

PELLA CORPORATION

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION SYSTEM - IMPACT

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED AND DESIGNED TO THE DESIGN PRESSURE(S) STATED HEREIN AS FOLLOWS.
 - 1.1. IN COMPLIANCE WITH THE 2006 INTERNATIONAL BUILDING CODE WITH TEXAS REVISIONS - SECTION 1609.1.2.
 - 1.2. IN COMPLIANCE WITH THE 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS REVISIONS - SECTIONS R301.2.1.2 AND R613.9.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, 2X FRAMING AND METAL FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
4. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE 2006 INTERNATIONAL BUILDING CODE WITH TEXAS REVISIONS AND THE 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS REVISIONS REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS IS NOT REQUIRED FOR THE PRODUCT(S) HEREIN.
5. SEPERATE PRODUCT EVALUATION DOCUMENTS (PED) FOR EACH GLAZING PRODUCT USED IN CONJUNCTION WITH THESE MULLIONS MUST BE SUBMITTED ALONG WITH THIS PRODUCT EVALUATION DOCUMENT TO THE AUTHORITIES HAVING JURISDICTION.
6. THE INSTALLATION DETAILS DESCRIBED IN THIS PRODUCT EVALUATION DOCUMENT ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED IN THIS PRODUCT EVALUATION DOCUMENT, SITE SPECIFIC DOCUMENTS SHALL BE PREPARED FOR USE WITH THIS DOCUMENT BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT
7. FOR MULLION DESIGN PRESSURE RATINGS SEE APPROPRIATE LOAD SPAN RATING TABLES AS LISTED IN THE TABLE OF CONTENTS.
8. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE THE LESSER OF THE LOAD CAPACITY OF THE MULLION AS DETERMINED USING THIS PRODUCT EVALUATION DOCUMENT OR THE CERTIFIED DESIGN PRESSURE RATING OF THE INDIVIDUAL GLAZING PRODUCTS USED.
9. BOUNDING BOX DIMENSIONS FOR GEOMETRIC TRANSOM SHAPES MUST BE EQUAL TO OR LESS THAN RECTANGULAR TRANSOM DIMENSIONS SHOWN HEREIN.
10. APPROVED TWIN UNITS OR APPROVED SINGLES CAN BE USED IN MULLION CONFIGURATIONS. THE VERTICAL AND HORIZONTAL MULLION CONFIGURATIONS CAN BE COMBINED TO MULL MULTIPLE SINGLE UNITS TOGETHER.

INSTALLATION NOTES:


1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHE S, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
 - 2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
 - 2.2. SEE SHEET 2 FOR ILLUSTRATION OF ANCHOR EDGE DISTANCE AND SPACING.
 - 2.3. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEETS 3, 4, 6 AND 7 FOR SPECIFIC INSTALLATION DETAILS.
4. SEE SHEET 5 FOR APPROVED MULLED WINDOW CONFIGURATIONS.

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PROJECT #
414-0106

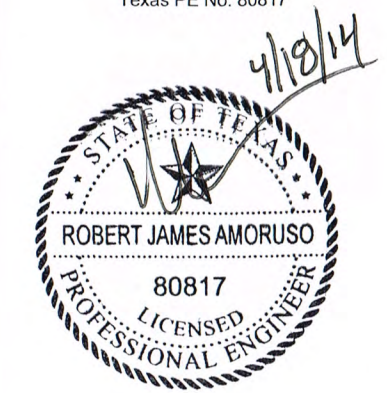
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
GENERAL NOTES AND INSTALLATION NOTES

PREPARED BY:  PDC
 DATE: 01/28/14
 DRAWN BY: RJA
 SCALE: N.T.S.
 DRAWING NO.: PELL0036
 REV: ---
 SHEET: 1 OF 26

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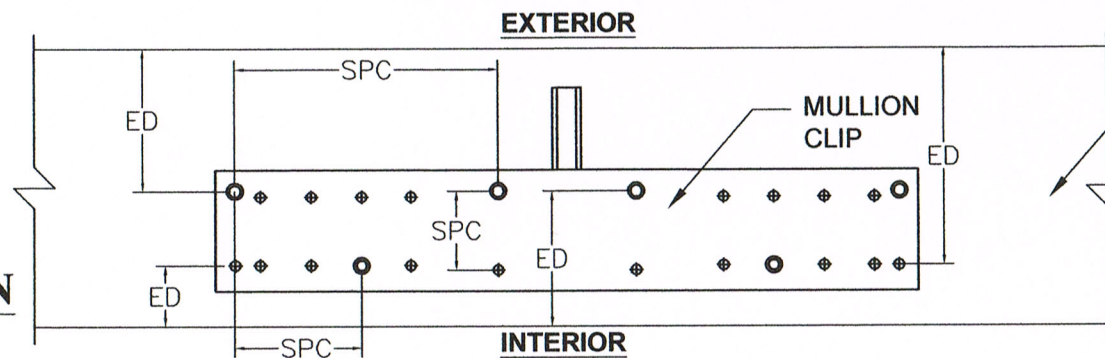
INSTALLATION ANCHOR SCHEDULE

INSTALLATION TYPE	SUBSTRATE	HEAD TYPE	SIZE	MANUFACTURER AND/OR SPECIFICATION	MIN. EMBEDMENT (IN)	MIN. EDGE DISTANCE (IN)	MIN. SPACING (IN)	CAPACITIES BASED ON		
4 1/2" BLOCK OR 4 1/2" FLANGE FRAME	CONCRETE	FLAT OR PAN HEAD	3/16"	ITW TAPCONS (3)	1 3/4"	1 1/8"	3"	MIN. 2000 PSI CONCRETE		
				ELCO ULTRACON	1 3/4"	1"	2 1/4"	MIN. 2846 PSI CONCRETE		
				ELCO CRETE-FLEX SS4	2"	2"	2.28"	MIN. 2000 PSI CONCRETE		
				HILTI KWIK-CON II	Not Recommended			MIN. 3000 PSI CONCRETE		
	MASONRY (BLOCK/CMU)	FLAT OR PAN HEAD	3/16"	ITW TAPCONS (3)	1"	2"	3"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT		
				ELCO ULTRACON	Not Recommended					
				ELCO CRETE-FLEX SS4	1 1/4"	2"	2.28"			
				HILTI KWIK-CON II	1"	1 1/2"	3"			
	WOOD (1)	FLAT OR PAN HEAD	NO. 10	ANSI B18.6.1 (WOOD SCREW) (2) ASME B18.6.4 (TAPPING SCREW) (2)		1-1/2"	3/4"	3/4"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42	
				FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	1/8" THK. ALUMINUM	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"	9/16"	ALUMINUM 6063-T5 ALUMINUM OR BETTER
1/8" THK. STEEL					NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"	9/16"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER	
20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS					NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"	9/16"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER	
4 1/2" NAILING FIN FRAME	WOOD (1)	PAN HEAD	NO. 10	ANSI B18.6.1 (WOOD SCREW) (2) ASME B18.6.4 (TAPPING SCREW) (2)		1-1/2"	0.285"	0.57"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42	
				FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	1/8" THK. ALUMINUM	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"	9/16"	ALUMINUM 6063-T5 ALUMINUM OR BETTER
					1/8" THK. STEEL	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"	9/16"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER
					20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"	9/16"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER

NOTES:

- 1) FOR WOOD AND TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR FLANGE/BLOCK FRAME INSTALLATION OR 3/32" PILOT HOLE FOR NAILING FIN INSTALLATION.
- 2) WOOD AND TAPPING SCREWS WILL HAVE GRADE 2 EQUIVALENT STRENGTH (FTU = 92 KSI AND FTY = 56 KSI).
- 3) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

EDGE DISTANCE AND SPACING DESCRIPTION

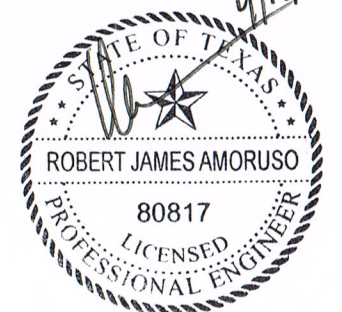


ATTACHMENT SUBSTRATE (WOOD, CONCRETE/MASONRY, STEEL OR ALUMINUM)

EDGE DISTANCES (ED) WILL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE (EXCLUDING WALL FINISHES) EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.

SPACING (SPC) WILL BE MEASURED FROM THE CLOSEST ADJACENT ANCHORS, CENTERLINE TO CENTERLINE OF ANCHOR.

Robert J. Amoruso, P.E.
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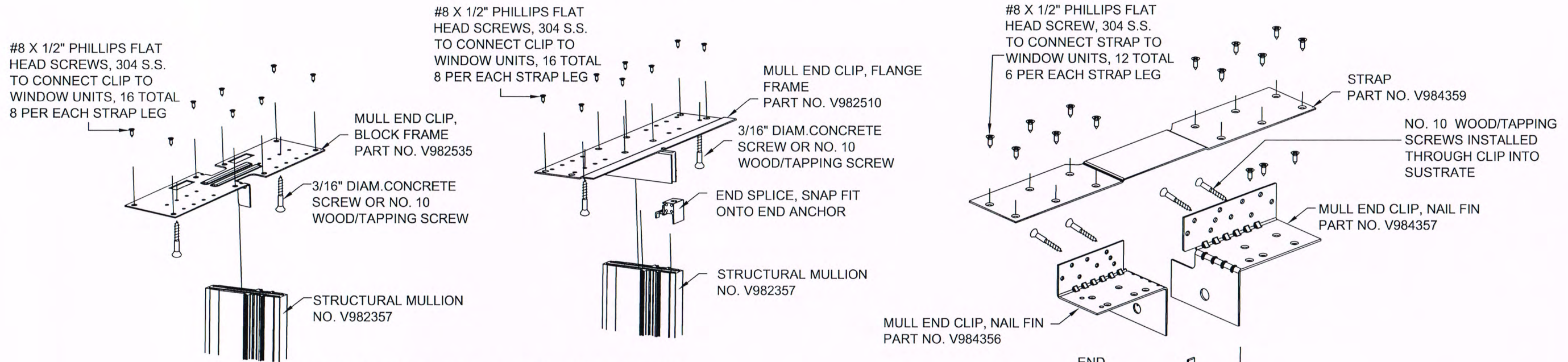
SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT INSTALLATION ANCHOR SCHEDULE

PREPARED BY: RJA
DRAWN BY: RJA
DATE: 01/28/14
SCALE: N.T.S.
SHEET: 2 OF 26
REV: ---

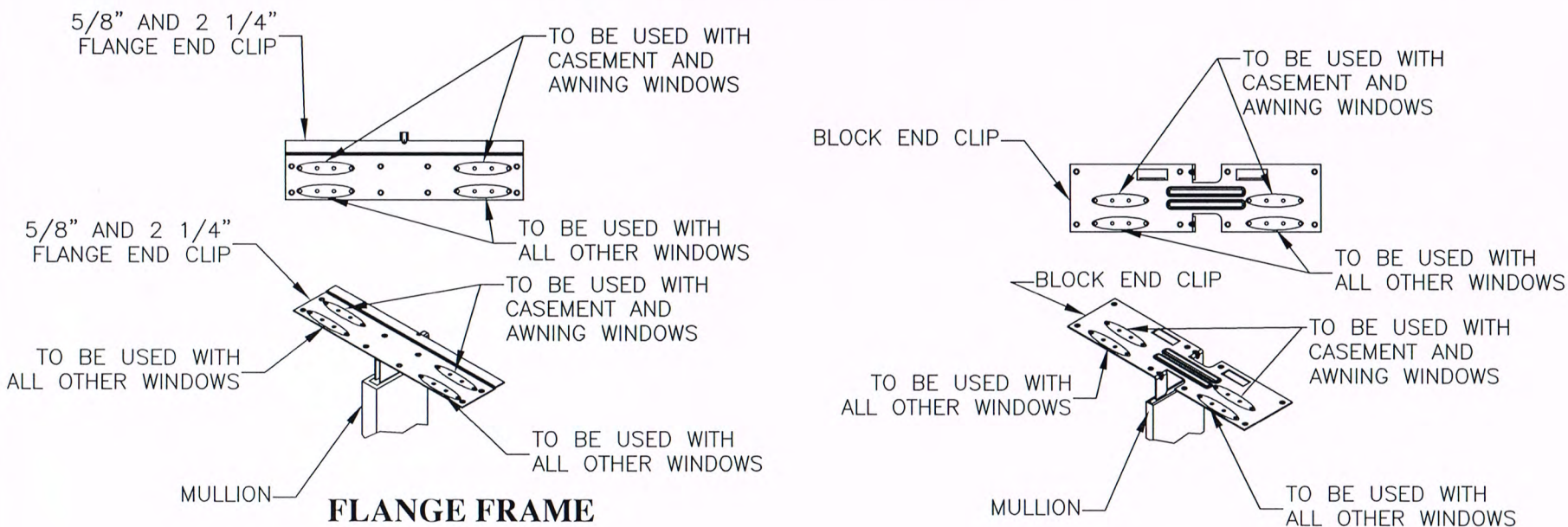
PROJECT #
414-0106

REV DESCRIPTION DATE BY

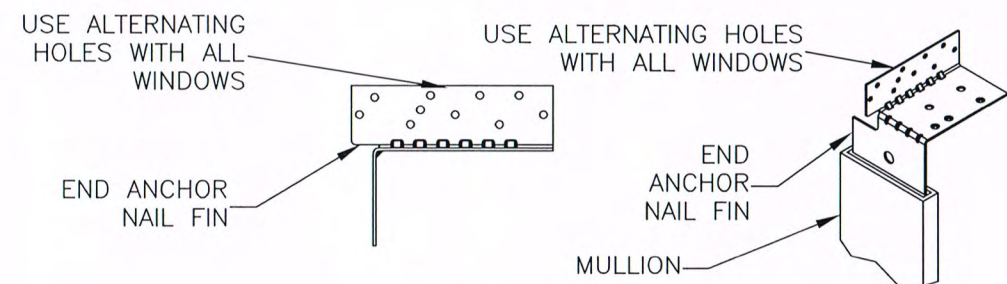
MULLION END CLIP - ATTACHMENT TO WINDOW FRAME/SUPPORTING SUBSTRATE FIN, BLOCK AND FLANGE FRAME



CLIP TO MULLION ATTACHMENT BLOCK AND FLANGE FRAME



CLIP TO MULLION ATTACHMENT FIN FRAME



SUBSTRATE ANCHOR HOLE DEFINITION BLOCK, FLANGE AND FIN FRAME

NOTES

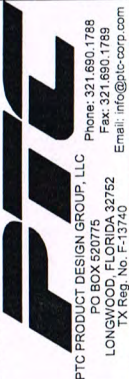
1. CLIP TO MULLION ATTACHMENT DRAWINGS ABOVE ILLUSTRATE GENERAL ARRANGEMENT OF MULLION END CLIPS, MULLION, MULLION END CLIP SUBSTRATE ANCHORAGE AND MULLION END CLIP-TO-WINDOW ANCHORAGE.
2. SUBSTRATE ANCHOR HOLE DEFINITION DRAWING ABOVE ILLUSTRATES WHICH HOLES IN THESE MULTI-HOLE CLIPS ARE UTILIZED FOR SUBSTRATE ANCHORAGE.
3. SEE SHEETS 6 AND 7 FOR SPECIFIC REQUIREMENTS RELATED TO INSTALLATION ANCHORAGE.

