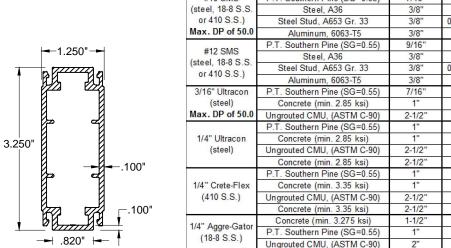
GENERAL NOTES, UNCLIPPED 5400/5500 MULLIONS:

- 1) DETAILS SHOWN ARE FOR THE MULLION ONLY, ANCHORS SHOWN ARE IN ADDITION TO ANY ANCHORS REQUIRED FOR THE FENESTRATION PRODUCT INSTALLATION. TYPICAL APPLICATIONS ARE SHOWN. EACH SITUATION IS UNIQUE AND SHOULD BE EVALUATED BY AN EXPERIENCED INSTALLER FOR THE BEST INSTALLATION METHOD. OPTIONAL 1X OR 2X WOOD BUCKS IF USED, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS AND ARE TO BE DESIGNED BY OTHERS.
- 2) THE TYPE AND NUMBER OF ANCHORS IS CRITICAL TO THE STRUCTURAL PERFORMANCE OF THE MULLED UNITS.
- 3) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. MULLIONS ARE CALCULATED TO DEFLECT NO MORE THAN L/180. 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.
- 4) PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) USE THE COMBINED WIDTH OR HEIGHT OF ONLY TWO ADJACENT FENESTRATION PRODUCTS TO DETERMINE PRESSURES AND ANCHORAGE FOR THE COMMON MULLION, SEE EXAMPLES ON THIS SHEET. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME WHEN USING THE DESIGN PRESSURE AND ANCHORAGE TABLES. THE LOWEST DESIGN PRESSURE OF MULTIPLE MULLIONS OR FENESTRATION PRODUCTS SHALL APPLY.
- 6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE 2006 TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE.
- 7) MULLIONS HAVE BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE, AND ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS. IMPACT APPLICATIONS ARE LIMITED TO WINDZONES 1, 2 & 3 AS DEFINED BY ASTM E1996, MULLIONS ARE ONLY TO BE USED WITH PGT-APPROVED FENESTRATION PRODUCTS HAVING CURRENT APPROVALS.
- 8) QUANTITY OF UNITS WITHIN A MULTIPLE MULLED ASSEMBLY IS UNLIMITED PROVIDED THAT THE SPAN AND OPENING WIDTH/HEIGHT OF EACH INDIVIDUAL MULLION COMPLIES WITH THE REQUIREMENTS OF THIS APPROVAL.



1.25" X 3.25" X .100'

MULLION 6005-T5 ALUMINUM

TABLE 1B: ANCHORS INSTALLED THROUGH FRAME

Min. Edge

Distance

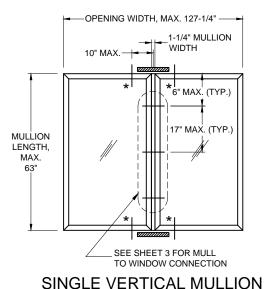
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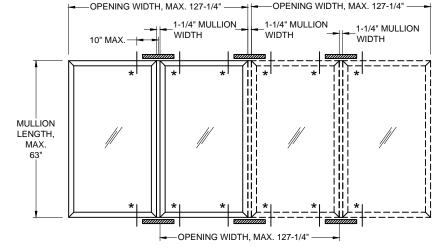
#10 SMS	P.1. Southern Pine (SG=0.55)	//16"	1-3/8"
(steel, 18-8 S.S.	Steel, A36	3/8"	0.050"
or 410 S.S.)	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
Max. DP of 50.0	Aluminum, 6063-T5	3/8"	0.050"
#40 0140	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
#12 SMS	Steel, A36	3/8"	0.050"
(steel, 18-8 S.S. or 410 S.S.)	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
01 410 3.3.)	Aluminum, 6063-T5	3/8"	0.063"
3/16" Ultracon	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
(steel)	Concrete (min. 2.85 ksi)	1"	1-3/8"
Max. DP of 50.0	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
1/4" Ultracon	Concrete (min. 2.85 ksi)	1"	1-3/4"
(steel)	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
1/4" Crete-Flex	Concrete (min. 3.35 ksi)	1"	1-3/4"
(410 S.S.)	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
1/4" Aggra Cator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
1/4" Aggre-Gator (18-8 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
(10-0 3.3.)			1

NOTES FOR UNCLIPPED MULLIONS/FRAME ASSEMBLY TUBE:

- 1) NOT TO BE USED WITH SINGLE OR DOUBLE HUNG WINDOWS.
- 2) NOT TO BE USED IN CROSS OR TEE CONFIGURATIONS, SEE NEXT SHEET.

USE THIS SHEET FOR UNCLIPPED MULLIONS





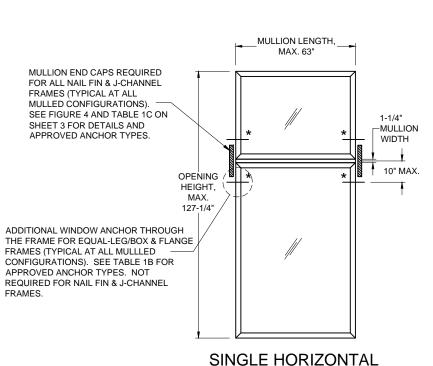
MULTIPLE VERTICAL MULLIONS

MULLION LENGTH, MAX. 63"

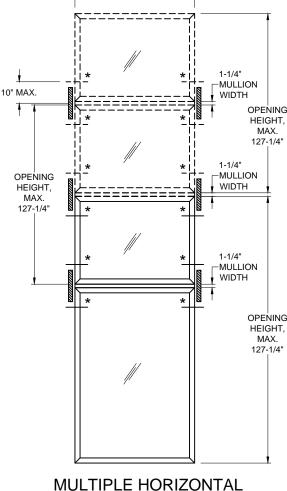
TABLE 1A

		Mullion Capacity Table (lbs/ft	2)
1.25 x 3.25 x		Opening Width or Height up	to 127-1/4"
.100 Alum.		All Loading Types	
Tube Mullion	Mullion Capacity	Through-Frame Anchorage*	Through-Nail Fin Anchorage
Mullion Length up to 63"	+70.0 lbs/ft² -70.0 lbs/ft²	Install 4 additional window anchors through the window frames (2 total per mullion end), each at 10" max. from mullion/frame assembly tube centerline. See figures on this sheet.	Install 4 additional nail fin anchors through the mullion caps (2 total per mullion cap), one on each side of the mullion/frame assembly tube centerline. See figure 4 on sheet 3.

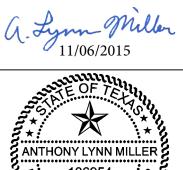
SEE CAR 190-1078 FOR CERTIFICATION.



