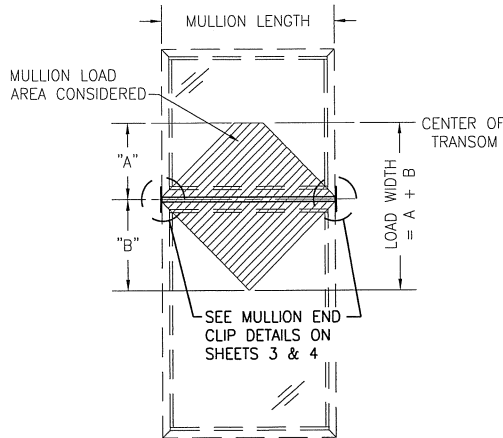
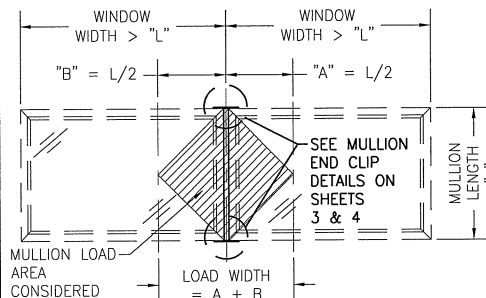




"A" = LESSER OF (MULLION LENGTH/2) OR (TRANSOM WINDOW HEIGHT/2)
 "B" = LESSER OF (MULLION LENGTH/2) OR (BOTTOM WINDOW HEIGHT/2)

SINGLE WINDOW WITH TRANSOM (SEE LOAD TABLE 1.0)

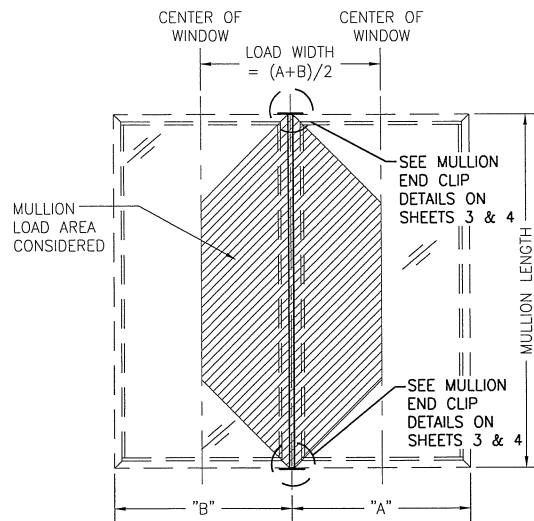
NOTE: BOTTOM WINDOW MAY BE A FIXED, CASEMENT, AWNING, SINGLE HUNG OR DOUBLE HUNG WINDOW. TOP WINDOW MAY BE ANY FIXED OR AWNING WINDOW.



FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE GREATER THAN THE MULLION LENGTH

(SEE LOAD TABLE 1.0)

NOTE: WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL.



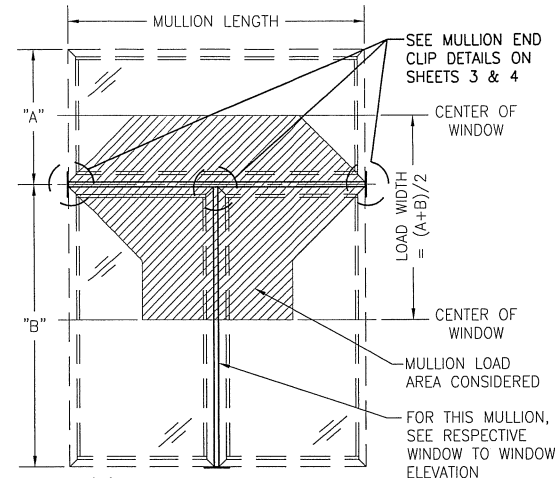
FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE LESS THAN OR EQUAL TO THE MULLION LENGTH (SEE LOAD TABLE 1.0)

NOTE: WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL.