PROJECT #
414-0106

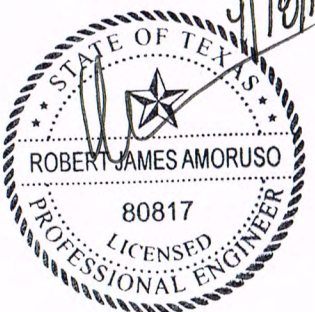
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
MULLION END CLIP - ATTACHMENT ILLUSTRATIONS

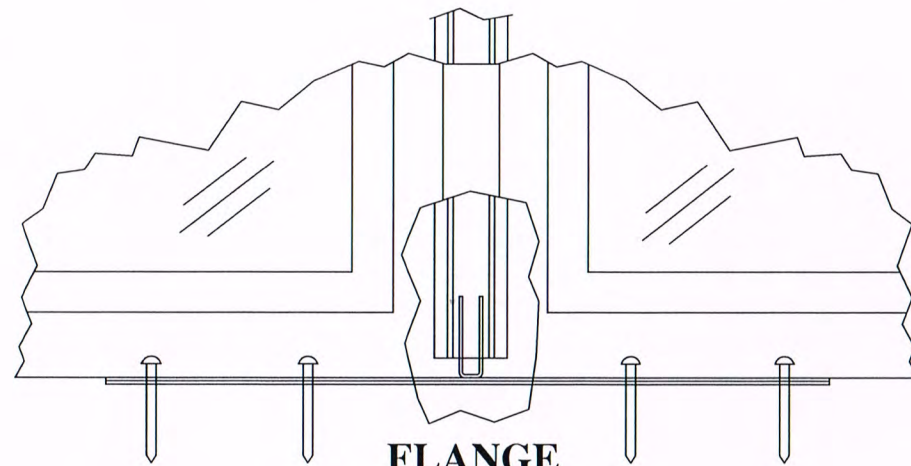
DATE:	01/28/14
DRAWN BY:	RJA
SCALE:	N.T.S.
DRAWING NO.:	PELL0036
REV.:	---
SHEET:	3 OF 26



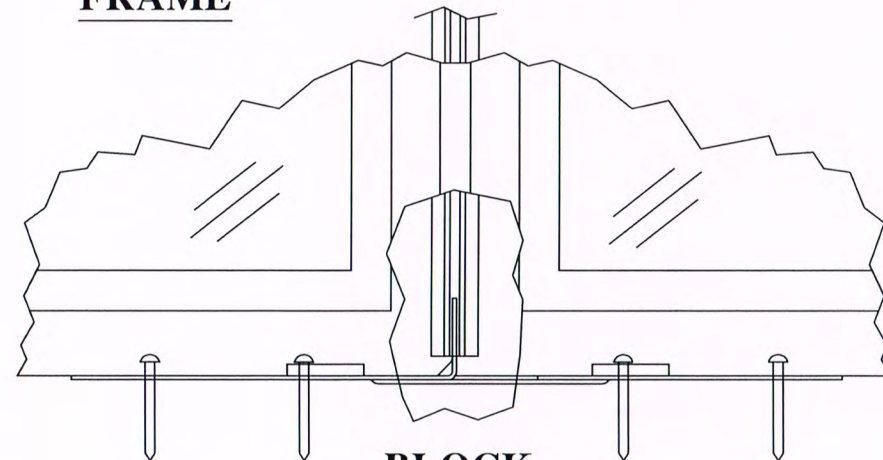
Robert J. Amoruso, P.E.
Texas PE No. 80817



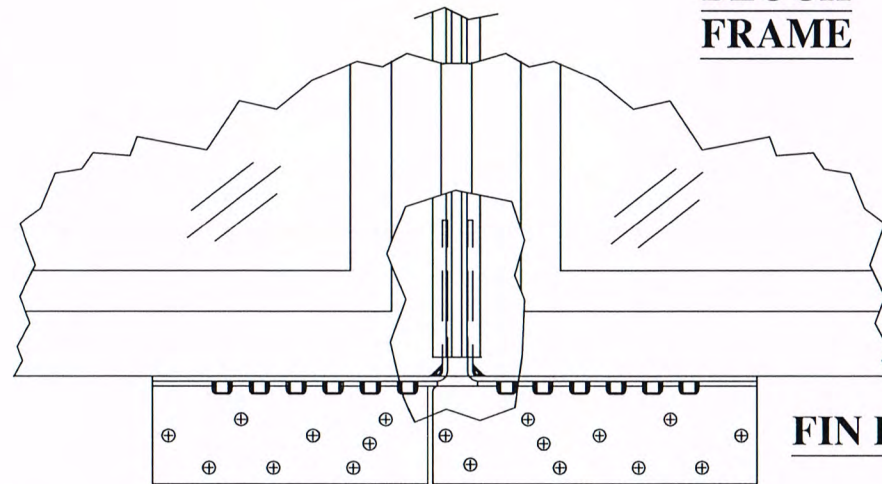
**ATTACHMENT OF WINDOW FRAME TO MULLION
FIN, BLOCK AND FLANGE FRAME**



**FLANGE
FRAME**



**BLOCK
FRAME**



FIN FRAME

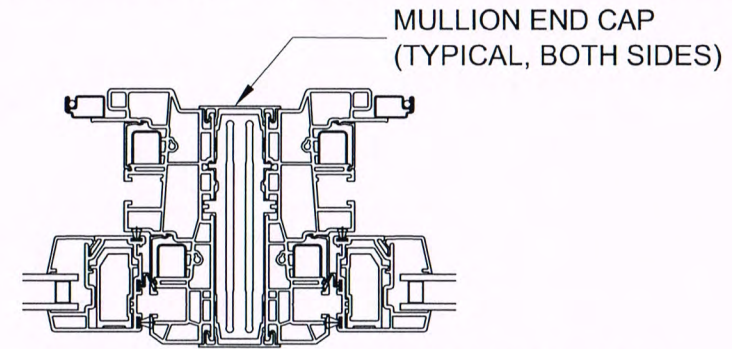
INSTALLATION NOTES

1. ATTACH MULLION CLIP TO THE WINDOW UNIT WITH THE #8 X 1/2" FLAT HEAD SCREWS AS SHOW ON SHEET 3, CLIP TO MULLION ATTACHMENT DETAILS.
2. DRILL THROUGH THE CLIP INTO THE UNIT TO ALIGN THE HOLE IN THE FRAME (ANCHOR HOLE DEFINITION ON SHEET 3, CLIP TO MULLION ATTACHMENT DETAILS).
3. INSTALL THE WINDOW UNIT IN THE OPENING. OPEN CLEARANCE HOLES THROUGH THE FRAME WHERE THE PRE-DRILLED ANCHOR HOLES WERE PREVIOUSLY PLACED AND DRIVE THE CLIP ANCHORS INTO SUPPORTING SUBSTRATE USING ANCHORS MATCHING THOSE SHOWN IN THE ANCHOR SCHEDULE ON SHEET 2.
4. WINDOW DOES NOT REQUIRE WINDOW TO MULLION ANCHORS DUE TO MULLION'S KEYED PROFILE TRANSFERING LOADING FROM WINDOW TO MULLION. END CAPS PROVIDE LOAD TRANSFER IN TENSION DUE TO WINDOW/MULLION BENDING.

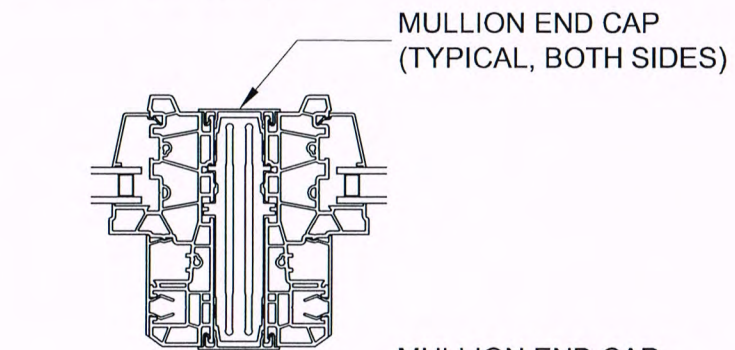
**ATTACHMENT OF WINDOW FRAME TO MULLION
SERIES 350 WINDOW TO MULLION CROSS-SECTIONS**

1" MULLION WITH AND WITHOUT (SHOWN) REINFORCEMENT

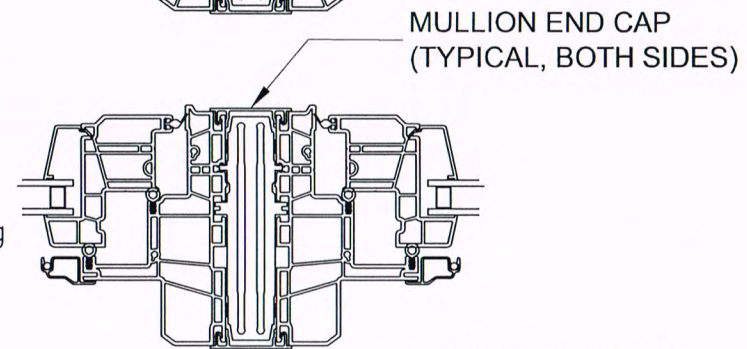
Double Hung



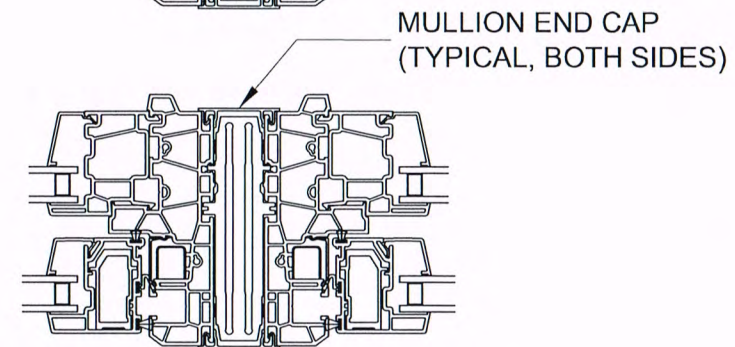
Fixed



Casement/Awning



Single Hung

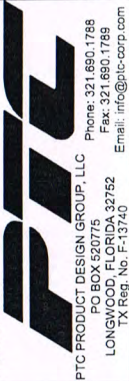


PROJECT #
414-0106

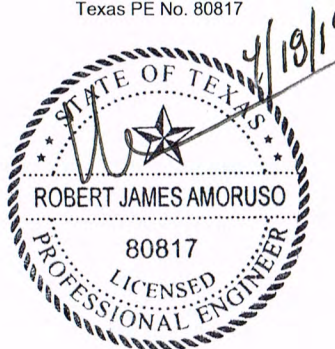
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
MULLION END CLIP - ATTACHMENT ILLUSTRATIONS

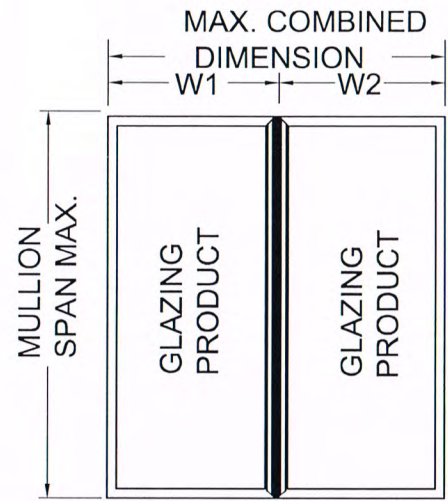
PREPARED BY: RJA
DATE: 01/28/14
DRAWING NO.: PELL0036
SCALE: N.T.S.
SHEET: 4 OF 26
REV: ---



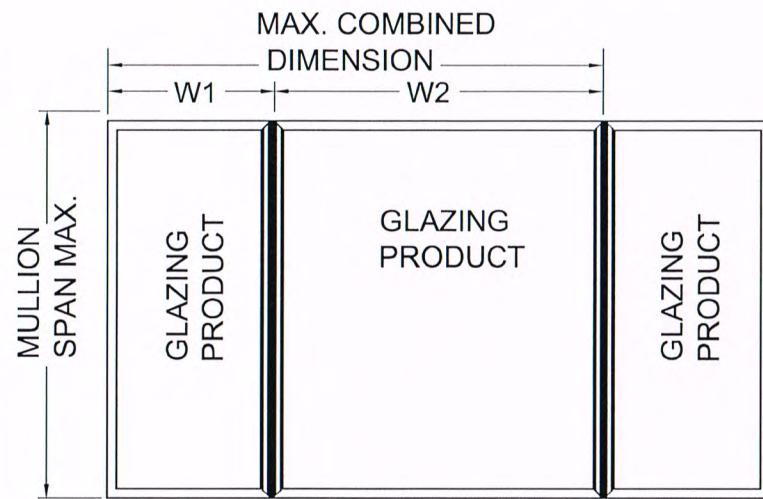
Robert J. Amoruso, P.E.
Texas PE No. 80817



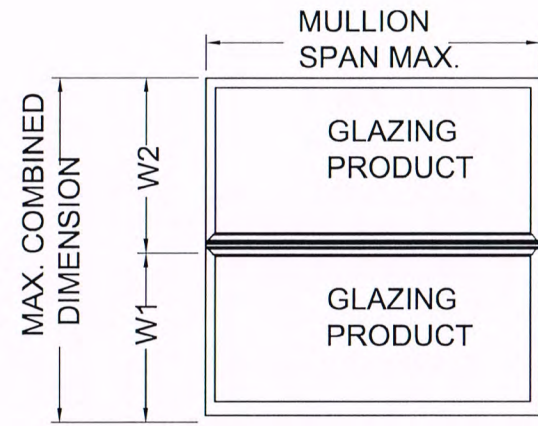
APPROVED MULLED WINDOW CONFIGURATIONS



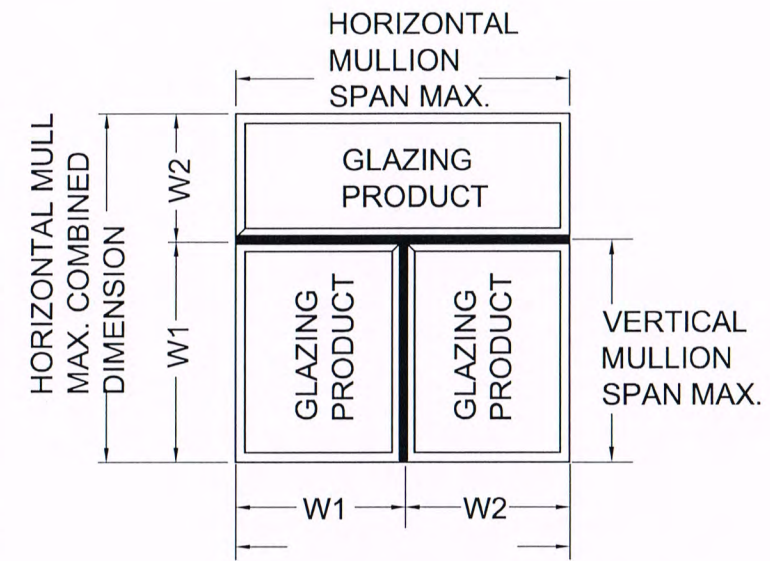
2-WAY VERTICAL
MULLION CONFIGURATION



3-WAY VERTICAL
MULLION CONFIGURATION

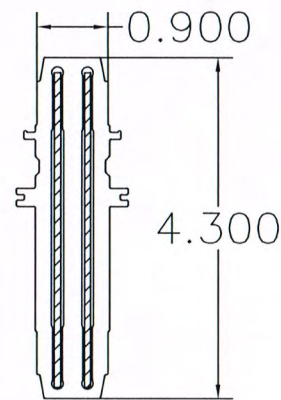


HORIZONTAL MULLION
CONFIGURATION

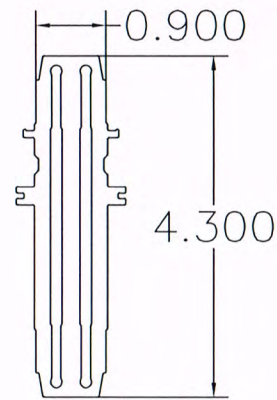


3-WAY MULLION CONFIGURATION
(HORIZONTAL MULLION IS
CONTINUOUS - VERTICAL MULLION
FRAMES INTO HORIZONTAL MULLION
AND IS UNCLIPPED, CLIPS USED AT
SUBSTRATE ENDS.)