MULLION



MULLIONS



MULLIONS

5400/5500 SERIES ALUMINUM TUBE

MULLIONS IDrawing N

PED

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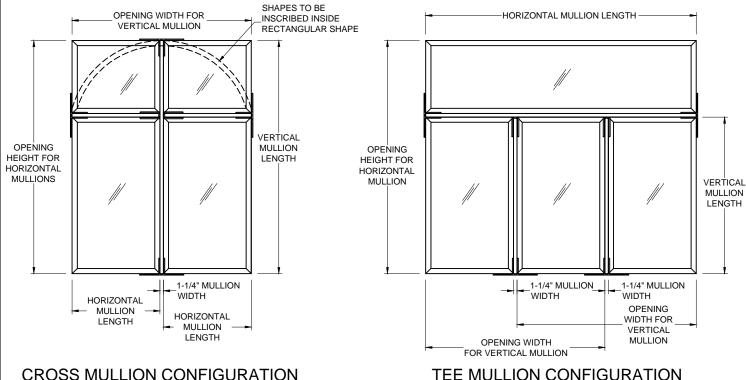
ROSOWSKI

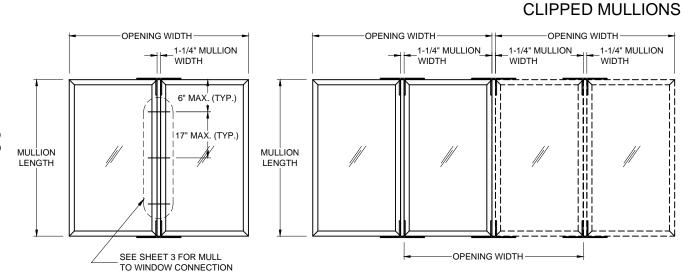
5000MUL



GENERAL NOTES, CLIPPED 5400/5500 MULLIONS:

- 1) DETAILS SHOWN ARE FOR THE MULLION ONLY, ANCHORS SHOWN ARE IN ADDITION TO ANY ANCHORS REQUIRED FOR THE FENESTRATION PRODUCT INSTALLATION. TYPICAL APPLICATIONS ARE SHOWN. EACH SITUATION IS UNIQUE AND SHOULD BE EVALUATED BY AN EXPERIENCED INSTALLER FOR THE BEST INSTALLATION METHOD. OPTIONAL 1X OR 2X WOOD BUCKS IF USED. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS AND ARE TO BE DESIGNED BY OTHERS.
- 2) THE TYPE AND NUMBER OF ANCHORS IS CRITICAL TO THE STRUCTURAL PERFORMANCE OF THE MULLED UNITS. MULLIONS HAVE BEEN TESTED AS "FREE-FLOATING" AND DO NOT NEED TO BE DIRECTLY ATTACHED TO THE MULLION CLIPS, BUT SHALL NOT HAVE A GAP OF MORE THAN 1/4" FROM THE CLIP.
- 3) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. MULLIONS ARE CALCULATED TO DEFLECT NO MORE THAN L/180. 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.
- 4) PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) USE THE COMBINED WIDTH OR HEIGHT OF ONLY TWO ADJACENT FENESTRATION PRODUCTS TO DETERMINE PRESSURES AND ANCHORAGE FOR THE COMMON MULLION, SEE EXAMPLES ON THIS SHEET. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME WHEN USING THE DESIGN PRESSURE AND ANCHORAGE TABLES. THE LOWEST DESIGN PRESSURE OF MULTIPLE MULLIONS OR FENESTRATION PRODUCTS SHALL APPLY.
- 6) WHEN FINDING YOUR SIZE IN THE MULLION TABLES, ALWAYS ROUND UP TO THE NEXT SIZE SHOWN ON THE TABLE(S).
- 7) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE 2006 TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE.
- 8) MULLIONS AND CLIPS HAVE BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE, AND ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS. IMPACT APPLICATIONS ARE LIMITED TO WINDZONES 1, 2 & 3 AS DEFINED BY ASTM E1996. MULLIONS ARE ONLY TO BE USED WITH PGT-APPROVED FENESTRATION PRODUCTS HAVING CURRENT APPROVALS.
- 9) QUANTITY OF UNITS WITHIN A MULTIPLE MULLED ASSEMBLY IS UNLIMITED PROVIDED THAT THE SPAN AND OPENING WIDTH/HEIGHT OF EACH INDIVIDUAL MULLION COMPLIES WITH THE REQUIREMENTS OF THIS APPROVAL



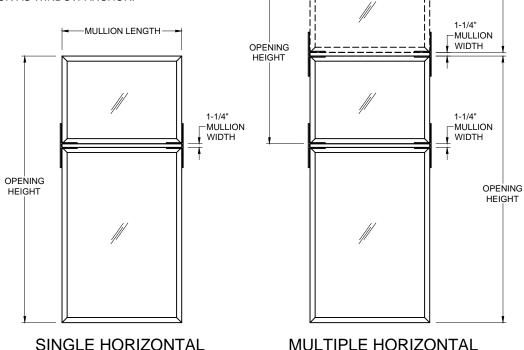


SINGLE VERTICAL MULLION

NOTES FOR CLIPPED MULLIONS:

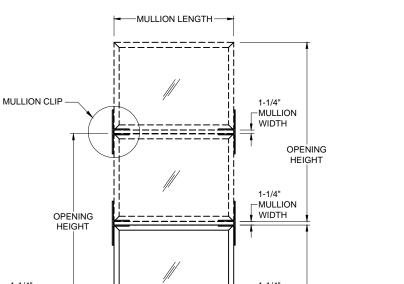
- 1) FOR MAXIMUM SIZES, SEE TABLES 2A-4A.
- 2) SEE SHEET 9 FOR INSTRUCTIONS ON USING TABLES 2A-4A.
- 3) CLIPPED MULLIONS MAY BE USED FOR ALL WINDOW TYPES. FOR CLIP ANCHORAGE, USE THE SAME ANCHOR AS WINDOW ANCHOR.

MULLION



MULTIPLE VERTICAL MULLIONS

USE THIS SHEET FOR



MULLIONS



5400/5500 SERIES ALUMINUM TUBE MULLIONS

MULL wing No.

CLIPPE

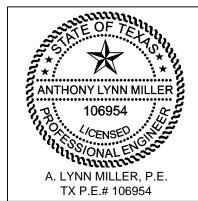
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TEE MULLION CONFIGURATION

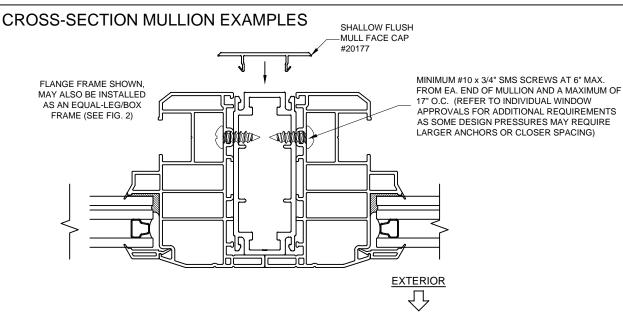


FIG. 1: 1.25" X 3.25" X .100" MULLION & FACE CAPS (CLIPPED OR UNCLIPPED MULLION INSTALLATION)

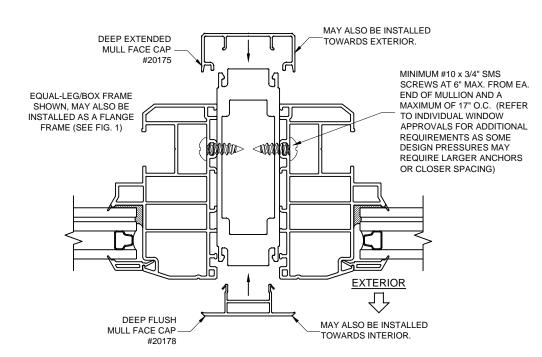
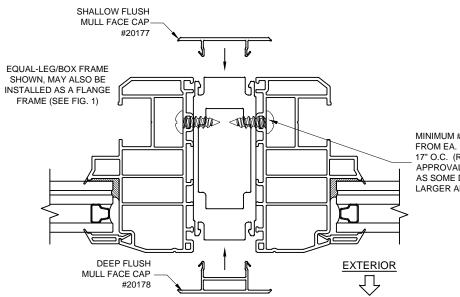


FIG. 3: 1.25" X 3.94" X .624" MULLION & FACE CAPS (CLIPPED MULLION INSTALLATION ONLY)

NOTES FOR MULLION TO WINDOW ATTACHMENT:

- 1) RECOMMENDED ANCHOR LENGTH = MIN. 3/4"
- 2) USE ANCHOR TYPE AND SPACING AS PER THE WINDOW'S APPROVAL.
- 3) PICTURE WINDOW WITH VERTICAL MULLION SHOWN, ALL WINDOW TYPES AND MULLION ORIENTATIONS APPLICABLE.
- 4) IF APPLICABLE, NAIL FIN AND/OR FLANGE MAY BE REMOVED FROM THE WINDOW FRAME MEMBER BEING MULLED.