GENERAL NOTES:

1. THIS MULLION SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF CHAPTER 17 OF THE FLORIDA BUILDING CODE & IS APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS FROM THE MULLIONS AND WINDOWS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS MULLION SYSTEM IS RATED FOR USE IN NON-HAZ AREAS ONLY.
5. THIS MULLION SYSTEM IS NON-IMPACT RATED. ALL OPENINGS THAT INCLUDE THIS MULLION SYSTEM MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
6. ALL ANCHORS SECURING MULLION CLIPS TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
9. CERTIFICATION OF THIS MULLION SYSTEM SHALL BE CONSIDERED VOID IF INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH WINDOW INSTALLATIONS.
10. WINDOWS SHALL BE UNDER SEPARATE APPROVAL.
11. ALL PELLA 250 SERIES NON-IMPACT VINYL WINDOWS MAY BE SUPPORTED BY THIS MULLION SYSTEM PROVIDING THEY ARE PROPERLY ANCHORED TO THE MULLION.
12. ALLOWABLE PRESSURE ON THE MULLION UNITS SHALL BE CONTROLLED BY THE LESSER ALLOWABLE PRESSURE OF THE MULLION & ITS END CONNECTIONS OR THE WINDOWS IT SUPPORTS.
13. WINDOW SIZES SHALL BE RESTRICTED BY THEIR OWN INDIVIDUAL APPROVAL.
14. ANCHORING OF WINDOWS TO THE OPENING SHALL BE PER THEIR RESPECTIVE APPROVAL.
15. CONDITIONS NOT SHOWN OR COVERED IN THIS DRAWING SHALL BE SUBJECT TO SEPARATE REVIEW AND JOB SPECIFIC CERTIFICATION BY A FLORIDA LICENSED ENGINEER.
16. THE ALLOWABLE PRESSURES STATED IN THE LOAD TABLES CONSIDER THE WORSE CASE OF MULLION STRESS, DEFLECTION AND END REACTION.
17. MULLION TUBES SHALL BE CONTINUOUS FROM END TO END.
18. WHEN VERTICALLY STACKED, THE MANUFACTURER/INSTALLER SHALL INSURE THAT THE DEAD WEIGHT OF THE ABOVE WINDOW(S) WILL NOT CAUSE UNDO STRESS ON THE BELOW WINDOW(S). THIS MULLION SYSTEM IS DESIGNED FOR WIND LOAD RESISTANCE ONLY & IS NOT CONSIDERED TO SUPPORT THE WEIGHT OF THE WINDOWS.

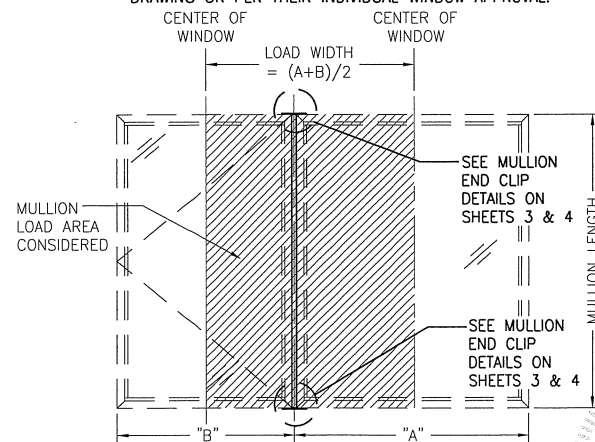
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.



TWO(2) SINGLE WINDOWS WITH A SINGLE FIXED WINDOW TRANSOM (SEE LOAD TABLE 2.0)

NOTES:

- * BOTTOM WINDOWS MAY BE ANY FIXED, CASEMENT, AWNING, SINGLE HUNG OR DOUBLE HUNG WINDOW.
- * BOTTOM WINDOWS MAY BE MULLED TOGETHER PER THIS DRAWING OR PER THEIR INDIVIDUAL WINDOW APPROVAL.