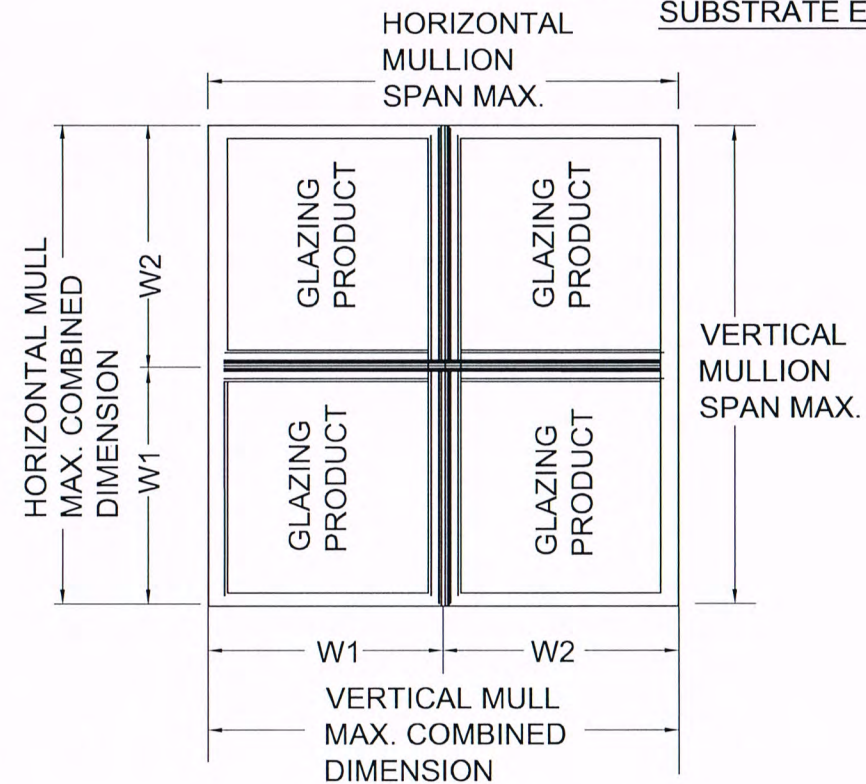
STRUCTURAL MULLIONS



V982357 MULLION
W/REINFORCEMENT
MATERIAL: 6063-T6



V982357 MULLION W/O
REINFORCEMENT
MATERIAL: 6063-T6



4-WAY MULLION CONFIGURATION
(VERTICAL AND HORIZONTAL
MULLION IS DISCONTINUOUS AND
FRAME INTO 4-WAY UNCLIPPED,
CLIPS USED AT SUBSTRATE ENDS.)

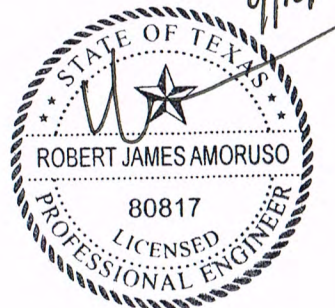
PROJECT #
414-0106

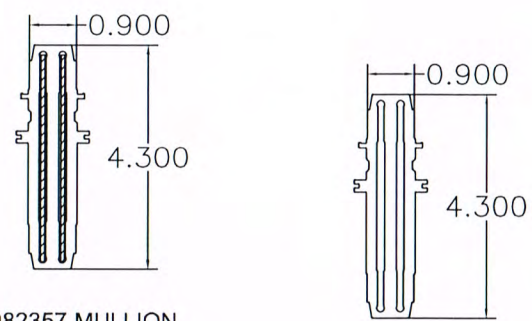
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
APPROVED MULLED WINDOW CONFIGURATIONS AND MULLIONS

PREPARED BY: PTC
DATE: 01/28/14
DRAWN BY: RJA
SCALE: N.T.S.
DRAWING NO: PELL0036
SHEET: 5 OF 26
REV: ---
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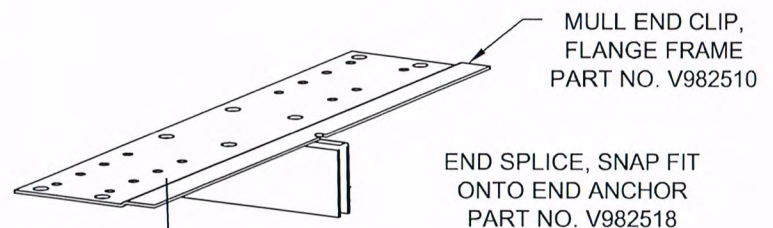
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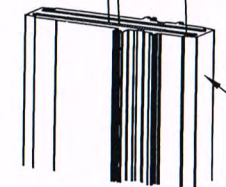
V982357 MULLION
W/REINFORCEMENT
MATERIAL: 6063-T6

V982357 MULLION W/O
REINFORCEMENT
MATERIAL: 6063-T6



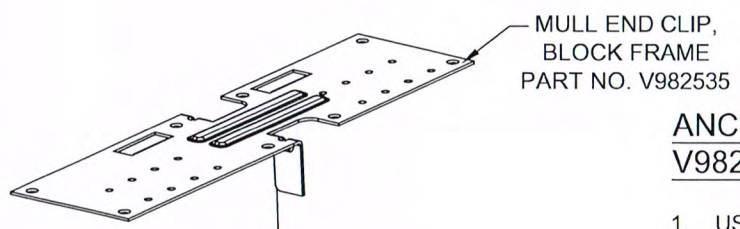
MULL END CLIP,
FLANGE FRAME
PART NO. V982510

END SPLICE, SNAP FIT
ONTO END ANCHOR
PART NO. V982518
FOR 5/8" FLANGE FRAME
(PART NO. V984416 (NOT
SHOWN HERE - SEE SHEET 36)
IS USED FOR FLUSH FLANGE
FRAME INSTALLATION)

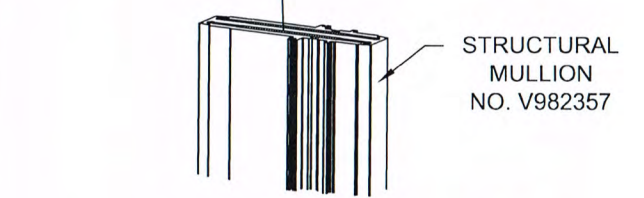


STRUCTURAL
MULLION
NO. V982357

MULLION END CLIP NO. V982510
MATERIAL: 300 SERIES STAINLESS STEEL
FOR CONCRETE/MASONRY SUBSTRATE ANCHORING.
WOOD SUBSTRATE ANCHORING.
MULLION TO STEEL/ALUMINUM SUBSTRATE ANCHORING.

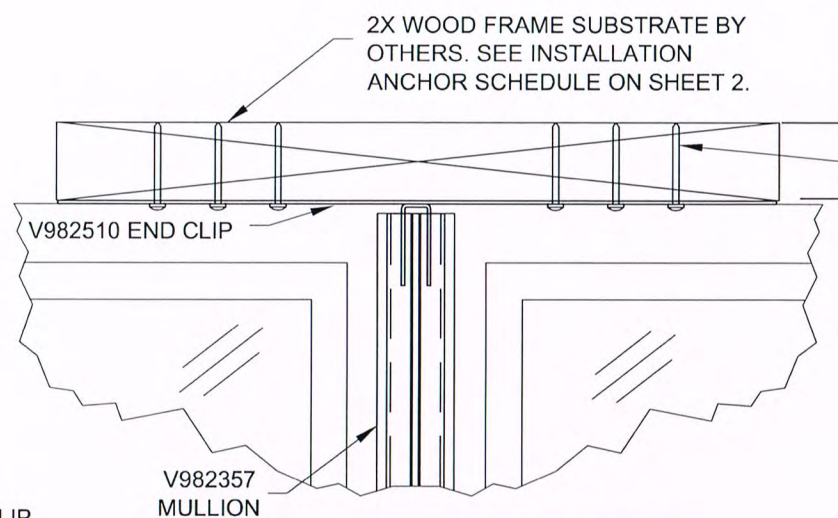


MULL END CLIP,
BLOCK FRAME
PART NO. V982535

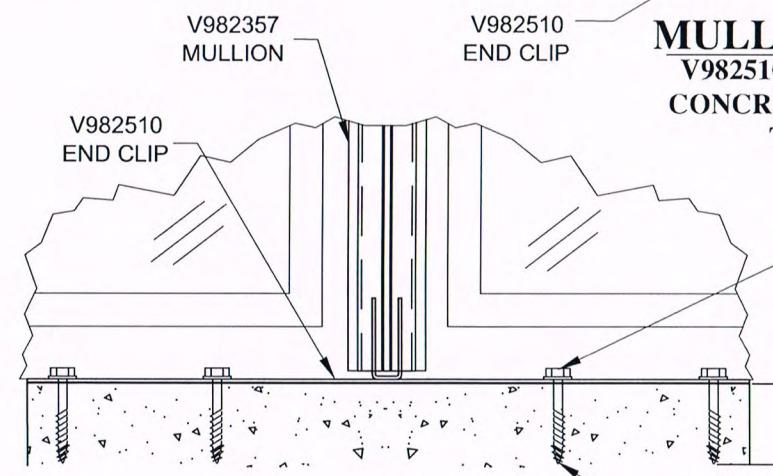


STRUCTURAL
MULLION
NO. V982357

MULLION END CLIP NO. V982535
MATERIAL: 300 SERIES STAINLESS STEEL
FOR CONCRETE/MASONRY SUBSTRATE ANCHORING.
WOOD SUBSTRATE ANCHORING
MULLION TO STEEL/ALUMINUM SUBSTRATE ANCHORING.



MULL CLIP ATTACHMENT
V982510 SHOWN - V982535 SIMILAR
WOOD FRAME SUBSTRATE
2 BY BUCK OR STUD
FRONT VIEW

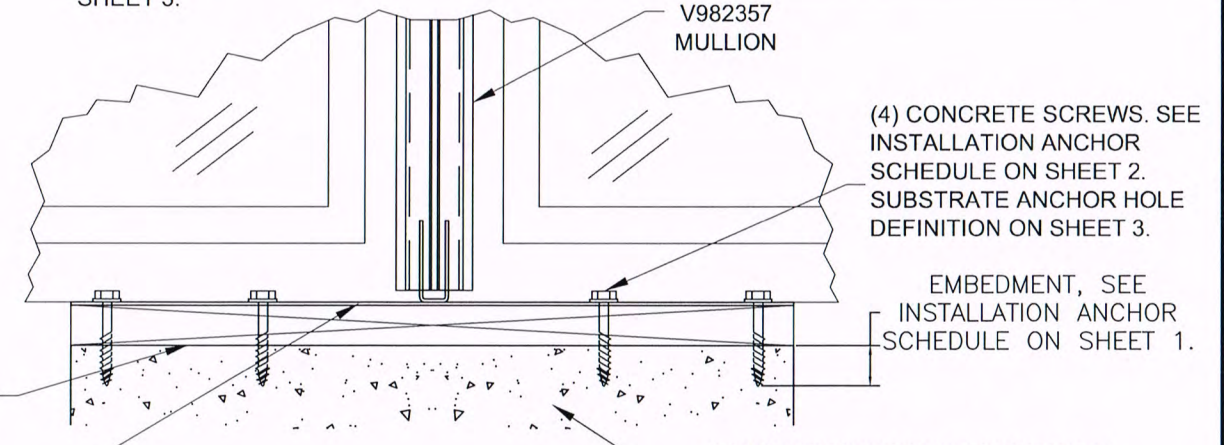


MULL CLIP ATTACHMENT
V982510 SHOWN - V982535 SIMILAR
CONCRETE / MASONRY SUBSTRATE
FRONT VIEW

EMBODIMENT, SEE INSTALLATION
ANCHOR SCHEDULE ON SHEET 2.

(6) # 10 WOOD/TAPPING
SCREWS. SEE
INSTALLATION ANCHOR
SCHEDULE ON SHEET 2.
SUBSTRATE ANCHOR
HOLE DEFINITION ON
SHEET 3.

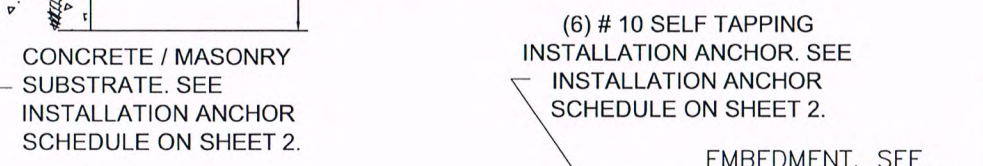
**V982510 AND V982535 MULLION
END CLIP
BLOCK AND FLANGE FRAME
INSTALLATIONS**



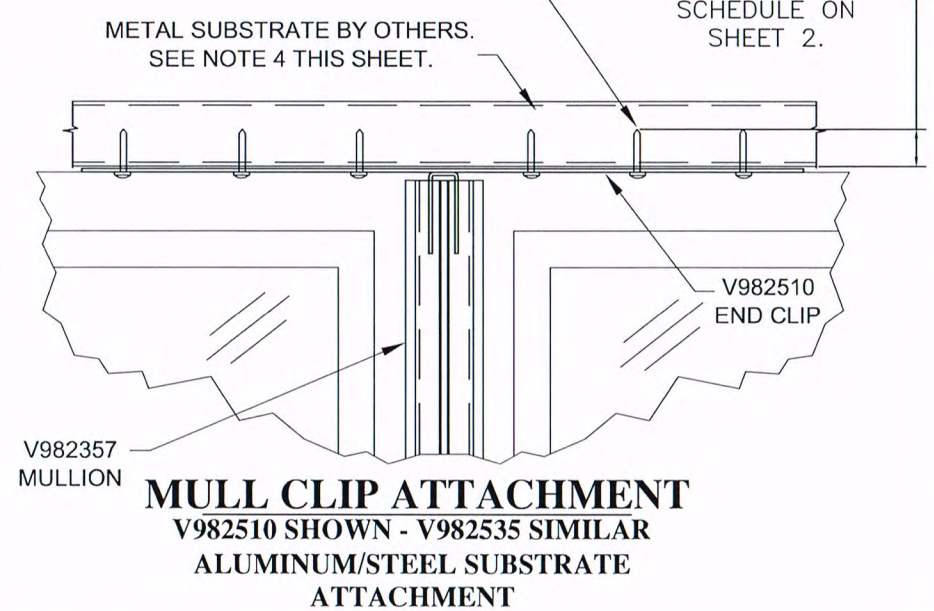
MULL CLIP ATTACHMENT
V982510 SHOWN - V982535 SIMILAR
CONCRETE / MASONRY SUBSTRATE
THROUGH 1 BY BUCK
FRONT VIEW

(4) CONCRETE SCREWS. SEE
INSTALLATION ANCHOR SCHEDULE ON
SHEET 2. SUBSTRATE ANCHOR HOLE
DEFINITION ON SHEET 3.