USE THIS SHEET FOR **CLIPPED & UNCLIPPED MULLIONS**

MINIMUM #10 x 3/4" SMS SCREWS AT 6" MAX. FROM EA. END OF MULLION AND A MAXIMUM OF 17" O.C. (REFER TO INDIVIDUAL WINDOW APPROVALS FOR ADDITIONAL REQUIREMENTS AS SOME DESIGN PRESSURES MAY REQUIRE LARGER ANCHORS OR CLOSER SPACING)

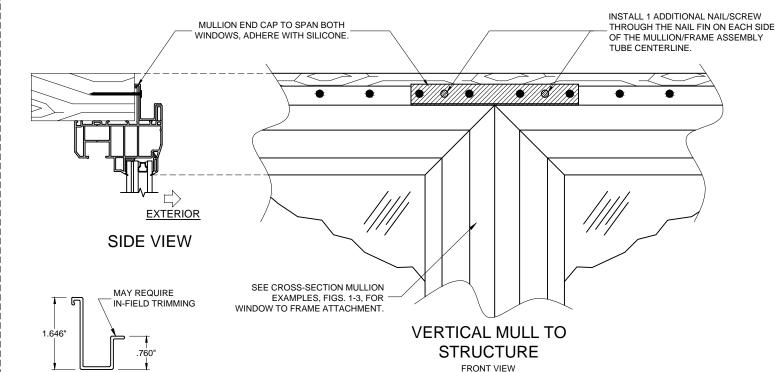


FIG. 4: MULLION END CAP EXAMPLE

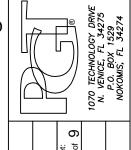
.759"

TABLE 1C: ANCHORS INSTALLED THROUGH NAILLING FIN

MULLION END CAP	Anchor	Substrate	Min. Edge Distance	Min. Embedment
2X SIDE VIEW	2-1/2" x .131" Common Nail Max. DP of 50.0	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
	2-1/2" x .131" Ring-shank Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
	2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
		P.T. Southern Pine (SG=.55)	3/4"	1-3/8"
	#10 SMS (steel, 18-8 S.S.	Aluminum, 6063-T5	3/8"	0.050"
	or 410 S.S.)	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
	53 6.6.,	Steel, A36	3/8"	0.050"

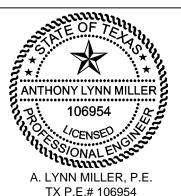
NOTES FOR MULLION END CAP:

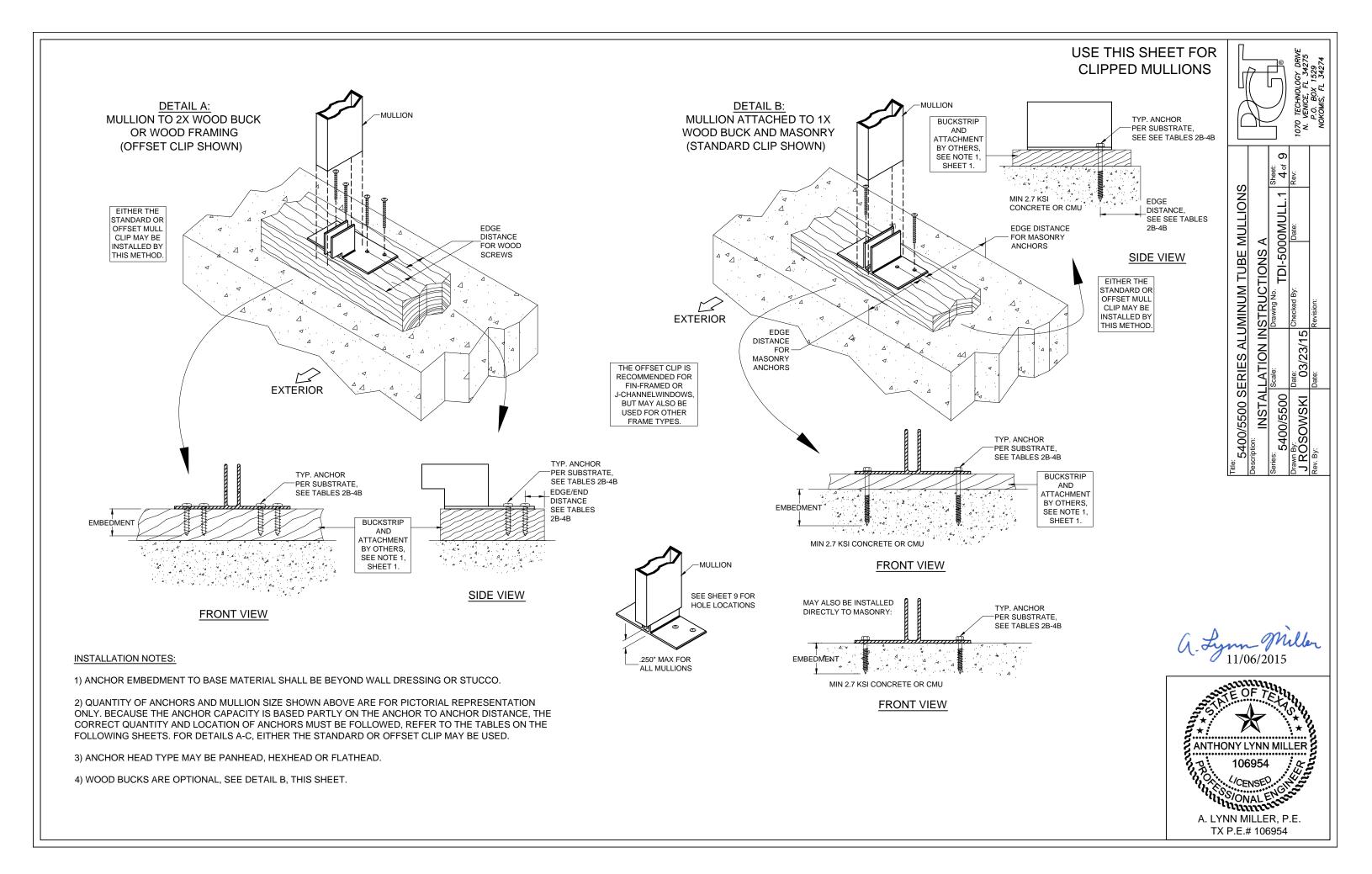
- 1) APPLIES TO FIN OR J-CHANNEL FRAMES.
- 2) REQUIRED AT EACH END OF EACH MULLION
- 3) PICTURE WINDOW WITH VERTICAL MULLION SHOWN, ALL WINDOW TYPES AND MULLION ORIENTATIONS APPLICABLE.