SINGLE OPERABLE WINDOW TO A SINGLE OPERABLE OR FIXED WINDOW (SEE LOAD TABLE 3.0)

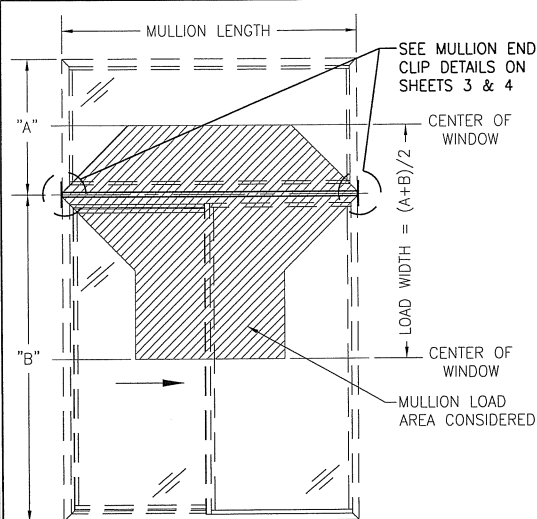
NOTES:

- * WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL.
- * OPERABLE WINDOW(S) MAY BE CASEMENT, AWNING, SINGLE HUNG OR DOUBLE HUNG WINDOWS.

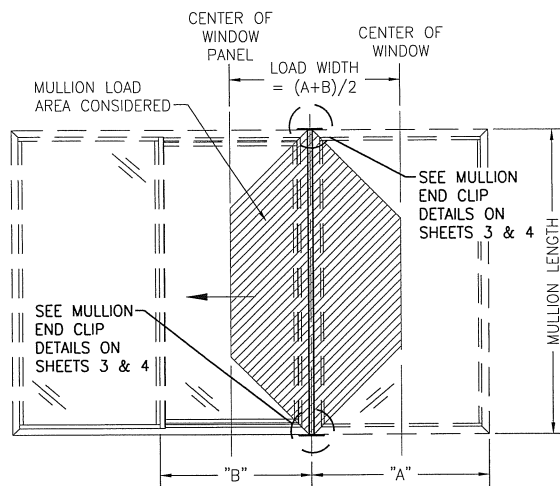
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/09/13
DATE: 07/09/13	
BY: WWS	
REVISION DESCRIPTION: UPDATED TO CURRENT STANDARDS	
NO: A1	
DRAWING TITLE: 250 VINYL WINDOW SERIES ALUMINUM TUBE MULLION (NON-IMPACT)	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 4801 SOUTH COURTYARD NORTH PALM BEACH, FLORIDA 33418 PHONE: 561-744-3424	
CERTIFICATION JAN 09 2015 W. W. SCHAEFER, P.E. P.E. NO. 14135	
DRAWING NO. 1865	REV. A
SHEET NO. 1	OF 5

