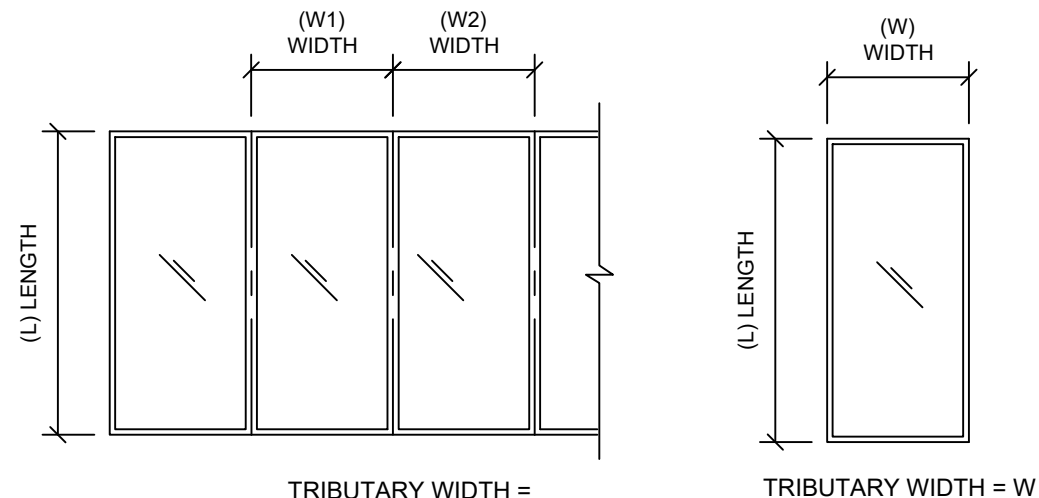
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SHEET NO.

2 OF 9

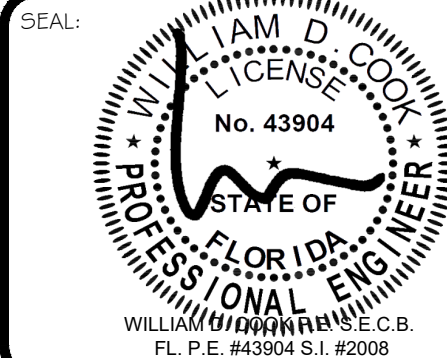
MULLION DESIGN LOAD CHART - PSF

FRAME SIZE		TYPE - "M1"		TYPE - "M2"		TYPE - "J1"	
		NON-REINFORCED		REINFORCED		NON-REINFORCED	
WIDTH (W)	LENGTH (L)	EXT (+)	INT (-)	EXT (+)	INT (-)	EXT (+)	INT (-)
36"	60"	100	100	130	130	130	130
48"							
54"							
60"							
36"	72"						
48"							
54"							
60"							
36"	84"						
48"							
54"							
60"							
36"	96"						
48"		100	100				
54"		92	92				
60"		82	82				
36"	103"	100	100				
48"		83	83	130	130		
54"		74	74	128	128		
60"		67	67	115	115		
36"	108"			130	130		
42"				130	130		
48"				125	125	130	130
54"				101	101	105	105
36"	120"			92	92	94	94
42"				121	121	130	130
48"				104	104	120	120
54"				91	91	105	105
54"				73	73	85	85
60"				66	66	77	77



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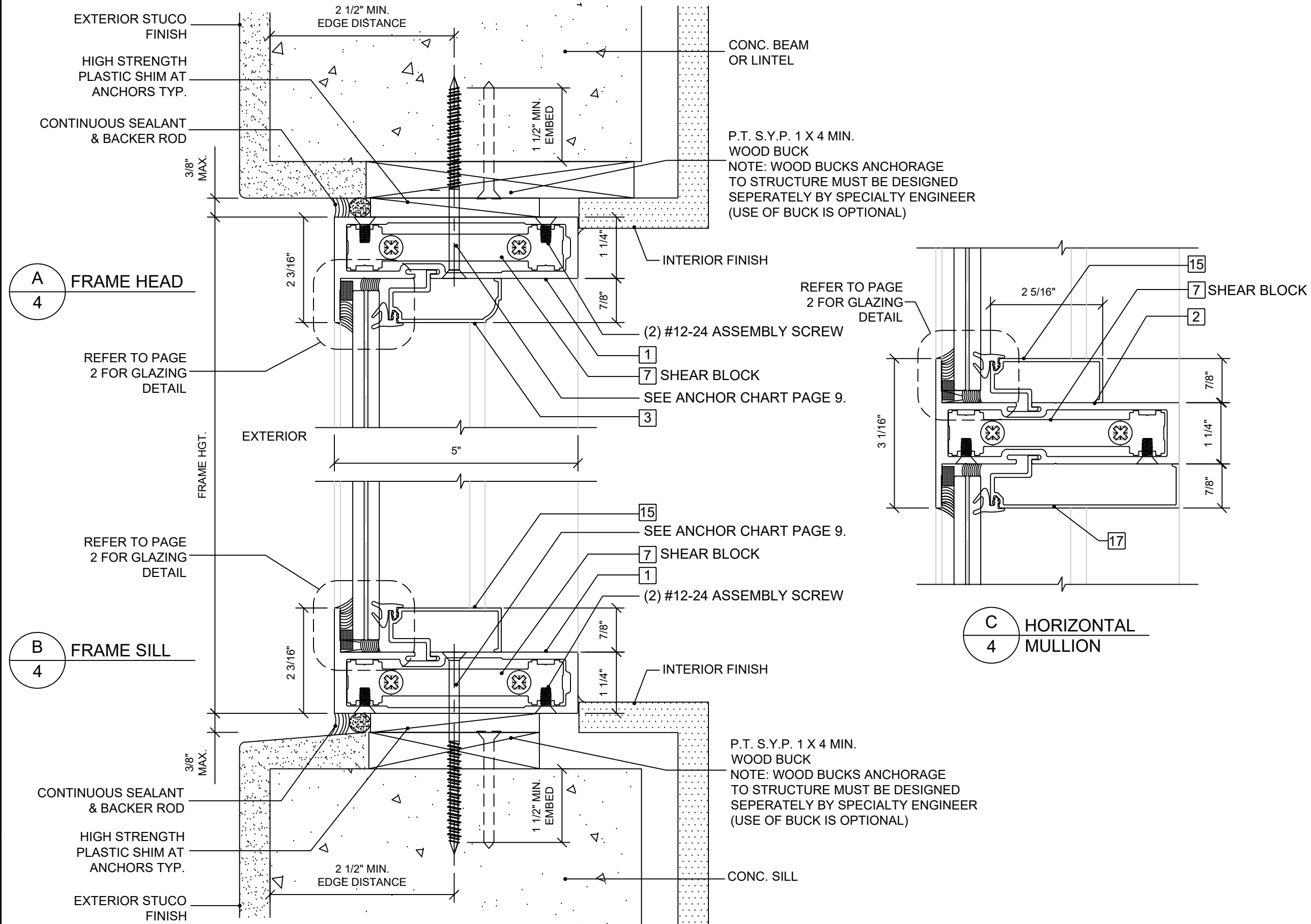
REVISIONS:			
NO.	DATE:	DESCRIPTION:	BY:
1	10/17/2019	CLARIFICATIONS. LOGO.	CMD
2	10/27/2020	CODE UPDATE	CMD