EMBODIMENT, SEE
INSTALLATION ANCHOR
SCHEDULE ON SHEET 1.



MULL CLIP ATTACHMENT
V982510 SHOWN - V982535 SIMILAR
ALUMINUM/STEEL SUBSTRATE
ATTACHMENT



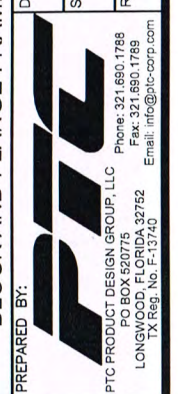
ANCHOR NOTES
V982535 AND V982510 MULL END CLIP:

- USE (1) ONE MULL CLIP INSERTED INTO EACH END OF THE MULLION. SEE DETAIL ON THIS SHEET. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR ADDITIONAL REQUIREMENTS. SUBSTRATE ANCHOR HOLE DEFINITION ON SHEET 3 FOR INSTALLATION HOLE USAGE BASED ON WINDOW TYPE.
- FOR MULL CLIP ATTACHMENT TO WOOD FRAME SUBSTRATES, USE (3) THREE NO. 10 WOOD/TAPPING SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" EMBEDMENT INTO FRAMING. SEE DETAIL ON THIS SHEET.
- FOR MULL CLIPS INTO CONCRETE / MASONRY INSTALLATION USE (2) TWO 3/16" CONCRETE SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE THE REQUIRED MINIMUM EMBEDMENT INTO CONCRETE / MASONRY SUBSTRATE SHOWN IN THE INSTALLATION ANCHOR SCHEDULE ON SHEET 2. SEE DETAILS ON THIS SHEET.
- FOR MULL END CLIP ATTACHMENT TO MIN. 1/8" A-36 STEEL, MIN. 20 GAUGE A-653 STEEL STUD AND MIN. 1/8" 6063-T5 ALUMINUM FRAME SUBSTRATES, USE (3) THREE NO. 10 SELF TAPPING SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE 3-THREAD PITCH LENGTH INTO METAL FRAMING. SEE DETAIL ON THIS SHEET.

PROJECT #
414-0106

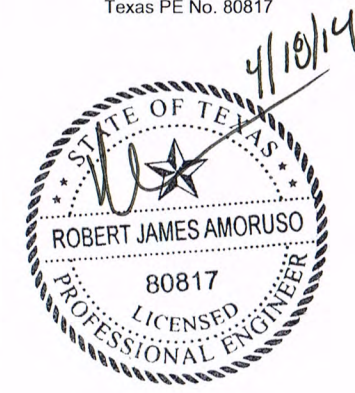
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK AND FLANGE FRAME INSTALLATIONS DETAILS

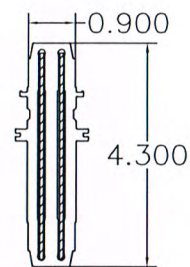


DATE:	01/28/14
DRAWN BY:	RJA
SCALE:	N.T.S.
REV:	---
DRAWING NO.:	PELL0036
SHEET:	6 OF 26

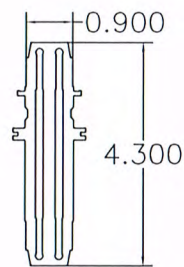
Robert J. Amoroso, P.E.
Texas PE No. 80817



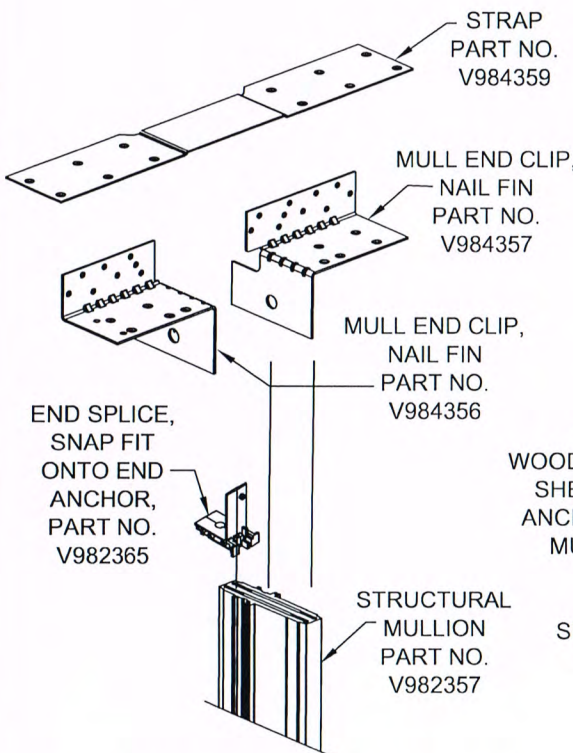
**V984356/V984357 MULLION END CLIP
FIN FRAME INSTALLATIONS**



V982357 MULLION
W/REINFORCEMENT
MATERIAL: 6063-T6



V982357 MULLION W/O
REINFORCEMENT
MATERIAL: 6063-T6

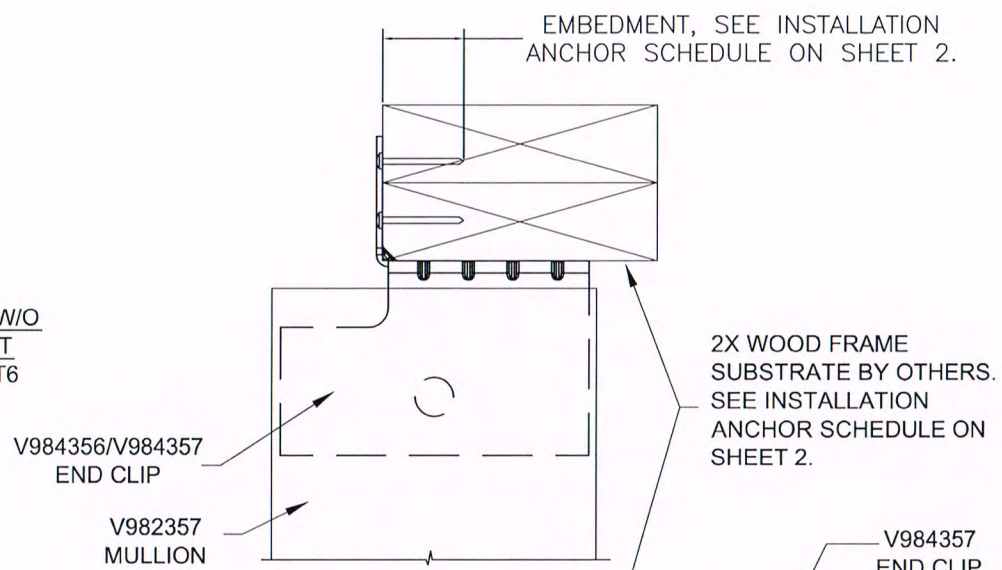


MULLION END CLIP NO. V984356/V984357
MATERIAL: 300 SERIES STAINLESS STEEL
FOR WOOD AND METAL
SUBSTRATE ANCHORING.

ANCHOR NOTES

V984356/V984357 MULL END CLIP:

1. USE (1) ONE OF EACH MULL CLIP NO. V984356 AND V984367 INSERTED INTO EACH END OF THE MULLION. SEE DETAIL ON THIS SHEET. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2 FOR ADDITIONAL REQUIREMENTS. SUBSTRATE ANCHOR HOLE DEFINITION ON SHEET 3 FOR INSTALLATION HOLE USAGE.
2. FOR MULL CLIP ATTACHMENT TO WOOD FRAME SUBSTRATES, USE (4) FOUR, (5) FIVE OR (6) SIX NO. 10 WOOD/TAPPING SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" EMBEDMENT INTO FRAMING BASED ON MULL CONFIGURATION. SEE SHEETS 21 THROUGH 26 FOR ANCHOR QUANTITY BASED ON MULL CONFIGURATION AND REINFORCEMENT. SEE DETAIL ON THIS SHEET. ANCHORS SHALL BE DIVIDED BETWEEN LH AND RH CLIPS.
3. FOR MULL END CLIP ATTACHMENT TO MIN. 1/8" A-36 STEEL, MIN. 20 GAUGE A-653 STEEL STUD AND MIN. 1/8" 6063-T5 ALUMINUM FRAME SUBSTRATES, USE NO. 10 SELF TAPPING SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE 3-THREAD PITCH LENGTH INTO METAL FRAMING IN QUANTITIES AS SHOWN ON SEE SHEETS 21 THROUGH 26 BASED ON MULL CONFIGURATION AND REINFORCEMENT. SEE DETAIL ON THIS SHEET. ANCHORS SHALL BE DIVIDED BETWEEN LH AND RH CLIPS.



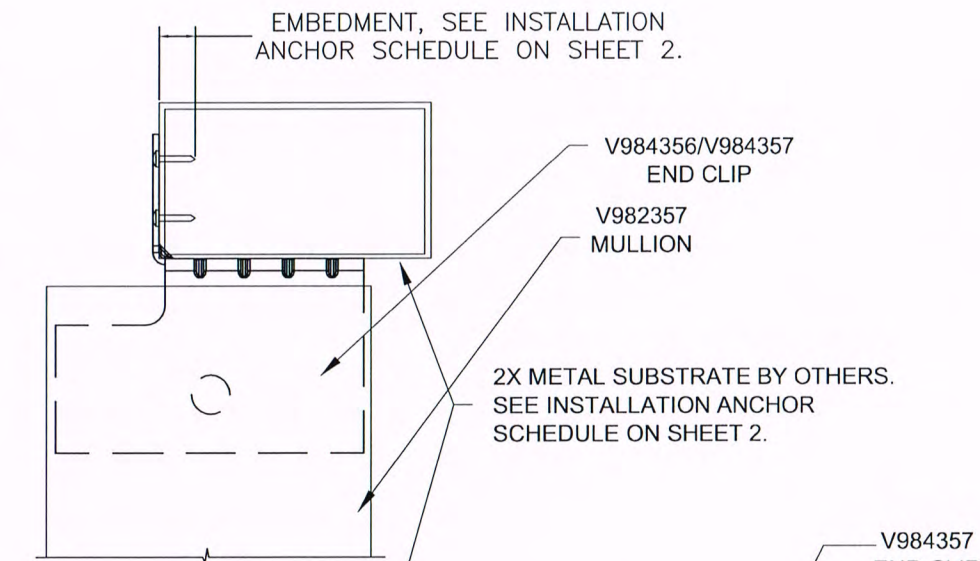
V984356
END CLIP

(4) SHOWN, (5) OR (6) # 10
WOOD/TAPPING SCREWS. SEE
SHEETS 21 THROUGH 26 FOR
ANCHOR QUANTITY BASED ON
MULL CONFIGURATION. SEE
INSTALLATION ANCHOR
SCHEDULE ON SHEET 2.
SUBSTRATE ANCHOR HOLE
DEFINITION ON SHEET 3.

MULL CLIP ATTACHMENT

**V984356/V984357
WOOD FRAME SUBSTRATE
2 BY BUCK OR STUD
FRONT VIEW**

(4) SHOWN # 10 SELF TAPPING SCREWS
- QUANTITY VARIES. SEE SHEETS 21
THROUGH 26 FOR ANCHOR QUANTITY
BASED ON MULL CONFIGURATION.
SEE INSTALLATION ANCHOR SCHEDULE
ON SHEET 2. SUBSTRATE ANCHOR HOLE
DEFINITION ON SHEET 3.



V984356
END CLIP

MULL CLIP ATTACHMENT

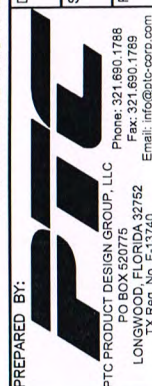
**V984356/V984357
ALUMINUM/STEEL SUBSTRATE
FRONT VIEW**

PROJECT #
414-0106

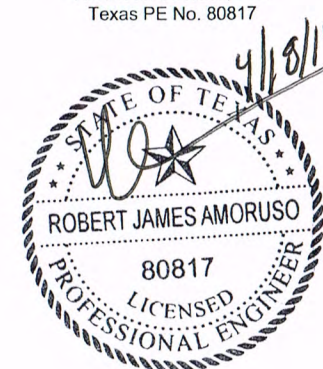
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
FIN FRAME INSTALLATIONS DETAILS

DATE:	01/28/14
DRAWING NO.:	PELL0036
SCALE:	N.T.S.
REV.:	7 OF 26
DRAWN BY:	RJA
PREPARED BY:	N.T.S.



Robert J. Amoruso, P.E.
Texas PE No. 80817



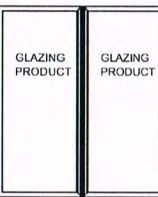
MULLION CAPACITY LOAD TABLES - INSTRUCTIONS

INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLES ON SHEETS :

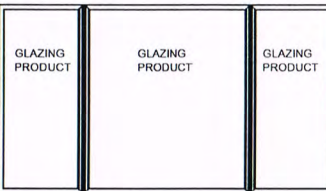
1. DETERMINE THE WIND LOAD REQUIREMENT (D.P. PSF) FOR THE PARTICULAR OPENING.
2. FOR THE PARTICULAR OPENING, DETERMINE THE LOAD WIDTH AND MULLION SPAN. REFERENCE THE SKETCHES ON THE INDIVIDUAL SHEETS FOR MULLION SPAN AND LOAD WIDTH DETERMINATION.
3. IN THE FIRST COLUMN IN THE TABLE, LOCATE MULLION SPAN. IN FIRST ROW OF THE TABLE, LOCATE THE LOAD WIDTH. AT THE INTERSECTION OF THE ROW CONTAINING THE LOAD WIDTH, READ THE MULLION LOAD RATING GIVEN IN PSF. THE MULLION LOAD RATING MUST BE EQUAL TO OR GREATER THAN THE DESIGN LOAD REQUIREMENT DEFINED IN STEP 1 ABOVE.