PELLA CORPORATION
 102 MAIN STREET
 PELLA, IA 50219
 641-621-1000



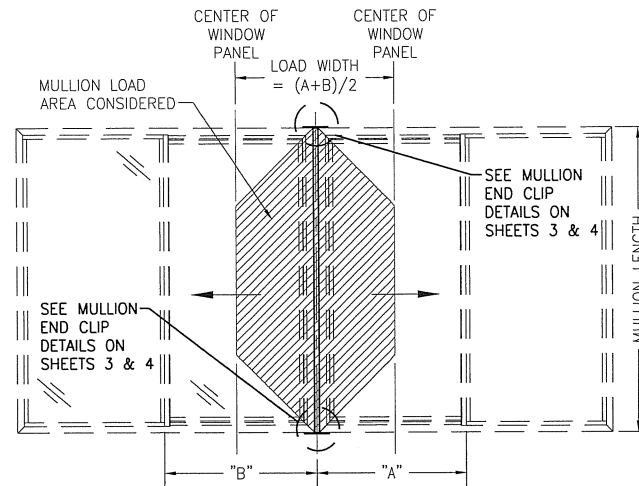


**TWO(2) PANEL SLIDING WINDOW WITH
A SINGLE FIXED WINDOW TRANSOM**
(SEE LOAD TABLE 2.0)



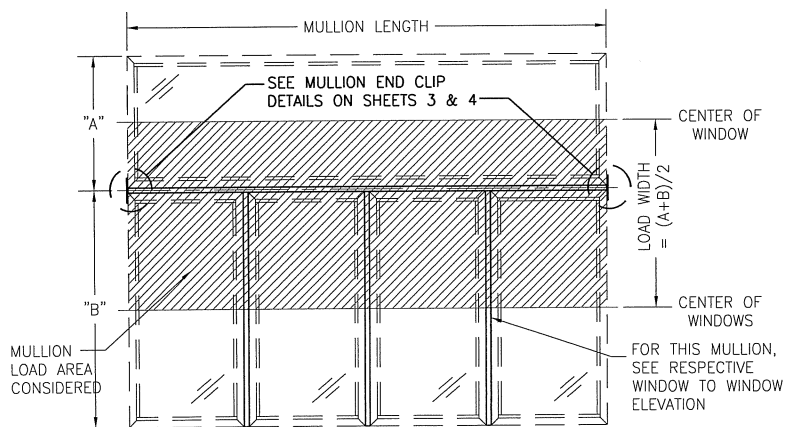
**SLIDING WINDOW NEXT TO A SINGLE
FIXED WINDOW**
(SEE LOAD TABLE 1.0)

NOTE: 2-PANEL SLIDING WINDOW IS SHOWN. MORE THAN 2
PANELS MAY APPLY TO THE SLIDING WINDOW.



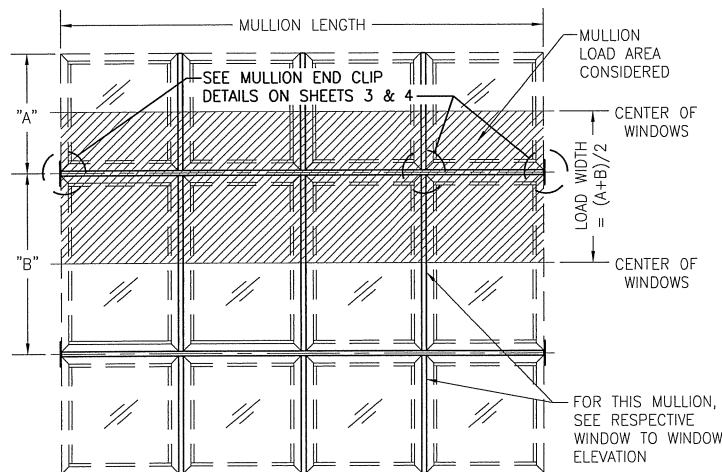
**SLIDING WINDOW NEXT TO A SLIDING
WINDOW**
(SEE LOAD TABLE 1.0)

NOTE: 2-PANEL SLIDING WINDOWS ARE SHOWN. MORE THAN
2 PANELS MAY APPLY TO THE SLIDING WINDOWS.



MULTIPLE WINDOWS WITH TRANSOM
(SEE LOAD TABLE 3.0)

NOTES:
* TRANSOM MAY BE SINGLE OR MULTIPLE WINDOWS.
* BOTTOM WINDOWS MAY BE ANY QUANTITY OF FIXED,
CASEMENT, AWNING, SINGLE HUNG, DOUBLE HUNG OR SLIDING
WINDOWS.

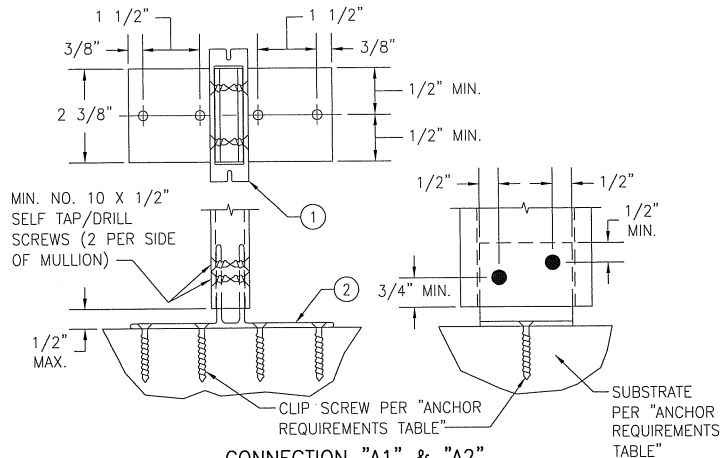


MULTIPLE WINDOWS (SEE LOAD TABLE 3.0)