PROJECT:
 5200 SERIES ALUMINUM WINDOW WALL SYSTEM (L.M.I.)

PRODUCT APPROVAL NO:
 FL27900.1

DRAWN BY: MG	VERIFY BY:
DATE: 08/16/2018	DWG. NO. 5200_FIX-LMI
SCALE: N.T.S.	SHEET NO. 3 OF 9

N:\docs\Astral\Products\5200 Series Window Wall System (LMI)\5200_Series_Window_Wall_System (LMI)\5200_FIX-LMI DWGS.dwg
10/27/2020
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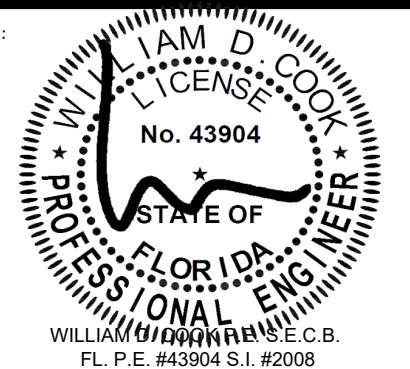


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REVISIONS:

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2	10/27/2020	CODE UPDATE	CMD

PROJECT:

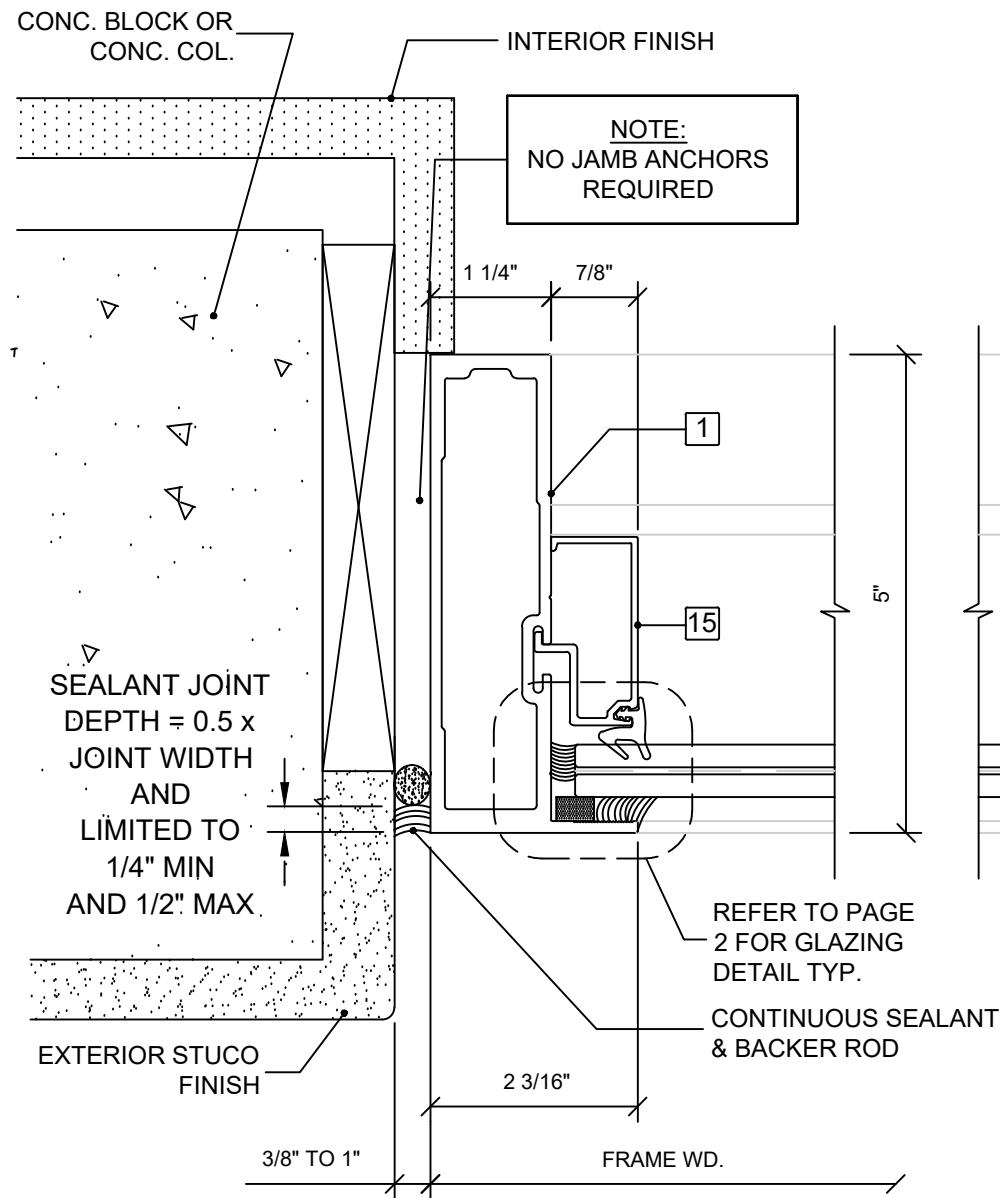
**5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)**