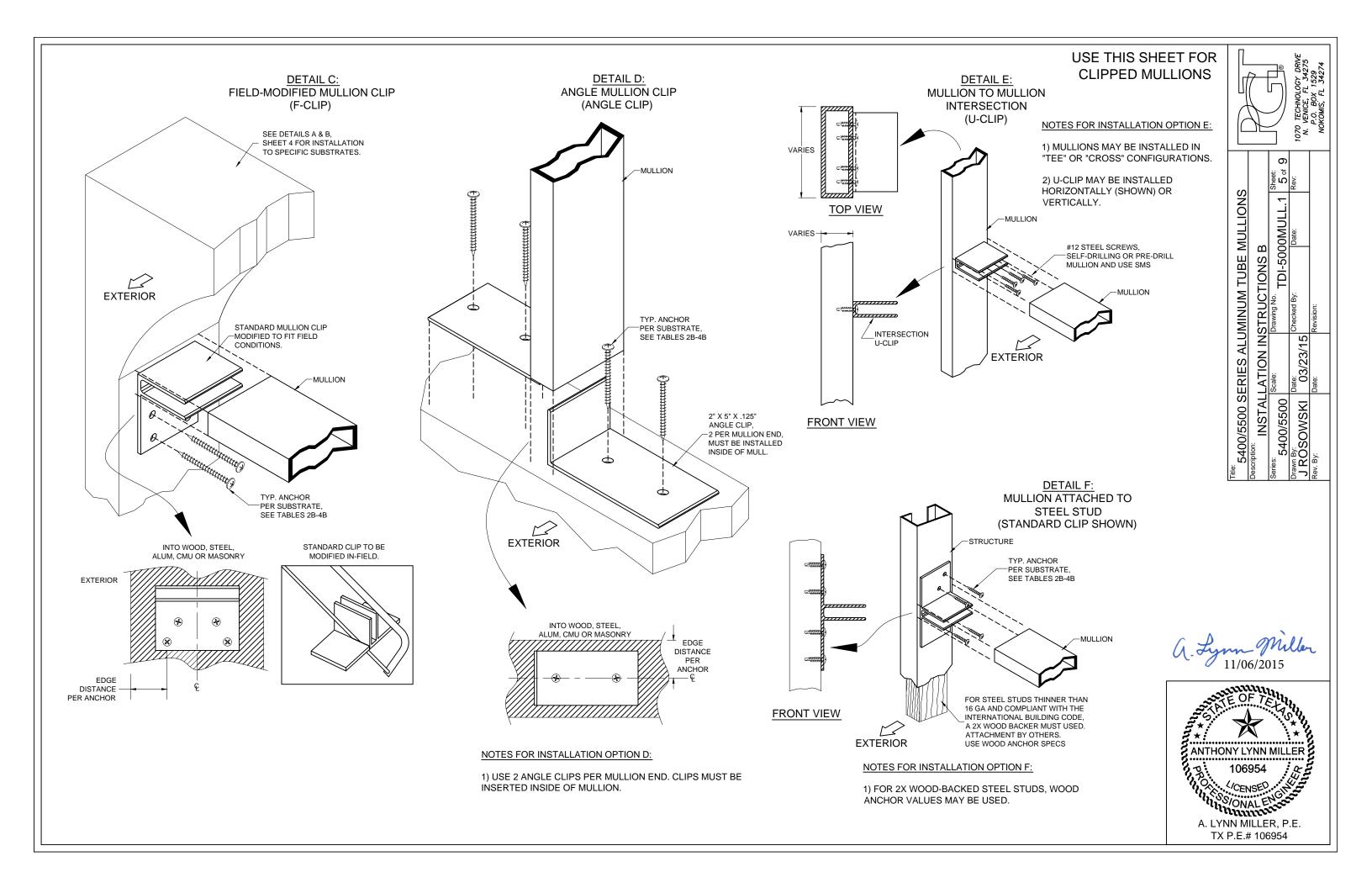


5400/5500 S	ERIES ALU	5400/5500 SERIES ALUMINUM TUBE MULLIONS	MULLIONS	"
Description:				
ONCLIP	UNCLIPPED MULLIONS	SNO		
Series:	Scale:	Drawing No.		lS
5400/5500			TDI-5000MULL.1	
Drawn By:	Date:	Checked By:	Date:	R
J RÖSOWSKI 03/23/15	03/23/15			
Rev. By:	Date:	Revision:		









ΤA	BLE 2A																																				
																Mu	ıllion C	apaci	ty Tab	le (lbs/	ft ²)																
						II.			,				ning V	Vidth (or vert	ically-s	panning	g mullio	ons) or	Openi	ng He	ght (fo	r horizo	ontally-	pannir	ng mulli	ons)										
			50) in			60) in			70	in			80	in			90	in			100) in			120) in			14	0 in		<u> </u>	160	1	
																																				Trap/T Loa	riang. ding
Alu	Note Parish Par																																				
	42 in	70.0	255	70.0	179	70.0	306	70.0	197	70.0	357	70.0	208	70.0	408	70.0	214	70.0	459	70.0	214	70.0	510	70.0	214	70.0	613	70.0	214	70.0	715	70.0	214	70.0	817	70.0	214
	48 in	70.0	292	70.0	216	70.0	350	70.0	241	70.0	408	70.0	259	70.0	467	70.0	272	70.0	525	70.0	279	70.0	583	70.0	280	70.0	700	70.0	280	70.0	817	70.0	280	70.0	933	70.0	280
	50.625 in	70.0	308	70.0	232	70.0	369	70.0	260	70.0	431	70.0	282	70.0	492	70.0	298	70.0	554	70.0	308	70.0	615	70.0	311	70.0	738	70.0	311	70.0	861	70.0	311	65.9	927	70.0	311
	54 in	70.0	328	70.0	252	70.0	394	70.0	284	70.0	459	70.0	311	70.0	525	70.0	331	70.0	591	70.0	345	70.0	656	70.0	352	70.0	788	70.0	354	66.2	869	70.0	354	57.9	869	70.0	354
	60 in	70.0	365	70.0	289	70.0	438	70.0	328	70.0	510	70.0	362	70.0	583	70.0	389	70.0	656	70.0	410	70.0	729	70.0	425	59.7	746	70.0	438	51.2	746	70.0	438	44.8	746	70.0	438
드	63 in	70.0	383	70.0	307	70.0	459	70.0	350	70.0	536	70.0	387	70.0	613	70.0	418	68.7	677	70.0	443	61.9	677	70.0	462	51.6	677	70.0	481	44.2	677	70.0	482	38.7	677	70.0	482
Length	66 in	70.0	401	70.0	325	70.0	481	70.0	372	70.0	561	70.0	413	67.3	617	70.0	447	59.8	617	70.0	476	53.8	617	68.7	489	44.8	617	64.4	483	38.4	617	63.7	482	33.6	617	63.7	482
Ļ	72 in	70.0	438	70.0	362	69.1	518	70.0	416	59.2	518	65.2	432	51.8	518	58.8	425	46.1	518	54.2	419	41.4	518	50.7	414	34.5	518	46.6	408	29.6	518	45.0	405	25.9	518	45.0	405
Mullion	76 in	70.0	462	70.0	386	58.7	465	62.6	398	50.3	465	54.9	390	44.1	465	49.4	384	39.2	465	45.3	378	35.2	465	42.2	374	29.4	465	38.3	367	25.2	465	36.5	364	22.0	465	36.2	363
M	78 in	65.2	441	68.0	387	54.3	441	57.7	379	46 6	441	506	372	40.8	441	45.4	366	36.2	441	416	360	32 6	441	38.7	356	27.2	441	34 9	349	23.3	441	33.1	346	20.4	441	32.7	345
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						-		-											-										1-1-			- 11					
	108 in	24.6	230	25.1	208	20.5	230	21.1	205	17.5	230	18.3	201	15.4	230	16.2	198	10.1		21.5		11.0		10.0		11.0		and a		12.0	201	10.0				\vdash	\vdash
	111 in	22.6	218	23.1	197	18.9	218	19.4	194	16.2	218	16.8	191	14.1	218	14.9	188																			\vdash	
	120 in	17.9	187	18.2	170	14.9	187	15.3	167	10.2	210	10.0	131	1-4: 1	210	14.5	100																				
SE	F CAR				I			l.	107										1													l				ш	