MULLION CONFIGURATIONS VS. LOAD CAPACITY TABLES ARE DELINEATED BELOW :

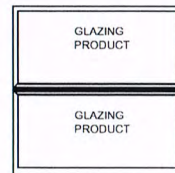
1. BASED ON ONE OR FOUR POSSIBLE CONFIGURATIONS BELOW, USE THE CORRESPONDING TABLES TO DETERMINE THE MULLION LOAD CAPACITY AS EXPLAINED ABOVE.
2. CONFIGURATIONS COVERED ARE:
 - 2.1. 1" VERTICAL UNREINFORCED & REINFORCED MULLION IN A MULTI-WIDE CONFIGURATION
 - 2.2. 1" HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A MULTI-HIGH CONFIGURATION
 - 2.3. 1" VERTICAL UNREINFORCED & REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION
 - 2.4. 1" VERTICAL UNREINFORCED & REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION



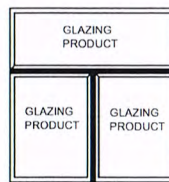
2-WAY VERTICAL MULLION CONFIGURATION



3-WAY VERTICAL MULLION CONFIGURATION



HORIZONTAL MULLION CONFIGURATION



3-WAY MULLION CONFIGURATION

1" VERTICAL UNREINFORCED & REINFORCED IN A MULLION MULTI-WIDE CONFIGURATION

BLOCK (CLIP V982535) AND FLANGE (CLIP V982510) FRAME INSTALLATION

1. UNREINFORCED MULLION
 - 1.1. TABLE 1A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 9
 - 1.2. TABLE 1B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 9
2. REINFORCED MULLION
 - 2.1. TABLE 1A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 15
 - 2.2. TABLE 1B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 15

FIN (CLIP V984356/V984357) FRAME INSTALLATION

3. UNREINFORCED AND REINFORCED MULLION
 - 3.1. TABLE 1A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 21
 - 3.2. TABLE 1B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 21

1" HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A MULTI-HIGH CONFIGURATION

BLOCK (CLIP V982535) AND FLANGE (CLIP V982510) FRAME INSTALLATION

1. UNREINFORCED MULLION
 - 1.1. TABLE 2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 10
 - 1.2. TABLE 2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 10
2. REINFORCED MULLION
 - 2.1. TABLE 2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 16
 - 2.2. TABLE 2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 16

FIN (CLIP V984356/V984357) FRAME INSTALLATION

3. UNREINFORCED AND REINFORCED MULLION
 - 3.1. TABLE 2A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 22
 - 3.2. TABLE 2B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 22

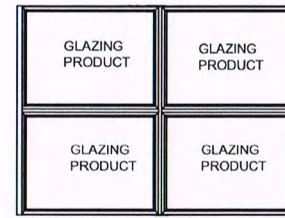
1" VERTICAL / HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK (CLIP V982535) AND FLANGE (CLIP V982510) FRAME INSTALLATION

1. UNREINFORCED VERTICAL MULLION
 - 1.1. TABLE 3.1A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 11
 - 1.2. TABLE 3.1B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 11
2. REINFORCED VERTICAL MULLION
 - 2.1. TABLE 3.1A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 17
 - 2.2. TABLE 3.1B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 17
3. UNREINFORCED HORIZONTAL MULLION
 - 3.1. TABLE 3.2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 12
 - 3.2. TABLE 3.2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 12
4. REINFORCED HORIZONTAL MULLION
 - 4.1. TABLE 3.2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 18
 - 4.2. TABLE 3.2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 18

FIN (CLIP V984356/V984357) FRAME INSTALLATION

5. UNREINFORCED AND REINFORCED VERTICAL MULLION
 - 5.1. TABLE 3.1A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 23
 - 5.2. TABLE 3.1B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 23
6. UNREINFORCED AND REINFORCED HORIZONTAL MULLION
 - 6.1. TABLE 3.1A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 24
 - 6.2. TABLE 3.1B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 24



4-WAY MULLION CONFIGURATION

1" VERTICAL/HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK (CLIP V982535) AND FLANGE (CLIP V982510) FRAME INSTALLATION

1. UNREINFORCED VERTICAL MULLION
 - 1.1. TABLE 4.1A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 13
 - 1.2. TABLE 4.1B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 13
 2. REINFORCED VERTICAL MULLION
 - 2.1. TABLE 4.1A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 19
 - 2.2. TABLE 4.1B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 19
 3. UNREINFORCED HORIZONTAL MULLION
 - 4.1. TABLE 4.2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 14
 - 4.2. TABLE 4.2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 14
 5. REINFORCED HORIZONTAL MULLION
 - 5.1. TABLE 4.2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 20
 - 5.2. TABLE 4.2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 20
- FIN (CLIP V984356/V984357) FRAME INSTALLATION
6. UNREINFORCED AND REINFORCED VERTICAL MULLION
 - 6.1. TABLE 4.1A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 25
 - 6.2. TABLE 4.1B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 25
 7. UNREINFORCED AND REINFORCED HORIZONTAL MULLION
 - 7.1. TABLE 4.2A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 26
 - 7.2. TABLE 4.2B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 26

MULLION CONFIGURATIONS VS. LOAD CAPACITY TABLES ANCHORAGE REQUIREMENTS :

1. EACH LOAD CAPACITY TABLE SHEET HAS A CORRESPONDING ANCHOR QUANTITIES (PER END CLIP) TABLE.
2. USE THIS TABLE TO INSTALL THE REQUISITE NUMBER OF ANCHORS TO ACHIEVE THE LOAD CAPACITY.
3. ANCHOR INSTALLATION IS SHOWN ON SHEET 6 AND 7.
4. SEE SHEETS 3 AND 4 FOR ADDITIONAL INFORMATION RELATED TO INSTALLATION.
5. SEE SHEET 2 FOR ANCHOR SCHEDULE.

PROJECT#
414-0106

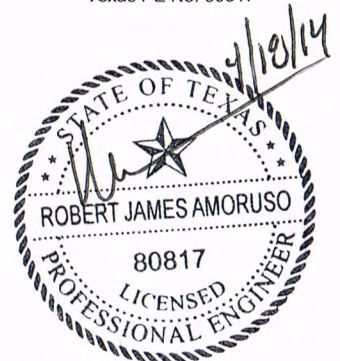
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
MULLION CAPACITY LOAD TABLES - INSTRUCTIONS

DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 8 OF 26
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

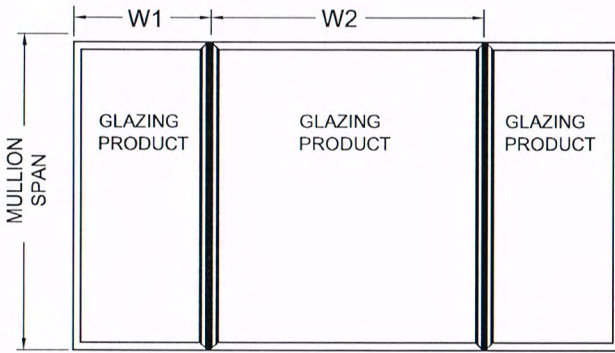
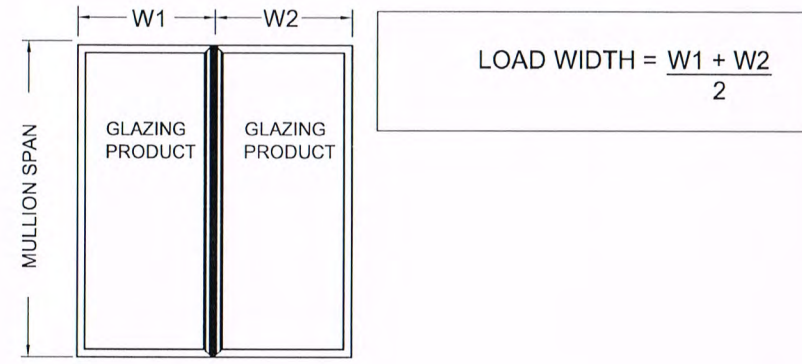
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520715
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
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Robert J. Amoruso, P.E.
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1" VERTICAL UNREINFORCED MULLION MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



MULLION TABLE 1A - WOOD SCREWS, TAPPING SCREWS AND CONCRETE SCREWS/CONCRETE (VERTICAL SPAN — 1" Structural Aluminum Mull) Vertical mull in side-by-side assembly unlimited width.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	60	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
	60	75.0		60	75.0		60	56.7
	66	75.0		66	75.0		66	54.0
72	75.0	72	75.0	72	52.0			
30	24	75.0	66	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	74.3
	42	75.0		42	75.0		42	65.6
	48	75.0		48	75.0		48	58.6
	54	75.0		54	75.0		54	53.4
	60	75.0		60	75.0		60	49.4
	66	75.0		66	75.0		66	46.4
72	75.0	72	75.0	72	44.0			
36	24	75.0	72	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	74.4
	36	75.0		36	75.0		36	62.9
	42	75.0		42	75.0		42	54.8
	48	75.0		48	75.0		48	48.9
	54	75.0		54	75.0		54	44.4
	60	75.0		60	75.0		60	41.0
	66	75.0		66	75.0		66	38.3
72	75.0	72	75.0	72	36.2			
42	24	75.0	78	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	63.1
	36	75.0		36	75.0		36	53.2
	42	75.0		42	75.0		42	46.3
	48	75.0		48	75.0		48	41.2
	54	75.0		54	75.0		54	37.4
	60	75.0		60	75.0		60	34.4
	66	75.0		66	75.0		66	32.0
72	75.0	72	75.0	72	30.2			
48	24	75.0	84	24	75.0	120	24	66.8
	30	75.0		30	75.0		30	53.9
	36	75.0		36	75.0		36	45.5
	42	75.0		42	75.0		42	39.5
	48	75.0		48	75.0		48	35.1
	54	75.0		54	73.0		54	31.7
	60	75.0		60	69.3		60	29.1
	66	75.0		66	66.7		66	27.1
72	75.0	72	65.0	72	25.5			
54	24	75.0	90	24	75.0	90	24	75.0
	30	75.0		30	75.0		30	69.1
	36	75.0		36	75.0		36	60.0
	42	75.0		42	75.0		42	53.7
	48	75.0		48	70.9		48	49.1
	54	75.0		54	66.0		54	45.7
	60	75.0		60	62.4		60	43.2
	66	75.0		66	59.7		66	41.3
72	75.0	72	57.8	72	40.0			

MULLION TABLE 1B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (VERTICAL SPAN — 1" Structural Aluminum Mull) Vertical mull in side-by-side assembly unlimited width.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	60	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	75.0		54	41.7
	60	75.0		60	75.0		60	39.3
	66	75.0		66	75.0		66	37.4
72	75.0	72	75.0	72	36.0			
30	24	75.0	66	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	75.0		36	51.4
	42	75.0		42	75.0		42	45.7
	48	75.0		48	75.0		48	41.5
	54	75.0		54	73.8		54	38.4
	60	75.0		60	72.0		60	36.0
	66	75.0		66	71.4		66	34.2
72	75.0	72	71.4	72	32.7			
36	24	75.0	72	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	75.0		36	48.0
	42	75.0		42	72.6		42	42.6
	48	75.0		48	67.5		48	38.6
	54	75.0		54	64.0		54	35.6
	60	75.0		60	61.7		60	33.2
	66	75.0		66	60.4		66	31.4
72	75.0	72	60.0	72	30.0			
42	24	75.0	78	24	75.0	114	24	63.5
	30	75.0		30	75.0		30	52.4
	36	75.0		36	72.0		36	45.0
	42	75.0		42	65.0		42	39.8
	48	75.0		48	60.0		48	36.0
	54	75.0		54	56.5		54	33.1
	60	75.0		60	54.0		60	30.9
	66	75.0		66	52.4		66	29.1
72	75.0	72	51.4	72	27.7			
48	24	75.0	84	24	75.0	120	24	60.0
	30	75.0		30	75.0		30	49.4
	36	75.0		36	75.0		36	42.4
	42	75.0		42	75.0		42	37.4
	48	75.0		48	75.0		48	33.8
	54	75.0		54	75.0		54	31.0
	60	75.0		60	75.0		60	28.8
	66	75.0		66	75.0		66	27.1
72	75.0	72	75.0	72	25.5			
54	24	75.0	90	24	75.0	90	24	75.0
	30	75.0		30	75.0		30	69.1
	36	75.0		36	75.0		36	60.0
	42	75.0		42	75.0		42	53.7
	48	75.0		48	75.0		48	49.1
	54	75.0		54	75.0		54	45.7
	60	75.0		60	75.0		60	43.2
	66	75.0		66	75.0		66	41.3
72	75.0	72	75.0	72	40.0			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

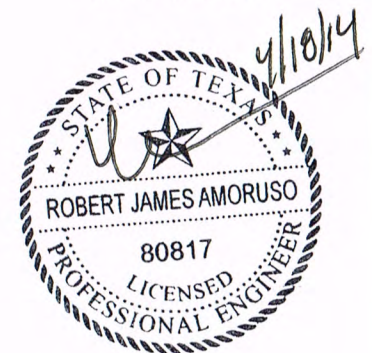
PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - UNREINFORCED MULL - TABLE 1A/B

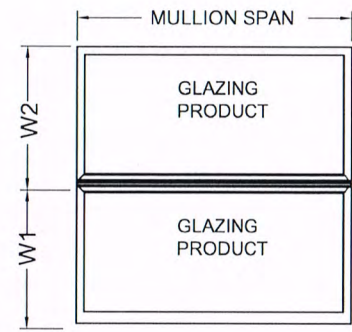
DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 9 OF 26
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520725
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.
Texas PE No. 80817



1" HORIZONTAL UNREINFORCED MULLION MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 2A - WOOD SCREWS, CONCRETE SCREWS/CONCRETE AND TAPPING SCREWS (HORIZONTAL SPAN — 1" Structural Aluminum Mull) Horizontal mull in transom-over-single assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
	60	75.0		60	75.0		60	56.7
	66	75.0		66	75.0		66	54.0
54	24	75.0	78	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	74.3
	42	75.0		42	75.0		42	65.6
	48	75.0		48	75.0		48	58.6
	54	75.0		54	75.0		54	53.4
	60	75.0		60	75.0		60	49.4
	66	75.0		66	75.0		66	46.4
60	24	75.0	84	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	74.4
	36	75.0		36	75.0		36	62.9
	42	75.0		42	75.0		42	54.8
	48	75.0		48	75.0		48	48.9
	54	75.0		54	73.0		54	44.4
	60	75.0		60	69.3		60	41.0
	66	75.0		66	66.7		66	38.3
66	24	75.0	90	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	63.1
	36	75.0		36	75.0		36	53.2
	42	75.0		42	75.0		42	46.3
	48	75.0		48	70.9		48	41.2
	54	75.0		54	66.0		54	37.4
	60	75.0		60	62.4		60	34.4
	66	75.0		66	59.7		66	32.0
120	24	66.8	120	24	66.8	120	24	60.0
	30	53.9		30	53.9		30	49.4
	36	45.5		36	45.5		36	42.4
	42	39.5		42	39.5		42	37.4
	48	35.1		48	35.1		48	33.8
	54	31.7		54	31.7		54	31.0
	60	29.1		60	29.1		60	28.8
66	27.1	66	27.1	66	27.1			