PRODUCT APPROVAL NO:

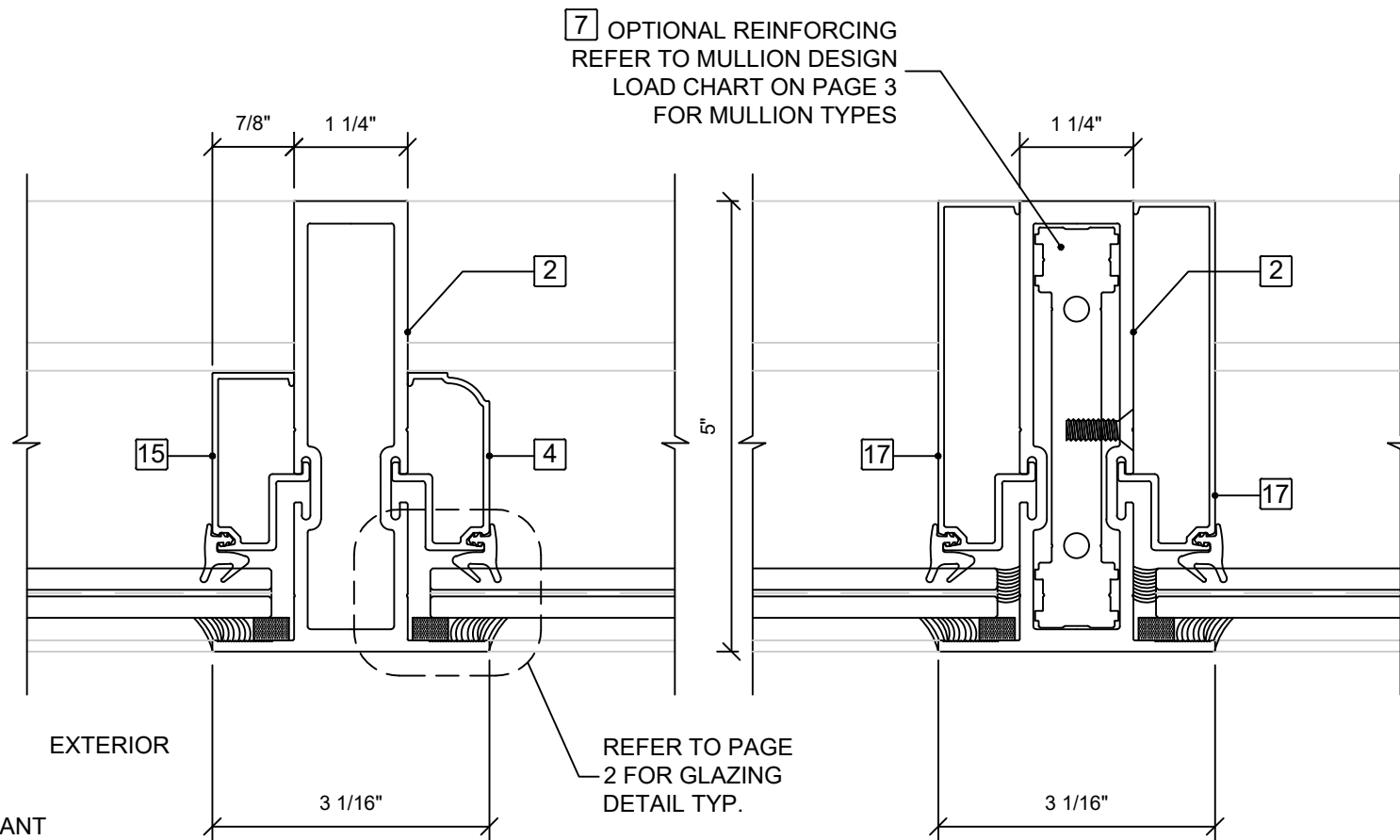
FL27900.1

DRAWN BY: MG	VERIFY BY:
DATE: 08/16/2018	DWG. NO. 5200_FIX-LMI
SCALE: 1/2"=1"	SHEET NO. 4 OF 9

N:\docs\Astral\Product Approval\5200 Series Window Wall System (LMI)\5200_FIX-LMI DWG.dwg 10/27/2020 chris dov



D
5 **FRAME JAMB**



E
5 **VERTICAL
MULLION W/O
REINFORCING**

F
5 **VERTICAL
MULLION W/
REINFORCING**

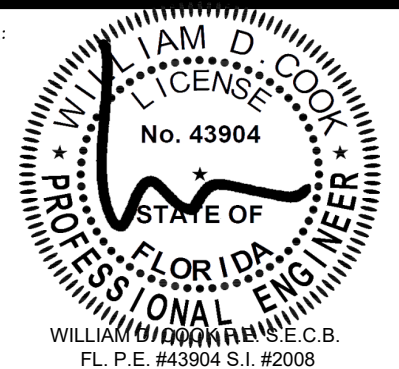


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REVISIONS:

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PROJECT:

**5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)**

PRODUCT APPROVAL NO:

FL27900.1

DRAWN BY:
MG

VERIFY BY:

DATE:
08/16/2018

DWG. NO.
5200_FIX-LMI

SCALE:
1/2"=1"

SHEET NO.
5 OF 9

JAMB SEALANT NOTES:

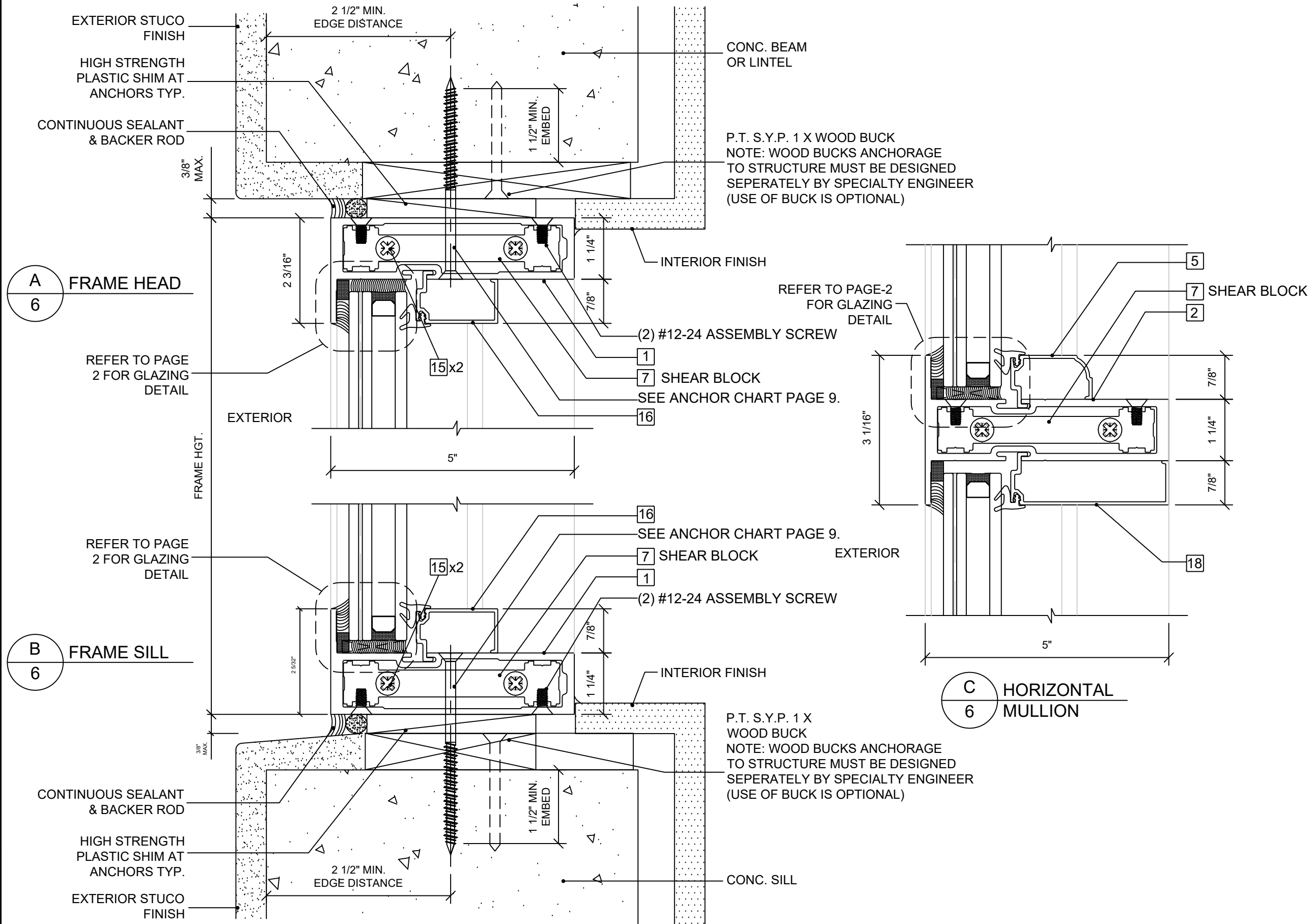
PERIMETER SEALANT OPTIONS:

TREMCO SPECTREM II
TREMCO DYMONIC
DOW-CORNING 795/790 SILICONE

ALTERNATE SEALANTS AND JAMB GAPS:

TO BE APPROVED BY DESIGN
PROFESSIONAL OF RECORD AND
SEALANT MANUFACTURER.

N:\docs\Astral\Products\5200 Series Window Wall System (LMI)\5200_Series_Window_Wall_System (LMI)\5200_FIX-LMI.dwg
10/27/2020
chris dov

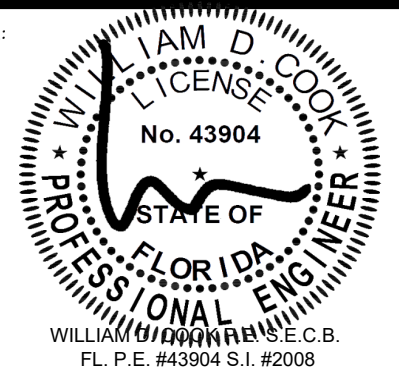


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2	10/27/2020	CODE UPDATE	CMD

PROJECT:

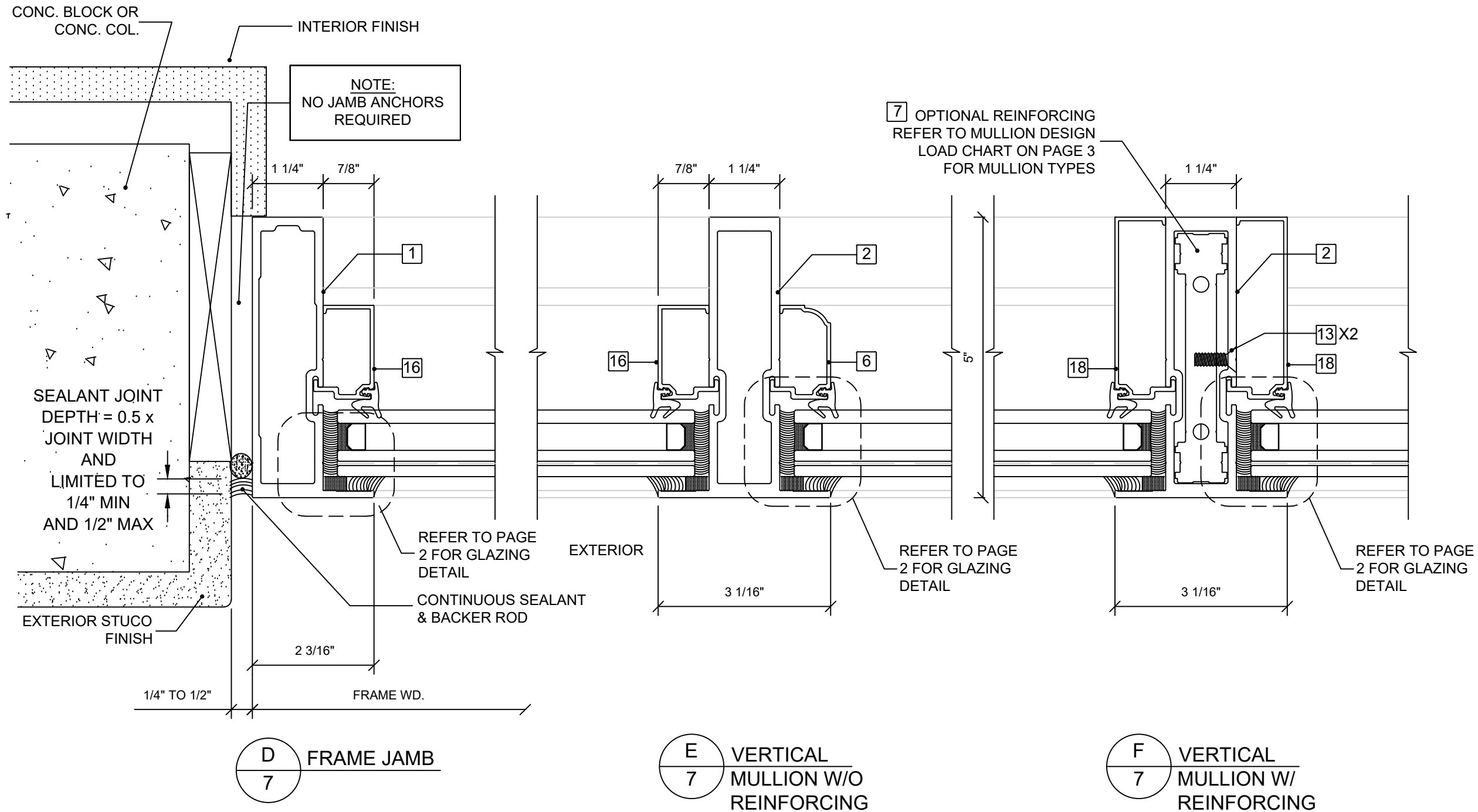
**5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)**

PRODUCT APPROVAL NO:

FL27900.1

DRAWN BY: MG	VERIFY BY:
DATE: 08/16/2018	DWG. NO. 5200_FIX-LMI
SCALE: 1/2"=1"	SHEET NO. 6 OF 9

N:\docs\Astral\Products\Approval\5200 Series Window Wall System (LMI)\5200_Series_Fix-LMI DWGS 2019-10-17\F127900.1--R3\5200_FIX-LMI DWGS.dwg
10/27/2020
chris dov

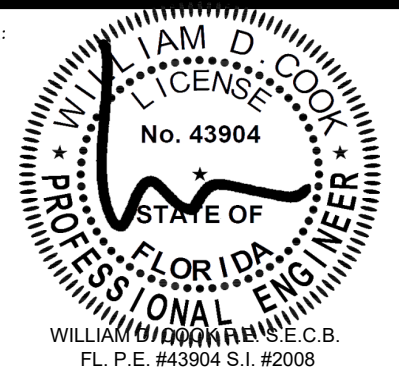


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PROJECT:

5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)

PRODUCT APPROVAL NO:

FL27900.1

DRAWN BY:

MG

VERIFY BY:

DATE:

08/16/2018

DWG. NO.

5200_FIX-LMI

SCALE:

1/2"=1"

SHEET NO.

7 OF 9

JAMB SEALANT NOTES:

PERIMETER SEALANT OPTIONS:

TREMCO SPECTREM II

TREMCO DYMONIC

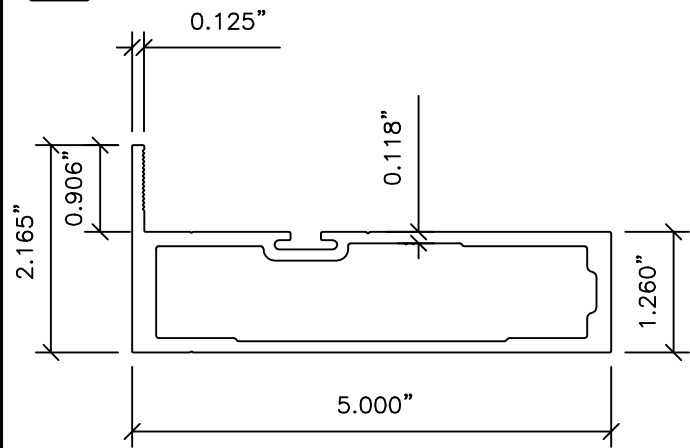
DOW-CORNING 795/790 SILICONE

ALTERNATE SEALANTS AND JAMB GAPS:

TO BE APPROVED BY DESIGN
PROFESSIONAL OF RECORD AND
SEALANT MANUFACTURER.