USE THIS SHEET FOR CLIPPED MULLIONS

USE RECTANGULAR
LOADING FOR ALL TEE OR
CROSS CONFIGURATIONS,
AND ALL ASSEMBLIES
CONTAINING A
SINGLE/DOUBLE HUNG
WINDOW.

USE TRAPEZOIDAL /TRIANGULAR LOADING FOR ALL OTHERS.

	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275	P.O. BOX 1529 NOKOMIS, FL 34274
6		

SEE CAR 190-1075 FOR CERTIFICATION.

TABLE 2B

					And	chor Capa	city Table	(lbs)								
	Substrate:		2.7k C	oncrete		3.5k Conc.			Hollo	w CMU			Filled CMU	PT \	Nood	Metal
Anchor Clip Patterns	Anchor Type:	3/16" Elc	o Ultracon	1/4" Elco	Ultracon	5/16" Elco Ultracon	3/16" Elci	o Ultracon	1/4" Elco	Ultracon	1/4" SS Elco Aggre Gator	12.00111002	1/4" SS Elco Aggre Gator			#12 Steel Screw (G5)
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Stand	ard or Offset Clip (Fig. 1):	390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standa	rd (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2)	2x5 Angle Clips / (Fig. 3):	780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
3 Anchors @ 0.54" Min. O.C. / U-Clip,	into .100" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	950 lbs
	1 Anchor / F-Clip (Fig. 5):	195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15"	Min. O.C./ F-Clip (Fig. 6):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

ANCHOR CAPACITY ADJUSTMENT FORMULA:

 $(DP_{REQ}) \times \left(\frac{ANCHOR\ CAP._{FROM\ TABLE}}{MULLION\ CAP._{EQOM\ TABLE}}\right) = ANCHOR\ CAP._{REQ}$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

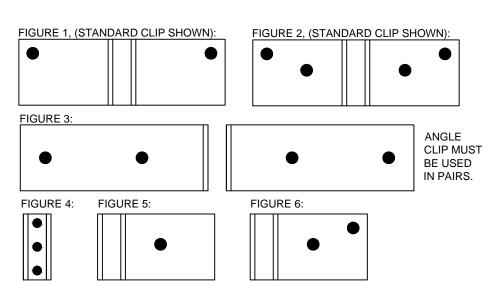
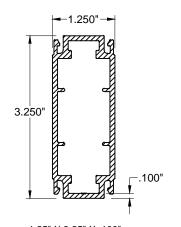
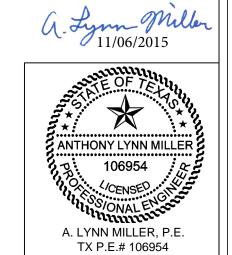


TABLE NOTES:

- 1) SEE SHEET 9 FOR INSTRUCTIONS ON USING THE TABLES. SEE SHEETS 3-5 FOR GENERAL INSTALLATION METHODS.
- 2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.
- 3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEET 9. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEET 9. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.
- 4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.25" X 3.25" X .100" MULLION



				*			**									Mu	ıllion C	apaci	ty Tab	le (lbs/	ft ²)											~					
												Ope	ning V	Vidth (for vert	ically-s	pannin	g mullic	ons) or	Openi	ng Hei	ght (fo	r horizo	ontally-s	pannir	ng mulli	ons)										
			50) in			60) in			70	in			80) in			90	in			100	0 in			120) in			14	0 in			160	0 in	
	25 x 3.25 x .624		angular ading	Trap/I Loa	riang. ding	21271226/2012/02/2012	angular iding	Trap/T Loa		Recta Loa	-	Trap/I Loa	-	Recta Loa	-	Trap/ Loa	riang. ding	Recta Loa	ngular ding	Trap/1 Loa	-	Recta Loa	ngular ding	Trap/T Loa	9	Recta Loa		Trap/T Loa	-	Recta Loa	ngular ding	Trap/I Loa		Recta Loa	angular Iding		Triang. Iding
	um. Tube Mullion	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)																																		
	42 in	70.0	255	70.0	179	70.0	306	70.0	197	70.0	357	70.0	208	70.0	408	70.0	214	70.0	459	70.0	214	70.0	510	70.0	214	70.0	613	70.0	214	70.0	715	70.0	214	70.0	817	70.0	214
	48 in	70.0	292	70.0	216	70.0	350	70.0	241	70.0	408	70.0	259	70.0	467	70.0	272	70.0	525	70.0	279	70.0	583	70.0	280	70.0	700	70.0	280	70.0	817	70.0	280	70.0	933	70.0	280
	50.625 in	70.0	308	70.0	232	70.0	369	70.0	260	70.0	431	70.0	282	70.0	492	70.0	298	70.0	554	70.0	308	70.0	615	70.0	311	70.0	738	70.0	311	70.0	861	70.0	311	70.0	984	70.0	311
	54 in	70.0	328	70.0	252	70.0	394	70.0	284	70.0	459	70.0	311	70.0	525	70.0	331	70.0	591	70.0	345	70.0	656	70.0	352	70.0	788	70.0	354	70.0	919	70.0	354	70.0	1050	70.0	354
	60 in	70.0	365	70.0	289	70.0	438	70.0	328	70.0	510	70.0	362	70.0	583	70.0	389	70.0	656	70.0	410	70.0	729	70.0	425	70.0	875	70.0	438	70.0	1021	70.0	438	70.0	1167	70.0	438
ᇁ	63 in	70.0	383	70.0	307	70.0	459	70.0	350	70.0	536	70.0	387	70.0	613	70.0	418	70.0	689	70.0	443	70.0	766	70.0	462	70.0	919	70.0	481	70.0	1072	70.0	482	70.0	1225	70.0	482
gua	66 in	70.0	401	70.0	325	70.0	481	70.0	372	70.0	561	70.0	413	70.0	642	70.0	447	70.0	722	70.0	476	70.0	802	70.0	498	70.0	963	70.0	525	70.0	1123	70.0	529	68.1	1248	70.0	529
Ľ	72 in	70.0	438	70.0	362	70.0	525	70.0	416	70.0	613	70.0	464	70.0	700	70.0	506	70.0	788	70.0	541	70.0	875	70.0	571	69.9	1049	70.0	613	59.9	1049	70.0	630	52.4	1049	70.0	630
Mullion Length	76 in	70.0	462	70.0	386	70.0	554	70.0	445	70.0	647	70.0	498	70.0	739	70.0	544	70.0	831	70.0	585	70.0	924	70.0	620	59.5	941	70.0	671	51.0	941	70.0	698	44.6	941	70.0	702
₹	78 in	70.0	474	70.0	398	70.0	569	70.0	459	70.0	664	70.0	515	70.0	758	70.0	564	70.0	853	70.0	607	66.0	894	70.0	644	55.0	894	70.0	700	47.1	894	67.0	701	41.3	894	66.1	698
	90 in	70.0	547	70.0	471	70.0	656	70.0	547	61.4	671	65.3	575	53.7	671	58.2	566	47.7	671	52.9	558	43.0	671	48.8	551	35.8	671	43.1	539	30.7	671	39.7	531	26.9	671	37.9	526
	96 in	70.0	583	70.0	507	59.0	590	61.4	518	50.6	590	53.4	509	44.3	590	47.5	502	39.3	590	43.0	494	35.4	590	39.6	488	29.5	590	34.7	477	25.3	590	31.6	469				
	108 in	49.7	466	50.8	421	41.4	466	42.8	414	35.5	466	37.1	408	31.1	466	32.9	402																				
	111 in	45.8	441	46.7	400	38.2	441	39.3	393	32.7	441	34.1	387	28.6	441	30.2	382																				
	120 in	36.3	378	36.9	344	30.2	378	31.0	339			-	170 116			1111																					\vdash