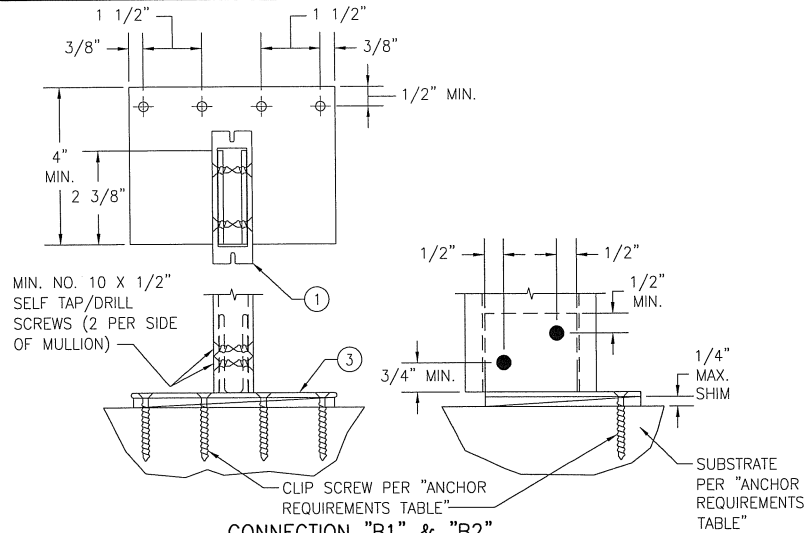
NOTES:
* CONTINUOUS MULLIONS MAY BE HORIZONTAL OR VERTICAL
(HORIZONTAL SHOWN).
* WINDOWS MAY BE ANY QUANTITY OF FIXED OR OPERABLE
WINDOWS.



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-34		DATE: 07/09/13	
DATE	BY	NO.	REVISION DESCRIPTION
DRAWING TITLE: 250 VINYL WINDOW SERIES ALUMINUM TUBE MULLION (NON-IMPACT)			
JOB INFORMATION: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
CONSULTANTS: W. W. SCHAEFER ENGINEERING 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: JAN 09 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1865		REV. A	
SHEET NO. 2		OF 5	



CONNECTION "A1" & "A2"
**"A1" = TO WOOD, CONCRETE, METAL STUD,
 STEEL OR ALUMINUM SUBSTRATES**
"A2" = TO CMU SUBSTRATE

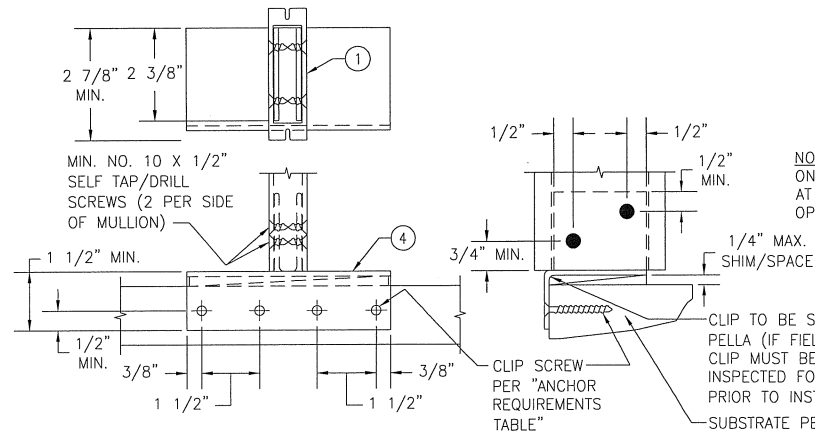


CONNECTION "B1" & "B2"
**"B1" = TO WOOD, CONCRETE, METAL STUD,
 STEEL OR ALUMINUM SUBSTRATES**
"B2" = TO CMU SUBSTRATE
 (EXTENDED PORTION OF THE CLIP MAY BE TO THE INTERIOR OR
 EXTERIOR OF THE SUPPORTING SUBSTRATE)

ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
SCREWS FOR CONNECTIONS A1, A2, B1 & B2			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 3/8"	1"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
SCREWS FOR CONNECTION C			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

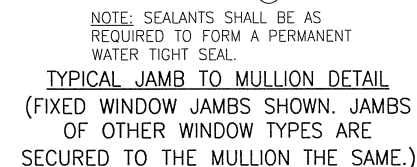


CONNECTION "C"
(TO WOOD, STEEL OR ALUMINUM SUBSTRATES)
 (CLIP MAY BE PLACED AT INTERIOR OR EXTERIOR OF THE SUPPORTING SUBSTRATE)