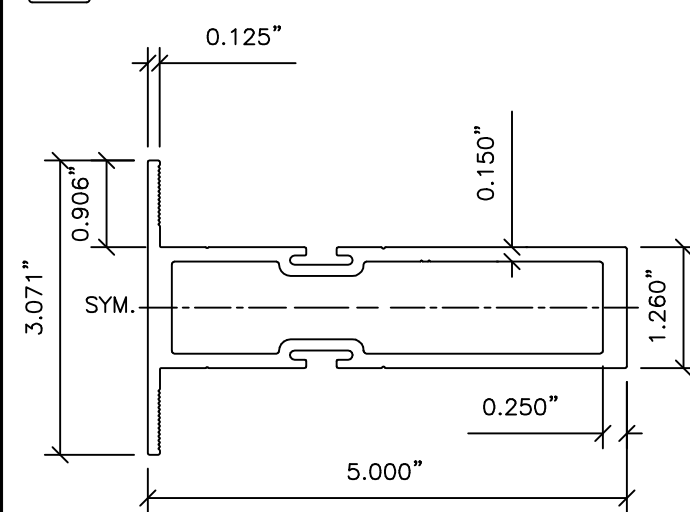
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10/27/2020
chris dov

1



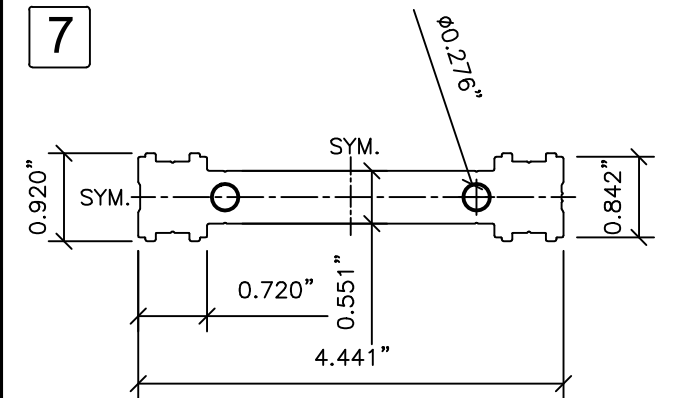
6063-T54
5210 - MAIN FRAME HEAD / SILL / JAMB

2



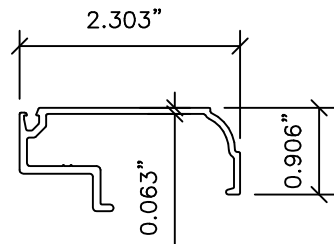
6063-T54
5215 - MULLION HORIZONTAL / VERTICAL

7



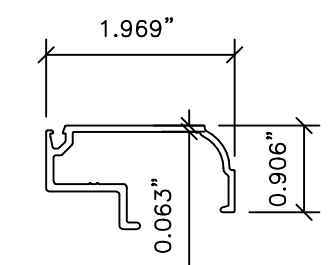
6063-T54
5201 - REINFORCEMENT / SHEAR BLOCK
SHEAR BLOCK LENGTH = 1.157" CUT
FROM REINFORCING EXTRUSION