MULLION TABLE 2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL SPAN — 1" Structural Aluminum Mull) Horizontal mull in transom-over-single assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	75.0		54	41.7
	60	75.0		60	75.0		60	39.3
	66	75.0		66	75.0		66	37.4
54	24	75.0	78	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	75.0		36	51.4
	42	75.0		42	75.0		42	45.7
	48	75.0		48	75.0		48	41.5
	54	75.0		54	75.0		54	38.4
	60	75.0		60	75.0		60	36.0
	66	75.0		66	75.0		66	34.2
60	24	75.0	84	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	75.0		36	48.0
	42	75.0		42	75.0		42	42.6
	48	75.0		48	75.0		48	38.6
	54	75.0		54	75.0		54	35.6
	60	75.0		60	75.0		60	33.2
	66	75.0		66	75.0		66	31.4
66	24	75.0	90	24	75.0	114	24	63.5
	30	75.0		30	75.0		30	52.4
	36	75.0		36	75.0		36	45.0
	42	75.0		42	75.0		42	39.8
	48	75.0		48	75.0		48	36.0
	54	73.8		54	73.8		54	33.1
	60	72.0		60	72.0		60	30.9
	66	71.4		66	71.4		66	29.1
120	24	60.0	120	24	60.0	120	24	60.0
	30	49.4		30	49.4		30	49.4
	36	42.4		36	42.4		36	42.4
	42	37.4		42	37.4		42	37.4
	48	33.8		48	33.8		48	33.8
	54	31.0		54	31.0		54	31.0
	60	28.8		60	28.8		60	28.8
66	27.1	66	27.1	66	27.1			

ANCHOR QUANTITIES (PER CLIP END)

SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

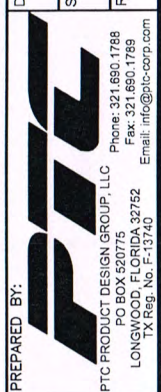
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

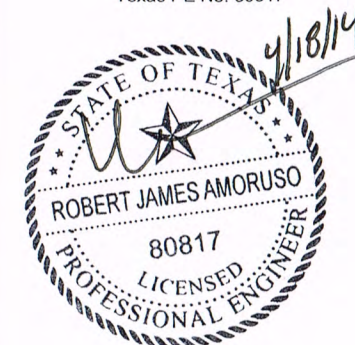
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - UNREINF. MULL - TABLE 2A/B

PREPARED BY: RJA
DRAWN BY: RJA
DATE: 01/28/14
SCALE: N.T.S.
DRAWING NO.: PELL0036
REV: ---
SHEET: 10 OF 26

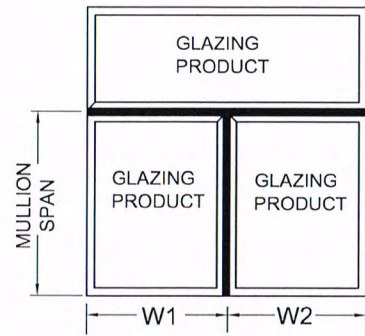


Robert J. Amoruso, P.E.
Texas PE No. 80817



1" VERTICAL UNREINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 3.1A - WOOD SCREWS, TAPPING SCREWS AND CONCRETE SCREWS/CONCRETE (VERTICAL 3-WAY SPAN — 1" Structural Aluminum Mull) Vertical mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	48	24	75.0	72	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	75.0
	60	75.0		60	75.0		60	75.0
66	75.0	66	75.0	66	75.0			
30	24	75.0	54	24	75.0	78	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	75.0
	60	75.0		60	75.0		60	75.0
66	75.0	66	75.0	66	75.0			
36	24	75.0	60	24	75.0	84	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	73.0
	60	75.0		60	75.0		60	69.3
66	75.0	66	75.0	66	66.7			
42	24	75.0	66	24	75.0	90	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	70.9
	54	75.0		54	75.0		54	66.0
	60	75.0		60	75.0		60	62.4
66	75.0	66	75.0	66	59.7			
96	24	75.0	96	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	71.3		42	71.3		42	71.3
	48	65.0		48	65.0		48	65.0
	54	60.3		54	60.3		54	60.3
	60	56.7		60	56.7		60	56.7
66	54.0	66	54.0	66	54.0			

MULLION TABLE 3.1B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (VERTICAL 3-WAY SPAN — 1" Structural Aluminum Mull) Vertical mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	48	24	75.0	72	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	72.6
	48	75.0		48	75.0		48	67.5
	54	75.0		54	75.0		54	64.0
	60	75.0		60	75.0		60	61.7
66	75.0	66	75.0	66	60.4			
30	24	75.0	54	24	75.0	78	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	72.0
	42	75.0		42	75.0		42	65.0
	48	75.0		48	75.0		48	60.0
	54	75.0		54	75.0		54	56.5
	60	75.0		60	75.0		60	54.0
66	75.0	66	75.0	66	52.4			
36	24	75.0	60	24	75.0	84	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	65.5
	42	75.0		42	75.0		42	58.8
	48	75.0		48	75.0		48	54.0
	54	75.0		54	75.0		54	50.5
	60	75.0		60	75.0		60	48.0
66	75.0	66	75.0	66	46.2			
42	24	75.0	66	24	75.0	90	24	75.0
	30	75.0		30	75.0		30	69.1
	36	75.0		36	75.0		36	60.0
	42	75.0		42	75.0		42	53.7
	48	75.0		48	75.0		48	49.1
	54	75.0		54	73.8		54	45.7
	60	75.0		60	72.0		60	43.2
66	75.0	66	71.4	66	41.3			
96	24	75.0	96	24	75.0	96	24	75.0
	30	64.0		30	64.0		30	64.0
	36	55.4		36	55.4		36	55.4
	42	49.4		42	49.4		42	49.4
	48	45.0		48	45.0		48	45.0
	54	41.7		54	41.7		54	41.7
	60	39.3		60	39.3		60	39.3
66	37.4	66	37.4	66	37.4			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

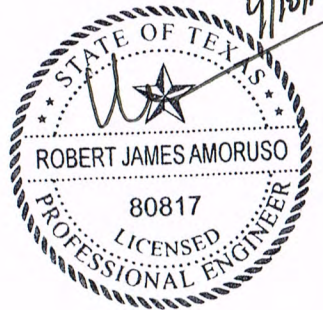
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - UNREINF. MULL - TABLE 3.1A/B



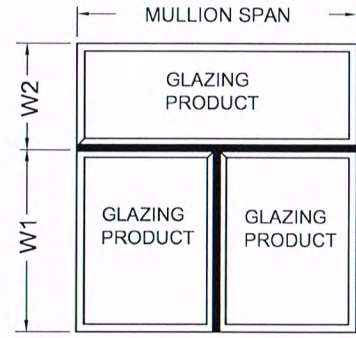
DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 11 OF 26

Robert J. Amoruso, P.E.
Texas PE No. 80817



1" HORIZONTAL UNREINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 3.2A - WOOD SCREWS, CONCRETE SCREWS/CONCRETE AND TAPPING SCREWS (HORIZONTAL 3-WAY SPAN — 1" Structural Aluminum Mull) Horizontal mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	78	24	75.0	108	24	55.2
	30	75.0		30	75.0		30	52.1
	36	75.0		36	75.0		36	49.5
	42	75.0		42	75.0		42	47.4
	48	75.0		48	75.0		48	45.5
	54	75.0		54	75.0		54	47.2
	60	75.0		60	75.0		60	43.5
	66	75.0		66	71.3		66	40.6
72	75.0	72	68.2	72	38.1			
54	24	75.0	84	24	75.0	114	24	50.2
	30	75.0		30	75.0		30	47.5
	36	75.0		36	75.0		36	45.1
	42	75.0		42	75.0		42	43.2
	48	75.0		48	75.0		48	41.5
	54	75.0		54	72.1		54	39.6
	60	75.0		60	67.6		60	36.5
	66	75.0		66	64.0		66	34.0
72	75.0	72	61.0	72	31.9			
60	24	75.0	90	24	75.0	120	24	45.9
	30	75.0		30	71.3		30	43.4
	36	75.0		36	67.6		36	41.3
	42	75.0		42	64.7		42	39.6
	48	75.0		48	70.9		48	36.9
	54	75.0		54	65.6		54	33.6
	60	75.0		60	61.4		60	30.9
	66	75.0		66	58.0		66	28.8
72	75.0	72	55.2	72	27.0			
66	24	75.0	96	24	67.8	126	24	42.2
	30	75.0		30	63.8		30	39.8
	36	75.0		36	60.6		36	37.8
	42	75.0		42	57.9		42	36.2
	48	75.0		48	65.0		48	34.8
	54	75.0		54	60.1		54	33.4
	60	75.0		60	56.2		60	32.2
	66	75.0		66	53.0		66	31.2
72	75.0	72	50.3	72	30.2			
72	24	75.0	102	24	61.0	132	24	39.8
	30	75.0		30	57.5		30	37.8
	36	75.0		36	54.6		36	36.2
	42	75.0		42	52.2		42	35.2
	48	75.0		48	50.2		48	34.2
	54	75.0		54	55.4		54	33.2
	60	75.0		60	51.8		60	32.2
	66	75.0		66	48.7		66	31.2
72	75.0	72	46.0	72	30.2			

MULLION TABLE 3.2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL 3-WAY SPAN — 1" Structural Aluminum Mull) Horizontal mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	78	24	67.2	108	24	38.2
	30	75.0		30	63.1		30	36.1
	36	75.0		36	59.8		36	34.3
	42	75.0		42	64.9		42	32.8
	48	75.0		48	59.5		48	31.5
	54	75.0		54	55.3		54	30.6
	60	75.0		60	52.0		60	29.6
	66	75.0		66	49.3		66	28.6
72	75.0	72	47.2	72	27.6			
54	24	75.0	84	24	59.2	114	24	34.8
	30	75.0		30	55.6		30	32.9
	36	75.0		36	52.7		36	31.2
	42	75.0		42	58.8		42	29.9
	48	75.0		48	53.8		48	28.8
	54	75.0		54	49.9		54	27.8
	60	75.0		60	46.8		60	26.8
	66	75.0		66	44.3		66	25.8
72	75.0	72	42.2	72	24.8			
60	24	75.0	90	24	52.5	120	24	31.8
	30	75.0		30	49.4		30	30.1
	36	75.0		36	46.8		36	28.6
	42	75.0		42	44.8		42	27.4
	48	75.0		48	49.1		48	26.3
	54	75.0		54	45.4		54	25.4
	60	75.0		60	42.5		60	24.4
	66	73.8		66	40.2		66	23.4
72	71.7	72	38.2	72	22.4			
66	24	75.0	96	24	47.0	126	24	28.8
	30	75.0		30	44.2		30	27.8
	36	75.0		36	41.9		36	26.8
	42	75.0		42	40.1		42	25.8
	48	75.0		48	45.0		48	24.8
	54	70.2		54	41.6		54	23.8
	60	66.4		60	38.9		60	22.8
	66	63.5		66	36.7		66	21.8
72	61.2	72	34.8	72	20.8			
72	24	75.0	102	24	42.2	132	24	25.6
	30	72.3		30	39.8		30	24.6
	36	75.0		36	37.8		36	23.6
	42	72.3		42	36.2		42	22.6
	48	66.5		48	34.8		48	21.6
	54	61.9		54	33.4		54	20.6
	60	58.4		60	32.2		60	19.6
	66	55.6		66	31.2		66	18.6
72	53.3	72	30.2	72	17.6			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

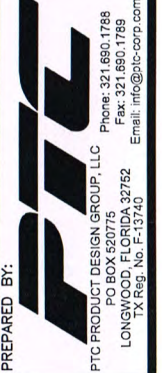
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

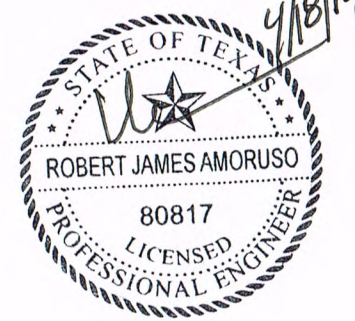
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - UNREINF. MULL - TABLE 3.2A/B

PREPARED BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 12 OF 26

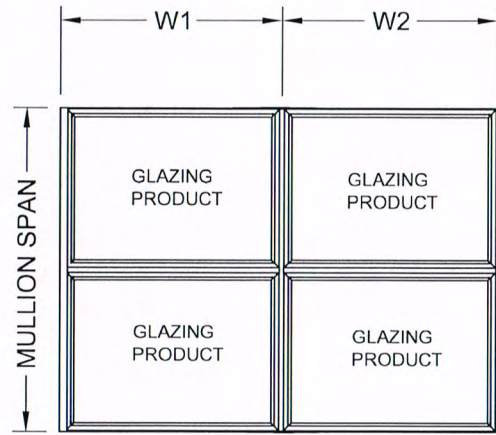


Robert J. Amoruso, P.E.
Texas PE No. 80817



1" VERTICAL UNREINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 4.1A - WOOD SCREWS, CONCRETE SCREWS/CONCRETE AND TAPPING SCREWS (VERTICAL 4-WAY SPAN — 1" Structural Aluminum Mull) Vertical mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
	60	75.0		60	75.0		60	56.7
	66	75.0		66	75.0		66	53.5
72	75.0	72	75.0	72	49.4			
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	74.3
	42	75.0		42	75.0		42	66.0
	48	75.0		48	75.0		48	59.1
	54	75.0		54	75.0		54	53.2
	60	75.0		60	75.0		60	48.4
	66	75.0		66	75.0		66	44.4
72	75.0	72	75.0	72	41.0			
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	64.4
	42	75.0		42	75.0		42	55.9
	48	75.0		48	75.0		48	49.5
	54	75.0		54	75.0		54	44.5
	60	75.0		60	75.0		60	40.5
	66	75.0		66	75.0		66	37.2
72	75.0	72	74.3	72	34.4			
54	24	75.0	84	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	64.8
	36	75.0		36	75.0		36	54.6
	42	75.0		42	75.0		42	47.3
	48	75.0		48	75.0		48	41.9
	54	75.0		54	73.0		54	37.7
	60	75.0		60	69.3		60	34.3
	66	75.0		66	66.7		66	31.5
72	75.0	72	65.0	72	29.1			
60	24	75.0	90	24	75.0	120	24	68.5
	30	75.0		30	75.0		30	55.4
	36	75.0		36	75.0		36	46.6
	42	75.0		42	75.0		42	40.4
	48	75.0		48	70.9		48	35.7
	54	75.0		54	66.0		54	32.1
	60	75.0		60	62.4		60	29.2
	66	75.0		66	59.7		66	26.8
72	75.0	72	57.8	72	24.8			

MULLION TABLE 4.1B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (VERTICAL 4-WAY SPAN — 1" Structural Aluminum Mull) Vertical mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	73.8		54	41.7
	60	75.0		60	72.0		60	39.3
	66	75.0		66	71.4		66	37.4
72	75.0	72	71.4	72	36.0			
42	24	75.0	72	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	75.0		36	51.4
	42	75.0		42	75.0		42	45.7
	48	75.0		48	75.0		48	41.5
	54	75.0		54	75.0		54	38.4
	60	75.0		60	75.0		60	36.0
	66	75.0		66	75.0		66	34.2
72	75.0	72	75.0	72	32.7			
48	24	75.0	78	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	75.0		36	48.0
	42	75.0		42	75.0		42	42.6
	48	75.0		48	75.0		48	38.6
	54	75.0		54	75.0		54	35.6
	60	75.0		60	75.0		60	33.2
	66	75.0		66	75.0		66	31.4
72	75.0	72	75.0	72	30.0			
54	24	75.0	84	24	75.0	114	24	63.5
	30	75.0		30	75.0		30	52.4
	36	75.0		36	75.0		36	45.0
	42	75.0		42	75.0		42	39.8
	48	75.0		48	75.0		48	36.0
	54	75.0		54	75.0		54	33.1
	60	75.0		60	75.0		60	30.9
	66	75.0		66	75.0		66	29.1
72	75.0	72	75.0	72	27.7			
60	24	75.0	90	24	75.0	120	24	60.0
	30	75.0		30	75.0		30	49.4
	36	75.0		36	75.0		36	42.4
	42	75.0		42	75.0		42	37.4
	48	75.0		48	75.0		48	33.8
	54	75.0		54	75.0		54	31.0
	60	75.0		60	75.0		60	28.8
	66	75.0		66	75.0		66	26.8
72	75.0	72	75.0	72	24.8			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