NOTE: SHIM IS
 ONLY REQUIRED
 AT SILLS OF
 OPENINGS

CLIP TO BE SHOP BENT BY
 PELLA (IF FIELD BENT, THE
 CLIP MUST BE THOROUGHLY
 INSPECTED FOR CRACKING
 PRIOR TO INSTALLATION)
 SUBSTRATE PER "ANCHOR
 REQUIREMENTS TABLE"

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-3		DATE: 07/09/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE 250 VINYL WINDOW SERIES ALUMINUM TUBE MULLION (NON-IMPACT)			
JOB INFORMATION: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: JAN 09 2015 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1865		REV. A	
SHEET NO. 3		OF 5	



⑥ MULLION CLIP USED WITH CONNECTION TYPE "E"
(MIN. 6063-T6 ALUMINUM)

[illegible]

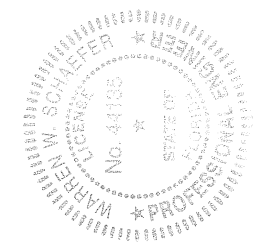
LOAD TABLE 1.0		
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF) ALL CONNECTIONS
144	18	24.6
	24	24.0
132	18	32.0
	36	21.3
	30	25.5
120	24	31.9
	18	42.5
	54	19.5
	48	21.9
	42	25.0
	36	29.2
	30	35.0
108	24	43.8
	18	58.4
	72	20.8
	66	22.7
	60	24.9
	54	27.7
	48	31.2
	42	35.6
	36	41.5
	30	49.9
	24	62.3
	21	70.0
	72	25.2
	66	27.5
	60	30.3
	54	33.6
	48	37.8
	42	43.2
	36	50.4
	30	60.5
	25	70.0
	72	31.0
	66	33.8
	60	37.2
	54	41.3
	48	46.5
	42	53.2
	36	62.0
	31	70.0
	72	38.7
	66	42.2
	60	46.5
	54	51.6
	48	58.1
	42	66.4
	39	70.0
	72	49.2
	66	53.7
	60	59.1
	54	65.6
	48	70.0
66	66	70.0

LOAD TABLE 2.0			
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	
		WITH CONNECTIONS A1, B1, C, D OR E	WITH CONNECTIONS A2 OR B2
120	36	21.3	21.3
	30	25.5	25.5
	24	31.9	31.9
	18	42.5	42.5
	54	19.5	19.5
108	48	21.9	21.9
	42	25.0	25.0
	36	29.2	29.2
	30	35.0	35.0
	24	43.8	43.8
96	18	58.4	58.4
	72	20.8	20.8
	66	22.7	22.7
	60	24.9	24.9
	54	27.7	27.7
90	48	31.2	31.2
	42	35.6	35.6
	36	41.5	41.5
	30	49.9	49.9
	24	62.3	62.3
84	21	70.0	70.0
	72	25.2	25.2
	66	27.5	27.5
	60	30.3	30.3
	54	33.6	33.6
78	48	37.8	37.8
	42	43.2	43.2
	36	50.4	50.4
	30	60.5	60.5
	25	70.0	70.0
72	72	31.0	31.0
	66	33.8	33.8
	60	37.2	37.2
	54	41.3	41.3
	48	46.5	46.5
66	42	53.2	53.2
	36	62.0	62.0
	31	70.0	70.0
	72	38.7	38.7
	66	42.2	42.2
60	60	46.5	46.5
	54	51.6	51.6
	48	58.1	58.1
	42	66.4	66.4
	39	70.0	70.0
54	72	49.2	44.9
	66	53.7	48.5
	60	59.1	53.3
	54	65.6	59.3
	48	70.0	66.7
48	45	70.0	70.0
	72	63.9	48.5
	66	69.7	52.9
	60	70.0	58.2
	54	70.0	64.6
42	49	70.0	70.0
	72	70.0	53.3
	66	70.0	58.2
	60	70.0	64.0
	54	70.0	70.0
36	72	70.0	59.3
	66	70.0	64.6
	60	70.0	70.0
	54	70.0	70.0
	48	70.0	70.0
30	72	70.0	66.7
	68	70.0	70.0
	72	70.0	70.0
	68	70.0	70.0
	72	70.0	70.0