3



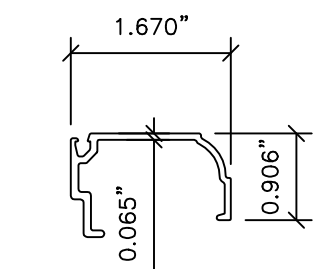
6063-T54
5206 - HORIZONTAL GLASS STOP

4



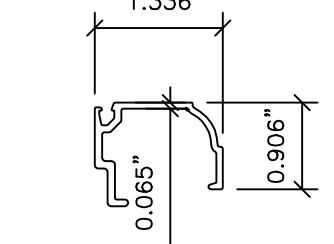
6063-T54
5205 - VERTICAL GLASS STOP

5



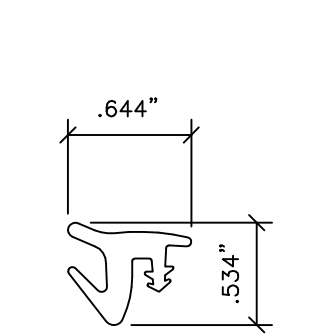
6063-T54
5206 HORIZONTAL GLASS STOP

6



6063-T54
5205 VERTICAL GLASS STOP

8

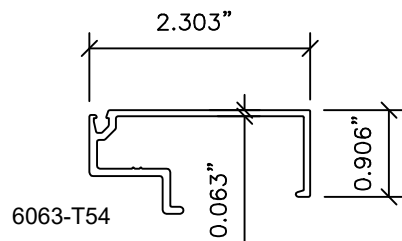


EPDM
GLAZING GASKET #TR-8429E

PARTS/MATERIALS LEGEND

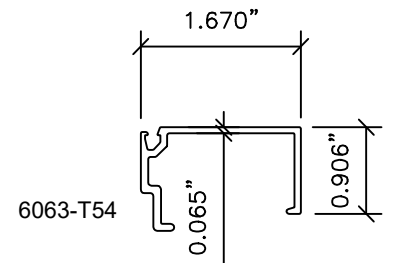
ITEM#	PART#	DESCRIPTION/MATERIAL
1	5210	MAIN FRAME (HEAD, SILL & JAMB) 6063-T54 ALUM.
2	5215	MAIN FRAME (VERTICAL/HORIZONTAL MULLION) 6063-T54 ALUM.
3	5206	GLASS STOP (HORIZONTAL 9/16" GLAZING) 6063-T54 ALUM.
4	5205	GLASS STOP (VERTICAL 9/16" GLAZING) 6063-T54 ALUM.
5	5206	GLASS STOP (HORIZONTAL 1 1/4" GLAZING) 6063-T54 ALUM.
6	5205	GLASS STOP (VERTICAL 1 1/4" GLAZING) 6063-T54 ALUM.
7	5201	SHEAR BLOCK/REINFORCING 6063-T54 ALUM.
8	TR-8429E	SETTING BLOCK EPDM RUBBER 70 SHORE A DUROMETER
9	N/A	STRUCTURAL SILICONE (GE SCS 2000 OR DOW-CORING 995)
10	V2100	FOAM GLAZING TAPE NORTON 1/4" X 3/8"
11	5200-G-103	GLAZING GASKET (INTERIOR) EPDM RUBBER 65 SHORE A DUROMETER
12	N/A	#12-24x3/4" LG. ASSEMBLY SCREW
13	N/A	NOT USED
14	5200-G-103	1/4"-20x1-1/2" LG. SHEAR BLOCK SCREW
15	5207	PERIMETER GLASS STOP FOR 9/16" GLASS 6063-T54 ALUM.
16	5208	PERIMETER GLASS STOP FOR 1 1/4" GLASS 6063-T54 ALUM.
17	5217	PERIMETER GLASS STOP FOR 9/16" GLASS 6063-T54 ALUM.
18	5218	PERIMETER GLASS STOP FOR 1 1/4" GLASS 6063-T54 ALUM.

15



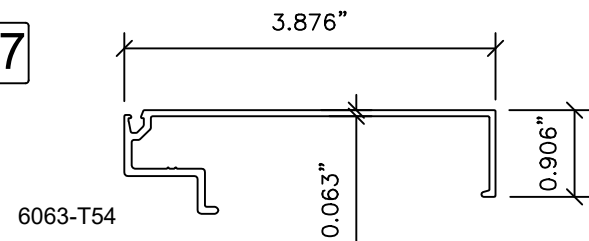
6063-T54
5207 - PERIMETER GLASS STOP
FOR 9/16" GLASS

16



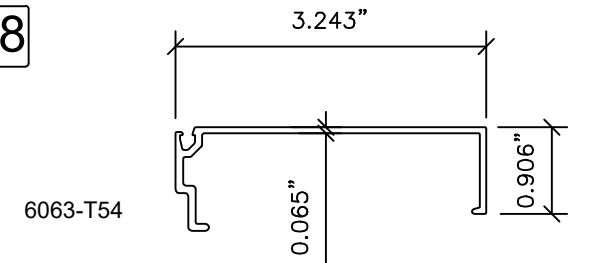
6063-T54
5208 - PERIMETER GLASS STOP
FOR 1 1/4" GLASS

17



6063-T54
5217 - PERIMETER GLASS STOP FOR 9/16" GLASS

18



6063-T54
5218 - PERIMETER GLASS STOP FOR 1 1/4" GLASS

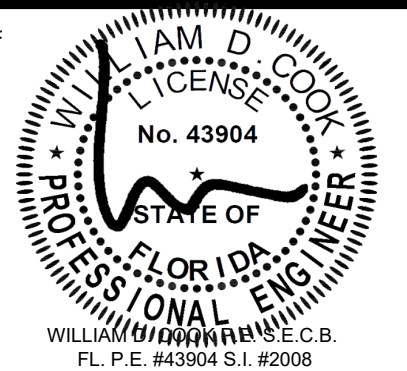


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ENGINEER:

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SEAL:



REVISIONS:

NO.	DATE:	DESCRIPTION:	BY:
1	10/17/2019	CLARIFICATIONS, LOGO.	CMD
2	10/27/2020	CODE UPDATE	CMD

PROJECT:

**5200 SERIES ALUMINUM
WINDOW WALL SYSTEM (L.M.I.)**

PRODUCT APPROVAL NO:

FL27900.1

DRAWN BY: MG	VERIFY BY:
DATE: 08/16/2018	DWG. NO. 5200_FIX-LMI
SCALE: 1:2	SHEET NO. 8 OF 9

N:\docs\Astral\Products\5200 Series Window Wall System (LMI)\5200_Series_Window_Wall_System (LMI)\5200_FIX-LMI DWGS.dwg
10/27/2020
chris dov

DESIGN LOAD RATING	ANCHOR CLUSTER LOAD CHART - PSF				
	FRAME SIZE		TYPE - "A"	TYPE - "B"	TYPE - "C"
	SUBSTRATE		CONCRETE	METAL	WOOD
	WIDTH (W)	LENGTH (L)	(QTY.)	(QTY.)	(QTY.)
P= +/- 130 PSF	40"	120"	10	10	18
	48"		12	12	22
	40"	108"	8	8	18
	48"		10	10	20
	40"	103"	10	10	20
	48"		12	10	24
	40"	96"	8	8	18
	48"		10	10	22
	40"	84"	8	8	16
	48"		10	10	20
P= +/- 115 PSF	40"	120"	8	8	16
	48"		10	10	20
	40"	108"	8	8	14
	48"		8	8	18
	48"	103"	8	8	16
	60"		10	10	22
	48"	96"	8	8	16
	60"		10	10	20
	48"	84"	8	8	14
	60"		8	8	18
P= +/- 100 PSF	36"	120"	6	6	12
	40"		8	8	16
	48"		8	8	18
	36"	108"	6	6	14
	40"		6	6	14
	48"		8	8	16
	40"	103"	6	6	12
	48"		8	8	14
	60"		10	10	18
	48"	96"	6	6	12
	48"		8	8	14
	60"		8	8	18
	40"	84"	6	6	10
	48"		6	6	12
	60"		8	8	14

ANCHOR QUANTITIES = TOTAL NUMBER OF ANCHORS.
INSTALL HALF ON EACH SIDE OF MULLION AS SHOWN ON
ELEV. SHEET 1.
JAMB MEMBERS RECIEVE HALF OF TOTAL NUMBER.