USE THIS SHEET FOR CLIPPED MULLIONS

USE RECTANGULAR LOADING FOR ALL TEE OR CROSS CONFIGURATIONS, AND ALL ASSEMBLIES **CONTAINING A** SINGLE/DOUBLE HUNG WINDOW.

USE TRAPEZOIDAL /TRIANGULAR LOADING FOR ALL OTHERS.

5400/5500 SERIES ALUMINUM TUBE MULLIONS -5000MULL. 25 Scale 3 awn By: I ROSOWSKI

ANCHOR CAPACITY ADJUSTMENT FORMULA:

ANCHOR CAP. FROM TABLE ANCHOR CAP. MULLION CAP.

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

ic or operational and the second of the seco	THE PARTY OF THE P	THE RESERVE AND LAND OF THE PARTY OF THE PAR	CONTRACTOR STREET	The second of the second	120 101 11
2 Anchors @ 1.15" Min. O.C./ F-Clip (Fig.	6): 240 lbs	350 lbs	N/A	N/A	N/A
FIGURE 1, (STANDARD CLIP SHOWN):	FIGURE 2	, (STANDA	RD CLIP S	SHOWN):	
FIGURE 3:	•		•	ANGL CLIP M BE US IN PAI	MUST SED
FIGURE 4: FIGURE 5:	FIGURE 6:				
		•			

Substrate:

Anchor Type

Edge Distance (in)

1 Anchor / F-Clip (Fig. 5):

3/16" Floo Ultracon

1-3/4"

480 lbs

780 lbs

N/A

195 lbs

2-1/2"

1-3/4"

700 lbs

780 lbs

N/A

195 lbs

TABLE 3B

•

Anchor Clip Patterns

2 Anchors @ 4.75" Min. O.C. / Standard or Offset Clip (Fig. 1):

4 Anchors @ 3" Min. O.C. / (2) 2x5 Angle Clips / (Fig. 3):

4 Anchors @ 1.15" Min. O.C. / Standard (or Offset) Clip (Fig. 2):

3 Anchors @ 0.54" Min. O.C. / U-Clip, into .100" Alum. (Fig. 4):

TABLE NOTES:

Hollow CMU

1/4" Elco Ultracon

1-1/4"

354 lbs

N/A

N/A

N/A

177 lbs

N/A

2-1/2"

1-1/4"

740 lbs

N/A

760 lbs

N/A

370 lbs

N/A

Anchor Capacity Table (lbs)

3/16" Elco Ultracon

1-1/4"

270 lbs

N/A

540 lbs

N/A

135 lbs

N/A

2-1/2"

1-1/4"

280 lbs

380 lbs

560 lbs

N/A

140 lbs

190 lbs

3.5k Conc

5/16" Elco

Ultracon

3-1/8"

1644 lbs

N/A

1896 lbs

N/A

822 lbs

N/A

1/4" Flco Ultracon

1-3/4"

450 lbs

N/A

680 lbs

N/A

225 lbs

2-1/2"

1-3/4"

890 lbs

N/A

1560 lbs

N/A

445 lbs

1) SEE SHEET 9 FOR INSTRUCTIONS ON USING THE TABLES. SEE SHEETS 3-5 FOR GENERAL INSTALLATION METHODS.

1/4" SS Elco 5/16" Elco

Ultracon

3-1/8"

1-1/4"

664 lbs

N/A

880 lbs

N/A

332 lbs

N/A

Aggre Gator

2"

1-1/4"

374 lbs

N/A

748 lbs

N/A

187 lbs

N/A

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

Filled CMU

1/4" SS Elco

Aggre Gator

2"

946 lbs

N/A

1892 lbs

N/A

473 lbs

N/A

PT Wood

#10 Steel #12 Steel

Screw (G5) Screw (G5

0.54"

1-3/8"

442 lbs

885 lbs

885 lbs

N/A

221 lbs

442 lbs

0.48"

1-3/8"

341 lbs

682 lbs

682 lbs

N/A

170 lbs

341 lbs

Metal

#12 Steel

Screw (G5)

0.324"

varies

560 lbs

1120 lbs

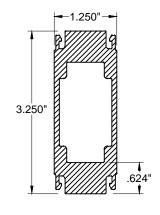
1120 lbs

950 lbs

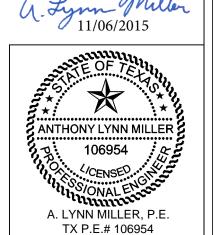
280 lbs

560 lbs

- 3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEET 9. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEET 9. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.
- 4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.25" X 3.25" X .624" MULLION