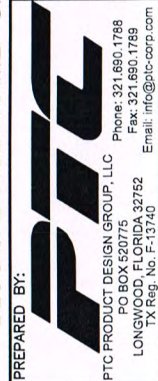
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - UNREINF. MULL - TABLE 4.1A/B

DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 13 OF 26
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---



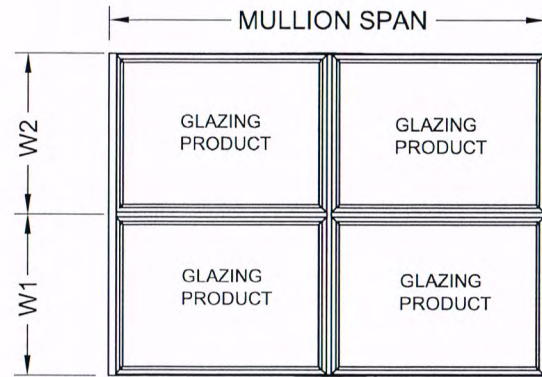
PTC PRODUCT DESIGN GROUP, LLC
P.O. BOX 52075
LONGWOOD, FLORIDA 32752
Phone: 321.680.1788
Fax: 321.680.1788
Email: info@ptc-corp.com
TX Reg. No. F-13740

Robert J. Amoruso, P.E.
Texas PE No. 80817



1" HORIZONTAL UNREINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 4.2A - WOOD SCREWS, CONCRETE SCREWS/CONCRETE AND TAPPING SCREWS (HORIZONTAL 4-WAY SPAN — 1" Structural Aluminum Mull) Horizontal mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	73.0
	48	75.0		48	75.0		48	66.5
	54	75.0		54	75.0		54	61.7
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	67.6
	48	75.0		48	75.0		48	59.9
	54	75.0		54	75.0		54	52.5
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	67.1
	42	75.0		42	75.0		42	58.3
	48	75.0		48	75.0		48	50.7
	54	75.0		54	75.0		54	44.5
54	24	75.0	84	24	75.0	114	24	70.4
	30	75.0		30	75.0		30	63.6
	36	75.0		36	75.0		36	56.4
	42	75.0		42	75.0		42	49.5
	48	75.0		48	75.0		48	43.3
	54	75.0		54	74.7		54	38.1
60	24	75.0	90	24	75.0	120	24	58.3
	30	75.0		30	75.0		30	53.3
	36	75.0		36	75.0		36	67.1
	42	75.0		42	75.0		42	42.2
	48	75.0		48	72.5		48	37.2
	54	75.0		54	67.6		54	32.8
60	75.0	60	63.8	60	29.2			

MULLION TABLE 4.2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL 4-WAY SPAN — 1" Structural Aluminum Mull) Horizontal mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	73.8		54	41.7
42	24	75.0	72	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	75.0		36	51.4
	42	75.0		42	72.6		42	45.7
	48	75.0		48	67.5		48	41.5
	54	75.0		54	64.0		54	38.4
48	24	75.0	78	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	72.0		36	48.0
	42	75.0		42	65.0		42	42.6
	48	75.0		48	60.0		48	38.6
	54	75.0		54	56.5		54	35.6
54	24	75.0	84	24	75.0	114	24	63.5
	30	75.0		30	75.0		30	52.4
	36	75.0		36	65.5		36	45.0
	42	75.0		42	58.8		42	39.8
	48	75.0		48	54.0		48	36.0
	54	75.0		54	50.5		54	33.1
60	24	75.0	90	24	75.0	120	24	58.3
	30	75.0		30	69.1		30	49.4
	36	75.0		36	60.0		36	48.0
	42	75.0		42	53.7		42	37.4
	48	75.0		48	49.1		48	33.8
	54	75.0		54	45.7		54	31.0
60	75.0	60	43.2	60	28.8			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.		
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - UNREINFORCED MULL - TABLE 4.2A/B

PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO.: PELL0036
SHEET: 14 OF 26
REV: ---



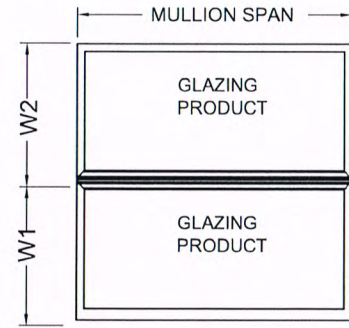
PTC PRODUCT DESIGN GROUP, LLC
100 P.O. BOX 50975
LONGWOOD, FLORIDA 32752
TX Reg. No. F-13740
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.
Texas PE No. 80817



1" HORIZONTAL REINFORCED MULLION MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 2A - WOOD SCREWS, TAPPING SCREWS & CONCRETE SCREWS/CONCRETE (HORIZONTAL SPAN — 1" Structural Aluminum Mull w/Reinforcement) Horizontal mull in transom-over-single assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
	60	75.0		60	75.0		60	56.7
66	75.0	66	75.0	66	54.0			
54	24	75.0	78	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	74.3
	42	75.0		42	75.0		42	66.0
	48	75.0		48	75.0		48	60.0
	54	75.0		54	75.0		54	55.5
	60	75.0		60	75.0		60	52.0
66	75.0	66	75.0	66	49.3			
60	24	75.0	84	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	69.3
	42	75.0		42	75.0		42	61.5
	48	75.0		48	75.0		48	55.7
	54	75.0		54	73.0		54	51.4
	60	75.0		60	69.3		60	48.0
66	75.0	66	66.7	66	45.4			
66	24	75.0	90	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	65.0
	42	75.0		42	75.0		42	57.5
	48	75.0		48	70.9		48	52.0
	54	75.0		54	66.0		54	47.8
	60	75.0		60	62.4		60	44.6
66	75.0	66	59.7	66	42.0			
						120	24	75.0
							30	71.3
							36	61.2
							42	54.0
							48	48.8
							54	44.7
							60	41.6
							66	39.1

MULLION TABLE 2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL SPAN — 1" Structural Aluminum Mull w/Reinforcement) Horizontal mull in transom-over-single assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	72.6		42	49.4
	48	75.0		48	67.5		48	45.0
	54	75.0		54	64.0		54	41.7
	60	75.0		60	61.7		60	39.3
66	75.0	66	60.4	66	37.4			
54	24	75.0	78	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	72.0		36	51.4
	42	75.0		42	65.0		42	45.7
	48	75.0		48	60.0		48	41.5
	54	75.0		54	56.5		54	38.4
	60	75.0		60	54.0		60	36.0
66	75.0	66	52.4	66	34.2			
60	24	75.0	84	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	65.5		36	48.0
	42	75.0		42	58.8		42	42.6
	48	75.0		48	54.0		48	38.6
	54	75.0		54	50.5		54	35.6
	60	75.0		60	48.0		60	33.2
66	75.0	66	46.2	66	31.4			
66	24	75.0	90	24	75.0	114	24	63.5
	30	75.0		30	69.1		30	52.4
	36	75.0		36	60.0		36	45.0
	42	75.0		42	53.7		42	39.8
	48	75.0		48	49.1		48	36.0
	54	73.8		54	45.7		54	33.1
	60	72.0		60	43.2		60	30.9
66	71.4	66	41.3	66	29.1			
						120	24	60.0
							30	49.4
							36	42.4
							42	37.4
							48	33.8
							54	31.0
							60	28.8
							66	27.1

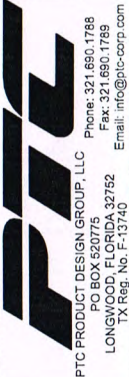
ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

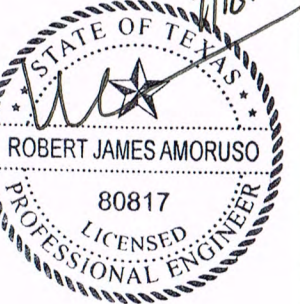
SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - REINF. MULL - TABLE 2A/B



PREPARED BY: RJA
DRAWN BY: RJA
DATE: 01/28/14
SCALE: N.T.S.
DRAWING NO: PELL0036
SHEET: 16 OF 26

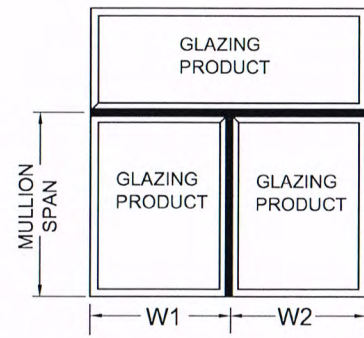
PTC PRODUCT DESIGN GROUP, LLC
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Robert J. Amoroso, P.E.
Texas PE No. 80817



1" VERTICAL REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 3.1A - WOOD SCREWS, TAPPING SCREWS & CONCRETE SCREWS/CONCRETE								
(VERTICAL 3-WAY SPAN — 1" Structural Aluminum Mull w/Reinforcement)								
Vertical mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	48	24	75.0	72	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	75.0
	60	75.0		60	75.0		60	75.0
	66	75.0		66	75.0		66	75.0
30	24	75.0	54	24	75.0	78	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	75.0
	60	75.0		60	75.0		60	75.0
	66	75.0		66	75.0		66	75.0
36	24	75.0	60	24	75.0	84	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	73.0
	60	75.0		60	75.0		60	69.3
	66	75.0		66	75.0		66	66.7
42	24	75.0	66	24	75.0	90	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	70.9
	54	75.0		54	75.0		54	66.0
	60	75.0		60	75.0		60	62.4
	66	75.0		66	75.0		66	59.7
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
	60	75.0		60	75.0		60	56.7
66	75.0	66	75.0	66	54.0			

MULLION TABLE 3.1B - CONCRETE SCREWS/MASONRY (CMU BLOCK)								
(VERTICAL 3-WAY SPAN — 1" Structural Aluminum Mull w/Reinforcement)								
Vertical mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	48	24	75.0	72	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	72.6
	48	75.0		48	75.0		48	67.5
	54	75.0		54	75.0		54	64.0
	60	75.0		60	75.0		60	61.7
	66	75.0		66	75.0		66	60.4
30	24	75.0	54	24	75.0	78	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	72.0
	42	75.0		42	75.0		42	65.0
	48	75.0		48	75.0		48	60.0
	54	75.0		54	75.0		54	56.5
	60	75.0		60	75.0		60	54.0
	66	75.0		66	75.0		66	52.4
36	24	75.0	60	24	75.0	84	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	65.5
	42	75.0		42	75.0		42	58.8
	48	75.0		48	75.0		48	54.0
	54	75.0		54	75.0		54	50.5
	60	75.0		60	75.0		60	48.0
	66	75.0		66	75.0		66	46.2
42	24	75.0	66	24	75.0	90	24	75.0
	30	75.0		30	75.0		30	69.1
	36	75.0		36	75.0		36	60.0
	42	75.0		42	75.0		42	53.7
	48	75.0		48	75.0		48	49.1
	54	75.0		54	73.8		54	45.7
	60	75.0		60	72.0		60	43.2
	66	75.0		66	71.4		66	41.3
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	75.0		54	41.7
	60	75.0		60	75.0		60	39.3
66	75.0	66	75.0	66	37.4			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - REINF. MULL - TABLE 3.1A/B

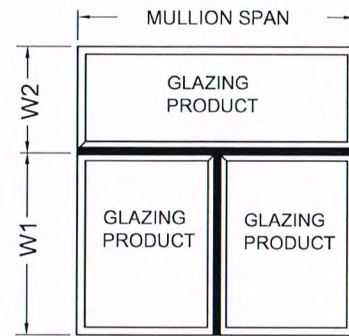
PREPARED BY: _____ DATE: 01/28/14
 DRAWN BY: RJA SCALE: N.T.S. DRAWING NO.: PELL0036
 REV: --- SHEET: 17 OF 26

PTC PRODUCT DESIGN GROUP, LLC Phone: 321.690.1788
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 TX Reg. No. F-13740

Robert J. Amoruso, P.E.
Texas PE No. 80817

1" HORIZONTAL REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 3.2A - WOOD SCREWS, TAPPING SCREWS & CONCRETE SCREWS/CONCRETE (HORIZONTAL 3-WAY SPAN — 1" Structural Aluminum Mull w/Reinforcement) Horizontal mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	78	24	75.0	108	24	55.2
	30	75.0		30	75.0		30	52.1
	36	75.0		36	75.0		36	49.5
	42	75.0		42	75.0		42	47.4
	48	75.0		48	75.0		48	45.5
	54	75.0		54	75.0		54	51.4
	60	75.0		60	75.0		60	47.9
	66	75.0		66	71.3		66	45.1
72	75.0	72	68.2	72	42.7			
54	24	75.0	84	24	75.0	114	24	50.2
	30	75.0		30	75.0		30	47.5
	36	75.0		36	75.0		36	45.1
	42	75.0		42	75.0		42	43.2
	48	75.0		48	75.0		48	41.5
	54	75.0		54	72.1		54	40.1
	60	75.0		60	67.6		60	44.6
	66	75.0		66	64.0		66	41.9
72	75.0	72	61.0	72	39.6			
60	24	75.0	90	24	75.0	120	24	45.9
	30	75.0		30	71.3		30	43.4
	36	75.0		36	67.6		36	41.3
	42	75.0		42	64.7		42	39.6
	48	75.0		48	70.9		48	38.0
	54	75.0		54	65.6		54	36.8
	60	75.0		60	61.4		60	41.6
	66	75.0		66	58.0		66	39.1
72	75.0	72	55.2	72	36.9			
66	24	75.0	96	24	67.8	126	24	47.0
	30	75.0		30	63.8		30	44.2
	36	75.0		36	60.6		36	41.9
	42	75.0		42	57.9		42	40.1
	48	75.0		48	65.0		48	45.0
	54	75.0		54	60.1		54	41.6
	60	75.0		60	56.2		60	38.9
	66	75.0		66	53.0		66	36.7
72	75.0	72	50.3	72	34.8			
72	24	75.0	102	24	61.0	132	24	42.2
	30	75.0		30	57.5		30	39.8
	36	75.0		36	54.6		36	37.8
	42	75.0		42	52.2		42	36.2
	48	75.0		48	50.2		48	34.8
	54	75.0		54	55.4		54	38.4
	60	75.0		60	51.8		60	35.8
	66	75.0		66	48.7		66	33.7
72	75.0	72	46.2	72	32.0			