ANCHOR TYPE SCHEDULE:

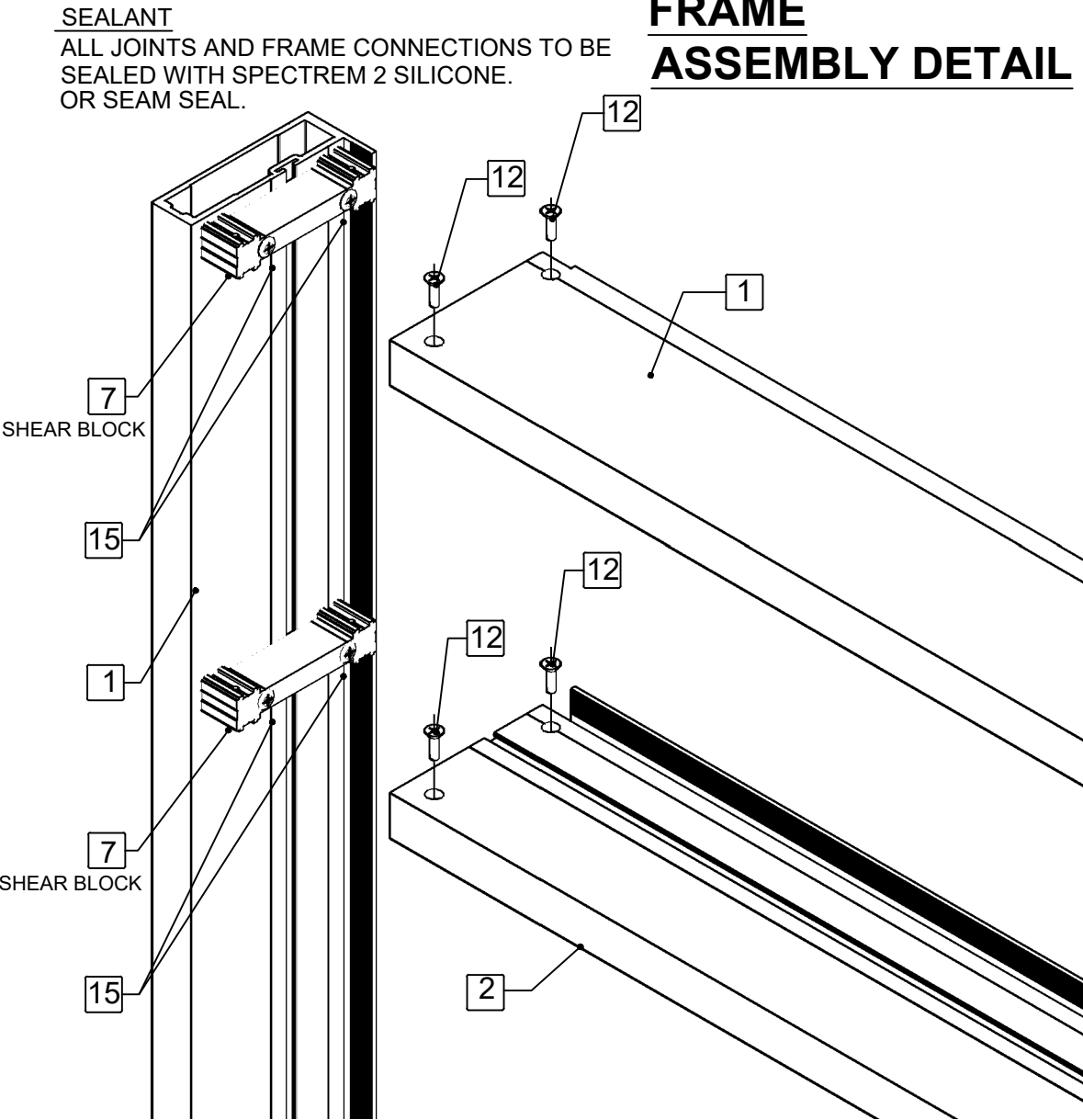
THRU 1x BUCK OR DIRECTLY INTO GROUT FILLED CMU,
OR 2700 PSI CONCRETE SUBSTRATE.

(A) USE: 1/4" DIA. RAWL TAPPER OR 1/4" DIA. HILTI KWIK CON II.
EMBED 1 1/2" MIN. BEYOND STUCCO. Fu min=120 Ksi
MIN. EDGE DIST= 2 1/2". MIN. SPACING = 2 1/4". Fy min= 92 Ksi

INTO 1/8" MIN. STEEL (A36) OR ALUMINUM (MIN. 6063-T5).
(B) USE: #14 ELCO DRILL-FLEX STRUCTURAL SELF DRILLING
FASTENER. GRADE -5

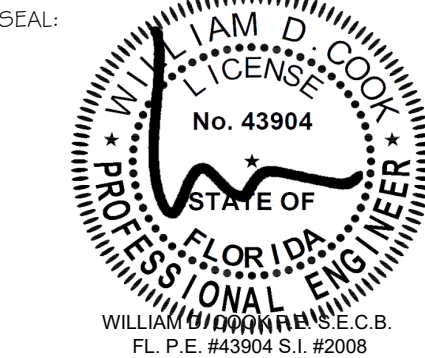
INTO NO-2 SYP WOOD FRAMING:
(C) USE: #14 SMS, WOOD SCREW OR TAPPER. Fu min=74 Ksi
EMBED 3/4" INTO BASE MATERIAL. Fy min= 57 Ksi
MIN. EDGE DIST= 1". MIN. SPACING = 1 1/2".

NOTE: ALL ANCHORS SHALL BE SHIMMED WITH HARD PLASTIC SHIMS.
USE SHIMS WHERE GAP IS GREATER THAN 1/16".



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