TΑ	BLE 4A																																				
				*	¥	*	*	**	17							M	ullion (Capaci	ty Tab	le (lbs/	ft²)									*	37						
													ning \	Vidth (for vert	ically-s	pannin	g mullio	ons) or	Openi	ng He	ight (fo	r horizo	ontally-	spanni	ng mull	ions)										
			50) in			60	in			70	in			80) in			90) in			100) in			12	0 in			14	0 in		<u> </u>	160	0 in	
	25 x 3.94 x .624	Recta Loa	ngular ding	8/20/20/19/20	Friang. ding	DE PRECIONA	angular ading	Trap/T Loa		Recta Loa	-	Trap/T Load			ingular iding		Triang. iding		ingular iding	Trap/1 Loa		100000000000000000000000000000000000000	ngular ding	30 Carlotte 10 Carlotte	Friang. ding	50 000 000 000	angular iding	Trap/I Loa	riang. ding	Recta Loa	ngular ding	Trap/T Load	Triang. iding	Recta Loa	angular ading	Trap/T Load	
Al	um. Tube Mullion	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff ²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ft²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)	Mullion Capacity (lbs/ff²)	Anchor Capacity Required (lbs)
	42 in	70.0	255	70.0	179	70.0	306	70.0	197	70.0	357	70.0	208	70.0	408	70.0	214	70.0	459	70.0	214	70.0	510	70.0	214	70.0	613	70.0	214	70.0	715	70.0	214	70.0	817	70.0	214
	48 in	70.0	292	70.0	216	70.0	350	70.0	241	70.0	408	70.0	259	70.0	467	70.0	272	70.0	525	70.0	279	70.0	583	70.0	280	70.0	700	70.0	280	70.0	817	70.0	280	70.0	933	70.0	280
	50.625 in	70.0	308	70.0	232	70.0	369	70.0	260	70.0	431	70.0	282	70.0	492	70.0	298	70.0	554	70.0	308	70.0	615	70.0	311	70.0	738	70.0	311	70.0	861	70.0	311	70.0	984	70.0	311
	54 in	70.0	328	70.0	252	70.0	394	70.0	284	70.0	459	70.0	311	70.0	525	70.0	331	70.0	591	70.0	345	70.0	656	70.0	352	70.0	788	70.0	354	70.0	919	70.0	354	70.0	1050	70.0	354
	60 in	70.0	365	70.0	289	70.0	438	70.0	328	70.0	510	70.0	362	70.0	583	70.0	389	70.0	656	70.0	410	70.0	729	70.0	425	70.0	875	70.0	438	70.0	1021	70.0	438	70.0	1167	70.0	438
	63 in	70.0	383	70.0	307	70.0	459	70.0	350	70.0	536	70.0	387	70.0	613	70.0	418	70.0	689	70.0	443	70.0	766	70.0	462	70.0	919	70.0	481	70.0	1072	70.0	482	70.0	1225	70.0	482
븀	66 in	70.0	401	70.0	325	70.0	481	70.0	372	70.0	561	70.0	413	70.0	642	70.0	447	70.0	722	70.0	476	70.0	802	70.0	498	70.0	963	70.0	525	70.0	1123	70.0	529	70.0	1283	70.0	529
Length	72 in	70.0	438	70.0	362	70.0	525	70.0	416	70.0	613	70.0	464	70.0	700	70.0	506	70.0	788	70.0	541	70.0	875	70.0	571	70.0	1050	70.0	613	70.0	1225	70.0	630	70.0	1400	70.0	630
<u>6</u>	76 in	70.0	462	70.0	386	70.0	554	70.0	445	70.0	647	70.0	498	70.0	739	70.0	544	70.0	831	70.0	585	70.0	924	70.0	620	70.0	1108	70.0	671	70.0	1293	70.0	698	70.0	1478	70.0	702
Mullion	78 in	70.0	474	70.0	398	70.0	569	70.0	459	70.0	664	70.0	515	70.0	758	70.0	564	70.0	853	70.0	607	70.0	948	70.0	644	70.0	1138	70.0	700	70.0	1327	70.0	732	68.2	1477	70.0	739
_	90 in	70.0	547	70.0	471	70.0	656	70.0	547	70.0	766	70.0	617	70.0	875	70.0	681	70.0	984	70.0	738	70.0	1094	70.0	790	59.2	1110	70.0	875	50.7	1110	65.6	878	44.4	1110	62.7	870
	96 in	70.0	583	70.0	507	70.0	700	70.0	591	70.0	817	70.0	668	70.0	933	70.0	739	65.0	975	70.0	804	58.5	975	65.4	807	48.8	975	57.4	789	41.8	975	52.3	776				
	108 in	70.0	656	70.0	580	68.5	771	70.0	678	58.7	771	61.3	674	51.4	771	54.3	664																				
	111 in	70.0	674	70.0	599	63.1	730	65.0	650	54.1	730	56.3	640	47.3	730	49.9	631																				
	120 in	59.9	624	61.0	569	49.9	624	51.2	560																												
	144 in	34.7	433	35.1	400	28.9	433	29.4	395																												
SE	F CAR	190-1	077 F		FRT	IFIC/	AOITA			1	1		1		-				1		1						-				1			1			

USE THIS SHEET FOR CLIPPED MULLIONS

USE RECTANGULAR LOADING FOR ALL TEE OR CROSS CONFIGURATIONS, AND ALL ASSEMBLIES CONTAINING A SINGLE/DOUBLE HUNG WINDOW.

USE TRAPEZOIDAL /TRIANGULAR LOADING FOR ALL OTHERS.

				7	=		
		Sheet:	8 ^ർ	Rev:			
MULLIONS			TDI-5000MULL.1 8 of 9	Date:			
5400/5500 SERIES ALUMINUM TUBE MULLIONS	1.25 X 3.94 X .624 MULL SPECS	Drawing No.		Checked By:		Revision:	
ERIES ALU	.94 X .624 N	Scale:		Date:	03/23/15	Date:	
5400/5500 S	scription: 1.25 X 3.	ries:	5400/5500	awn By:	ROSOWSKI 03/23/15	v. By:	

SEE CAR 190-1077 FOR CERTIFICATION.

TABLE 4B

Anchor Capacity Table (lbs)																
Anchor Clip Patterns	Substrate:		2.7k Concrete 3.		3.5k Conc.	Hollow CMU				Filled CMU	PT \	Vood	Metal			
	Anchor Type:	3/16" Elc	o Ultracon	1/4" Elco	Ultracon	5/16" Elco Ultracon	3/16" Elco Ultracon 1/4" Elco Ultracon		1/4" SS Elco Aggre Gator		1/4" SS Elco Aggre Gator			#12 Steel Screw (G5)		
	Edge Distance (in):	1"	2-1/2"	1"	2-1/2"	3-1/8"	1"	2-1/2"	1"	2-1/2"	2"	3-1/8"	2"	0.48"	0.54"	0.324"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	1-3/8"	1-3/8"	varies
2 Anchors @ 4.75" Min. O.C. / Stand	dard or Offset Clip (Fig. 1):	390 lbs	390 lbs	450 lbs	890 lbs	1644 lbs	270 lbs	280 lbs	354 lbs	740 lbs	374 lbs	664 lbs	946 lbs	341 lbs	442 lbs	560 lbs
4 Anchors @ 1.15" Min. O.C. / Standa	ard (or Offset) Clip (Fig. 2):	480 lbs	700 lbs	N/A	N/A	N/A	N/A	380 lbs	N/A	N/A	N/A	N/A	N/A	682 lbs	885 lbs	1120 lbs
4 Anchors @ 3" Min. O.C. / (2)	2x5 Angle Clips / (Fig. 3):	780 lbs	780 lbs	680 lbs	1560 lbs	1896 lbs	540 lbs	560 lbs	N/A	760 lbs	748 lbs	880 lbs	1892 lbs	682 lbs	885 lbs	1120 lbs
4 Anchors @ 0.54" Min. O.C. / U-Clip	o, into .100" Alum. (Fig. 4):	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1267 lbs
	1 Anchor / F-Clip (Fig. 5):	195 lbs	195 lbs	225 lbs	445 lbs	822 lbs	135 lbs	140 lbs	177 lbs	370 lbs	187 lbs	332 lbs	473 lbs	170 lbs	221 lbs	280 lbs
2 Anchors @ 1.15"	Min. O.C./ F-Clip (Fig. 6):	240 lbs	350 lbs	N/A	N/A	N/A	N/A	190 lbs	N/A	N/A	N/A	N/A	N/A	341 lbs	442 lbs	560 lbs

ANCHOR CAPACITY ADJUSTMENT FORMULA:

(ANCHOR CAP. FROM TABLE)
MULLION CAP. FROM TABLE) = ANCHOR CAP. REG

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

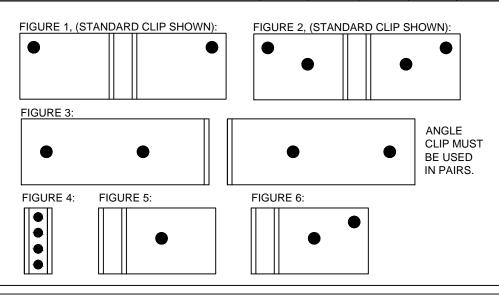
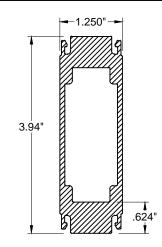


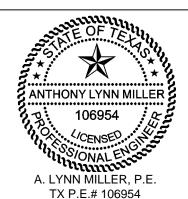
TABLE NOTES:

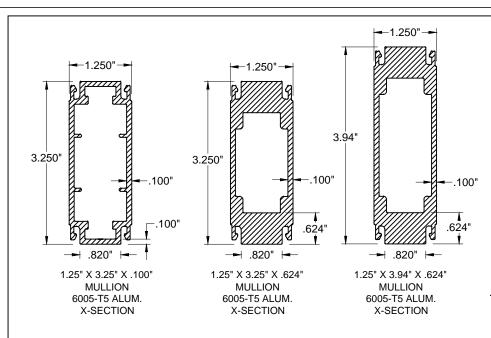
- 1) SEE SHEET 9 FOR INSTRUCTIONS ON USING THE TABLES. SEE SHEETS 3-5 FOR GENERAL INSTALLATION METHODS.
- 2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.
- 3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEET 9. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEET 9. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.
- 4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL BE PRESSURE-TREATED YELLOW SOUTHERN PINE WITH AN SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.25" X 3.94" X .624" MULLION

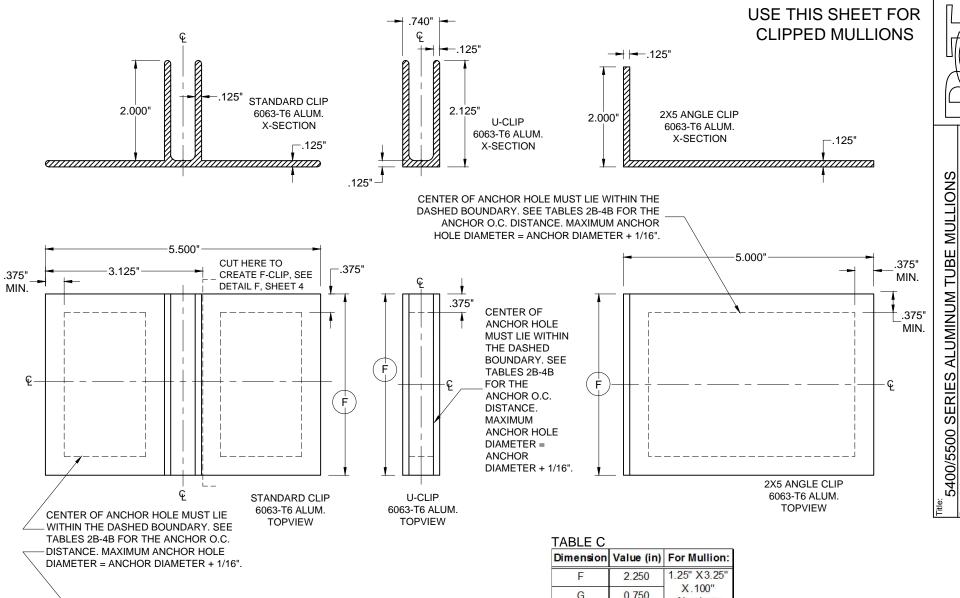






INSTRUCTIONS:

- 1) DETERMINE THE <u>DESIGN PRESSURE REQUIREMENT (LBS/FT²)</u> FOR THE OPENING USING THE **ASCE-7 STANDARD**.
- 2) CHOOSE A MULLION TYPE THAT WILL FIT THE DEPTH OF THE FENESTRATION PRODUCT'S FRAME DEPTH.
- 3) REFER TO SHEETS 6-8 TO DETERMINE IF THE WIND LOADING IS "RECTANGULAR" OR "TRIANGULAR/TRAPEZOIDAL".
- 4) FIND THE CHOSEN MULLION'S <u>MULLION CAPACITY (LBS/FT²)</u> FROM TABLES 2A THROUGH 4A, ON SHEETS 6 THROUGH 8 RESPECTIVELY, USING THE MULLION TYPE, LENGTH AND OPENING WIDTH OR HEIGHT (DEPENDING IF THE MULLION IS SPANNING VERTICALLY OR HORIZONTALLY). THE <u>MULLION CAPACITY (LBS/FT²)</u> OBTAINED SHALL MEET OR EXCEED THE <u>DESIGN PRESSURE REQUIREMENT (LBS/FT²)</u> FOR THE OPENING OBTAINED IN STEP 1).
- 5) FROM THE SAME TABLE USED IN STEP 4) ABOVE, FIND THE VALUE IN THE NEXT COLUMN ANCHOR CAPACITY REQUIRED (LBS). THIS VALUE REPRESENTS THE WINDLOAD TRANSFERRED TO THE SUBSTRATE BY THE ANCHORS AND MUST BE MET TO ATTAIN THE FULL MULLION CAPACITY.
- 6) FROM THE ANCHOR CAPACITY (LBS) TABLE ON THE SAME SHEET AND USING YOUR ACTUAL SUBSTRATE CONDITION (MULTIPLE ANCHOR/SUBSTRATE/ANCHOR-CLIP PATTERN MAY APPLY) SELECT AN ANCHOR CLIP PATTERN AND VERIFY THAT THE REQUIRED ANCHOR CAPACITY IS MET.
- 7) IF THE MULLION CAPACITY (LBS/FT²) OBTAINED IN THE TABLE IS HIGHER THAN THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING, YOU MAY USE THE "ANCHOR CAPACITY ADJUSTMENT FORMULA" TO OBTAIN THE LOWER ANCHOR CAPACITY REQUIRED. WITH THIS VALUE A LOWER ANCHOR CAPACITY OPTION MAY BE SELECTED FOR THE SAME SUBSTRATE
- 8) VERIFY THE DESIGN PRESSURE RATING (LBS/FT²) FOR THE FENESTRATION PRODUCT TO BE USED AND COMPARE WITH THE FINAL MULLION CAPACITY (LBS/FT²) OBTAINED FOR THE MULLION SYSTEM. THE LOWER OF THE TWO SHALL APPLY FOR THE ENTIRE MULLED FENESTRATION PRODUCT ASSEMBLY.
- 9) HIGHLIGHT OPTION USED AND TABLE VALUES USED IN A SPECIFIC APPLICATION WHEN USING THIS APPROVAL TO APPLY FOR A PERMIT.



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TABLE C		
Dimension	Value (in)	For Mullion:
F	2.250	1.25" X3.25"
G	0.750	X . 100" Aluminum
Н	1.500	Tube Mullion
F	1.938	1.25" X3.25"
G	0.500	X .624" Aluminum
Н	1.438	Tube Mullion
F	2.625	1.25" X3.94"
G	1.125	X .624" Aluminum
Н	1.500	Tube Mullion

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Mull Dimension	PGT Part #									
(sheet #)	Mullion	U-Clip	Angle Clip							
1.25" X 3.25" X .100" (5)	20160	6661127M	6661124M	6662410M	6665115M					
1.25" X 3.25" X .624" (6)	20161	6661128M	6661125M	6662411M	6665116M					
1.25" X 3.94" X .624" (7)	20162	6661117M	6661126M	666241M	666517M					



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