LOAD TABLE 3.0			
MAXIMUM MULLION LENGTH (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)	
		WITH CONNECTIONS A1, B1, C, D OR E	WITH CONNECTIONS A2 OR B2
144	24	18.5	18.5
	18	24.6	24.6
	30	19.2	19.2
	24	24.0	24.0
	18	32.0	32.0
132	36	21.3	21.3
	30	25.5	25.5
	24	31.9	31.9
	18	42.5	42.5
	54	19.5	19.5
120	48	21.9	21.9
	42	25.0	25.0
	36	29.2	29.2
	30	35.0	35.0
	24	43.8	43.8
108	18	58.4	58.4
	72	20.8	20.8
	66	22.7	22.7
	60	24.9	24.9
	54	27.7	27.7
96	48	31.2	31.2
	42	35.6	35.6
	36	41.5	41.5
	30	49.9	49.9
	24	62.3	62.3
90	21	70.0	70.0
	72	25.2	24.9
	66	27.5	27.2
	60	30.3	29.9
	54	33.6	33.2
84	48	37.8	37.3
	42	43.2	42.7
	36	50.4	49.8
	30	60.5	59.7
	25	70.0	70.0
78	72	31.0	26.7
	66	33.8	29.1
	60	37.2	32.0
	54	41.3	35.6
	48	46.5	40.0
72	42	53.2	45.7
	36	62.0	53.3
	30	70.0	64.0
	27	70.0	70.0
	72	38.7	28.7
66	66	42.2	31.3
	60	46.5	34.5
	54	51.6	38.3
	48	58.1	43.1
	42	66.4	49.2
60	36	70.0	57.4
	30	70.0	68.9
	29	70.0	70.0
	72	42.2	31.1
	66	46.1	33.9
54	60	50.7	37.3
	54	56.3	41.5
	48	63.3	46.7
	42	70.0	53.3
	36	70.0	62.2
48	32	70.0	70.0
	72	46.1	33.9
	66	50.2	37.0
	60	55.3	40.7
	54	61.4	45.3
42	48	69.1	50.9
	42	70.0	58.2
	36	70.0	67.9
	34	70.0	70.0

INSTRUCTIONS FOR TABLE USE:
 1. DETERMINE THE MULLION LENGTH & LOAD WIDTH USING THE APPLICABLE ELEVATION ON SHEETS 1 & 2.
 2. DETERMINE REQUIRED WIND PRESSURE FOR THE OPENING.
 3. DETERMINE THE CONNECTION TYPE TO BE USED.
 4. FIND THE APPLICABLE PRESSURE FOR THE CONNECTION TYPE BEING USED.

TABLE NOTES:
 1. FOR ALL CONNECTION TYPES, SEE SHEETS 3 & 4 FOR DETAIL.
 2. IN ORDER TO SIMPLIFY TABLES, TABLE PRESSURES ARE LIMITED TO 70 PSF. USE OF THESE MULLIONS FOR PRESSURES HIGHER THAN 70 PSF SHALL BE REVIEWED UNDER SEPARATE APPROVAL.
 3. THESE LOAD TABLES ARE CERTIFIED AS CORRECT IN CONTENT. HOWEVER, CHOOSING OF THE CORRECT MULLION & CONNECTION FROM THESE TABLES FOR ITS SPECIFIC USE IS THE RESPONSIBILITY OF THOSE USING THE TABLES AND SHOULD BE VERIFIED BY THE BUILDING OFFICIAL OR A FLORIDA CERTIFIED ENGINEER.



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=3		DATE: 07/09/13	
DATE	BY	REVISION	DESCRIPTION
NO.			
DRAWING TITLE: 250 VINYL WINDOW SERIES ALUMINUM TUBE MULLION (NON-IMPACT) CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 P.E. NO. 44135			
CERTIFICATION: JAN 09 2015 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135			
DRAWING NO. 1865		REV. A	
SHEET NO. 5		OF 5	