MULLION TABLE 3.2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL 3-WAY SPAN — 1" Structural Aluminum Mull w/Reinforcement) Horizontal mull in 3-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
48	24	75.0	78	24	67.2	108	24	38.2
	30	75.0		30	63.1		30	36.1
	36	75.0		36	59.8		36	34.3
	42	75.0		42	64.9		42	32.8
	48	75.0		48	59.5		48	31.5
	54	75.0		54	55.3		54	35.6
	60	75.0		60	52.0		60	33.2
	66	75.0		66	49.3		66	31.2
72	75.0	72	47.2	72	29.5			
54	24	75.0	84	24	59.2	114	24	34.8
	30	75.0		30	55.6		30	32.9
	36	75.0		36	52.7		36	31.2
	42	75.0		42	58.8		42	29.9
	48	75.0		48	53.8		48	28.8
	54	75.0		54	49.9		54	27.8
	60	75.0		60	46.8		60	30.8
	66	75.0		66	44.3		66	29.0
72	75.0	72	42.2	72	27.4			
60	24	75.0	90	24	52.5	120	24	31.8
	30	75.0		30	49.4		30	30.1
	36	75.0		36	46.8		36	28.6
	42	75.0		42	44.8		42	27.4
	48	75.0		48	49.1		48	26.3
	54	75.0		54	45.4		54	25.4
	60	75.0		60	42.5		60	28.8
	66	73.8		66	40.2		66	27.0
72	71.7	72	38.2	72	25.6			
66	24	75.0	96	24	47.0	126	24	47.0
	30	75.0		30	44.2		30	44.2
	36	75.0		36	41.9		36	41.9
	42	75.0		42	40.1		42	40.1
	48	75.0		48	45.0		48	45.0
	54	70.2		54	41.6		54	41.6
	60	66.4		60	38.9		60	38.9
	66	63.5		66	36.7		66	36.7
72	61.2	72	34.8	72	34.8			
72	24	75.0	102	24	42.2	132	24	42.2
	30	72.3		30	39.8		30	39.8
	36	75.0		36	37.8		36	37.8
	42	72.3		42	36.2		42	36.2
	48	66.5		48	34.8		48	34.8
	54	61.9		54	38.4		54	38.4
	60	58.4		60	35.8		60	35.8
	66	55.6		66	33.7		66	33.7
72	53.3	72	32.0	72	32.0			

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.		
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

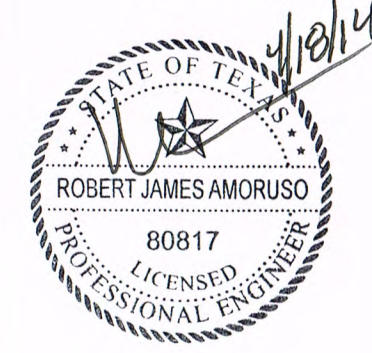
PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - REINF. MULL - TABLE 3.2A/B

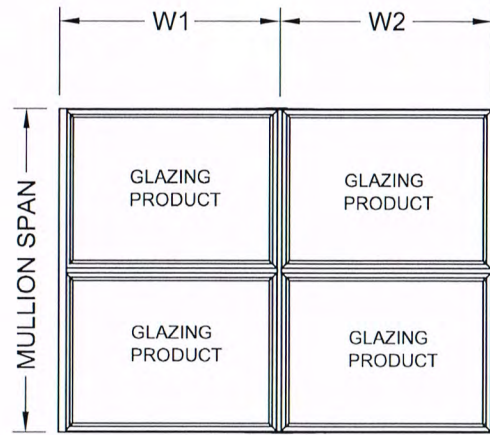
PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 18 OF 26

Robert J. Amoruso, P.E.
Texas PE No. 80817



1" VERTICAL REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 4.1A - WOOD SCREWS, TAPPING SCREWS & CONCRETE SCREWS/CONCRETE
(VERTICAL 4-WAY SPAN — 1" Structural Aluminum Mull w/Reinforcement)
Vertical mull in 4-way transom/side-by-side assembly.

MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
	60	75.0		60	75.0		60	56.7
	66	75.0		66	75.0		66	54.0
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	74.3
	42	75.0		42	75.0		42	66.0
	48	75.0		48	75.0		48	60.0
	54	75.0		54	75.0		54	55.5
	60	75.0		60	75.0		60	52.0
	66	75.0		66	75.0		66	49.3
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	69.3
	42	75.0		42	75.0		42	61.5
	48	75.0		48	75.0		48	55.7
	54	75.0		54	75.0		54	51.4
	60	75.0		60	75.0		60	48.0
	66	75.0		66	75.0		66	45.4
54	24	75.0	84	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	65.0
	42	75.0		42	75.0		42	57.5
	48	75.0		48	75.0		48	52.0
	54	75.0		54	73.0		54	47.8
	60	75.0		60	69.3		60	44.6
	66	75.0		66	66.7		66	42.0
60	24	75.0	90	24	75.0	120	24	75.0
	30	75.0		30	75.0		30	71.3
	36	75.0		36	75.0		36	61.2
	42	75.0		42	75.0		42	54.0
	48	75.0		48	70.9		48	48.8
	54	75.0		54	66.0		54	44.7
	60	75.0		60	62.4		60	41.6
	66	75.0		66	59.7		66	39.1

MULLION TABLE 4.1B - CONCRETE SCREWS/MASONRY (CMU BLOCK)
(VERTICAL 4-WAY SPAN — 1" Structural Aluminum Mull w/Reinforcement)
Vertical mull in 4-way transom/side-by-side assembly.

MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	73.8		54	41.7
	60	75.0		60	72.0		60	39.3
	66	75.0		66	71.4		66	37.4
42	24	75.0	72	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	75.0		36	51.4
	42	75.0		42	72.6		42	45.7
	48	75.0		48	67.5		48	41.5
	54	75.0		54	64.0		54	38.4
	60	75.0		60	61.7		60	36.0
	66	75.0		66	60.4		66	34.2
48	24	75.0	78	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	72.0		36	48.0
	42	75.0		42	65.0		42	42.6
	48	75.0		48	60.0		48	38.6
	54	75.0		54	56.5		54	35.6
	60	75.0		60	54.0		60	33.2
	66	75.0		66	52.4		66	31.4
54	24	75.0	84	24	75.0	114	24	63.5
	30	75.0		30	75.0		30	52.4
	36	75.0		36	65.5		36	45.0
	42	75.0		42	58.8		42	39.8
	48	75.0		48	54.0		48	36.0
	54	75.0		54	50.5		54	33.1
	60	75.0		60	48.0		60	30.9
	66	75.0		66	46.2		66	29.1
60	24	75.0	90	24	75.0	120	24	60.0
	30	75.0		30	69.1		30	49.4
	36	75.0		36	60.0		36	42.4
	42	75.0		42	53.7		42	37.4
	48	75.0		48	49.1		48	33.8
	54	75.0		54	45.7		54	31.0
	60	75.0		60	43.2		60	28.8
	66	75.0		66	41.3		66	27.1

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

Robert J. Amoruso, P.E.
Texas PE No. 80817

PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - REINF. MULL - TABLE 4.1A/B

DATE: 01/28/14
DRAWING NO.: PELL0036
SHEET: 19 OF 26

PREPARED BY: RJA
SCALE: N.T.S.
REV: ---

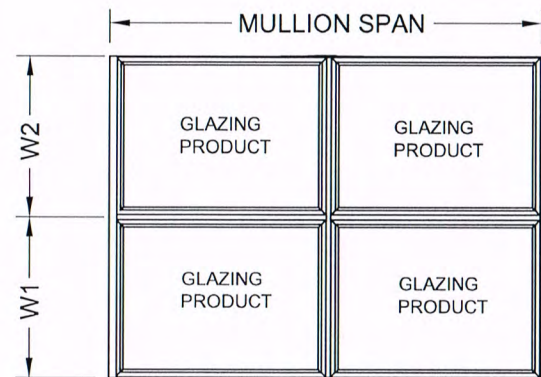
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
TX Reg. No. F-13740
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

BY
DATE

DESCRIPTION
REV

1" HORIZONTAL REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) AND FLANGE FRAME (CLIP V982510) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	71.3
	48	75.0		48	75.0		48	65.0
	54	75.0		54	75.0		54	60.3
60	75.0	60	75.0	60	56.7			
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	74.3
	42	75.0		42	75.0		42	66.0
	48	75.0		48	75.0		48	60.0
	54	75.0		54	75.0		54	55.5
60	75.0	60	75.0	60	52.0			
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	69.3
	42	75.0		42	75.0		42	61.5
	48	75.0		48	75.0		48	55.7
	54	75.0		54	75.0		54	51.4
60	75.0	60	75.0	60	48.0			
54	24	75.0	84	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	65.0
	42	75.0		42	75.0		42	57.5
	48	75.0		48	75.0		48	52.0
	54	75.0		54	73.0		54	47.8
60	75.0	60	69.3	60	44.6			
60	24	75.0	90	24	75.0	120	24	75.0
	30	75.0		30	75.0		30	71.3
	36	75.0		36	75.0		36	69.3
	42	75.0		42	75.0		42	54.0
	48	75.0		48	70.9		48	48.8
	54	75.0		54	66.0		54	44.7
60	75.0	60	62.4	60	41.6			

MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	64.0
	36	75.0		36	75.0		36	55.4
	42	75.0		42	75.0		42	49.4
	48	75.0		48	75.0		48	45.0
	54	75.0		54	73.8		54	41.7
60	75.0	60	72.0	60	39.3			
42	24	75.0	72	24	75.0	102	24	72.0
	30	75.0		30	75.0		30	59.6
	36	75.0		36	75.0		36	51.4
	42	75.0		42	72.6		42	45.7
	48	75.0		48	67.5		48	41.5
	54	75.0		54	64.0		54	38.4
60	75.0	60	61.7	60	36.0			
48	24	75.0	78	24	75.0	108	24	67.5
	30	75.0		30	75.0		30	55.7
	36	75.0		36	72.0		36	48.0
	42	75.0		42	65.0		42	42.6
	48	75.0		48	60.0		48	38.6
	54	75.0		54	56.5		54	35.6
60	75.0	60	54.0	60	33.2			
54	24	75.0	84	24	75.0	114	24	63.5
	30	75.0		30	75.0		30	52.4
	36	75.0		36	65.5		36	45.0
	42	75.0		42	58.8		42	39.8
	48	75.0		48	54.0		48	36.0
	54	75.0		54	50.5		54	33.1
60	75.0	60	48.0	60	30.9			
60	24	75.0	90	24	75.0	120	24	60.0
	30	75.0		30	69.1		30	49.4
	36	75.0		36	60.0		36	48.0
	42	75.0		42	53.7		42	37.4
	48	75.0		48	49.1		48	33.8
	54	75.0		54	45.7		54	31.0
60	75.0	60	43.2	60	28.8			

SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	4
MASONRY (CMU BLOCK)	CONCRETE SCREW	4
WOOD	WOOD OR TAPPING SCREW	6
1/8" THICK ASTM A-36	TAPPING SCREW	6
1/8" THICK 6063-T5	TAPPING SCREW	6
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	6

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
414-0106

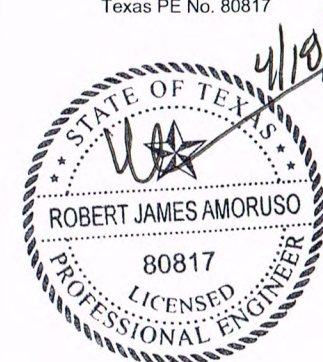
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
BLOCK/FLANGE FRAME - REINF. MULL - TABLE 4.2A/B



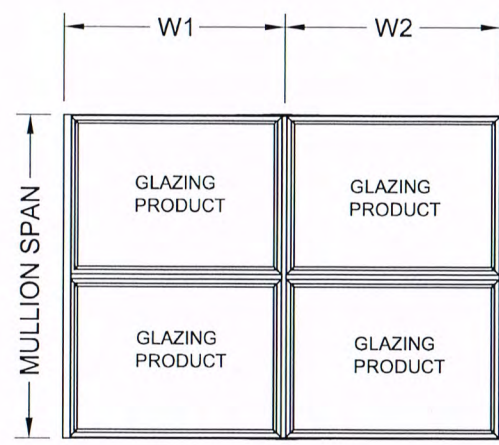
PREPARED BY:
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---
DATE: 01/28/14
DRAWING NO.: PELL0036
SHEET: 20 OF 26

Robert J. Amoruso, P.E.
Texas PE No. 80817



1" VERTICAL UNREINF. & REINF. MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

FIN FRAME (CLIP V984356/V984357) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

MULLION TABLE 4.1A (VERTICAL 4-WAY SPAN — 1" Aluminum Reinforcing Mull) Vertical mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	71.3
	54	75.0		54	75.0		54	64.2
	60	75.0		60	75.0		60	58.4
	66	75.0		66	75.0		66	53.5
72	75.0	72	75.0	72	49.4			
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	66.7
	48	75.0		48	75.0		48	59.1
	54	75.0		54	75.0		54	53.2
	60	75.0		60	75.0		60	48.4
	66	75.0		66	75.0		66	44.4
72	75.0	72	75.0	72	41.0			
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	64.4
	42	75.0		42	75.0		42	55.9
	48	75.0		48	75.0		48	49.5
	54	75.0		54	75.0		54	44.5
	60	75.0		60	75.0		60	40.5
	66	75.0		66	75.0		66	37.2
72	75.0	72	75.0	72	34.4			
54	24	75.0	84	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	64.8
	36	75.0		36	75.0		36	54.6
	42	75.0		42	75.0		42	47.3
	48	75.0		48	75.0		48	41.9
	54	75.0		54	75.0		54	37.7
	60	75.0		60	75.0		60	34.3
	66	75.0		66	74.2		66	31.5
72	75.0	72	68.0	72	29.1			
60	24	75.0	90	24	75.0	120	24	68.5
	30	75.0		30	75.0		30	55.4
	36	75.0		36	75.0		36	46.6
	42	75.0		42	75.0		42	40.4
	48	75.0		48	75.0		48	35.7
	54	75.0		54	75.0		54	32.1
	60	75.0		60	71.1		60	29.2
	66	75.0		66	64.6		66	26.8
72	75.0	72	59.2	72	24.8			

MULLION TABLE 4.1B (VERTICAL 4-WAY SPAN — 1" Aluminum Reinforcing Mull w/Reinforcement) Vertical mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	74.2
	60	75.0		60	75.0		60	69.8
	66	75.0		66	75.0		66	66.5
72	75.0	72	75.0	72	64.0			
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	73.8
	54	75.0		54	75.0		54	68.3
	60	75.0		60	75.0		60	64.0
	66	75.0		66	75.0		66	60.7
72	75.0	72	75.0	72	58.2			
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	68.6
	54	75.0		54	75.0		54	63.2
	60	75.0		60	75.0		60	59.1
	66	75.0		66	75.0		66	55.9
72	75.0	72	75.0	72	52.9			
54	24	75.0	84	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	70.8
	48	75.0		48	75.0		48	64.0
	54	75.0		54	75.0		54	58.0
	60	75.0		60	75.0		60	52.8
	66	75.0		66	75.0		66	48.4
72	75.0	72	75.0	72	44.8			
60	24	75.0	90	24	75.0	120	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	71.8
	42	75.0		42	75.0		42	62.2
	48	75.0		48	75.0		48	55.0
	54	75.0		54	75.0		54	49.4
	60	75.0		60	75.0		60	45.0
	66	75.0		66	73.5		66	41.3
72	75.0	72	71.1	72	38.2			

TABLE 4.1A ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	4
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	7
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	9

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

TABLE 4.1B ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	4
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	7
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	9

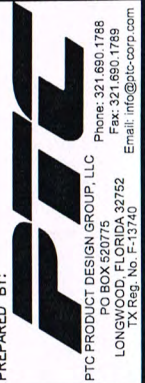
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT #
4-14-0106

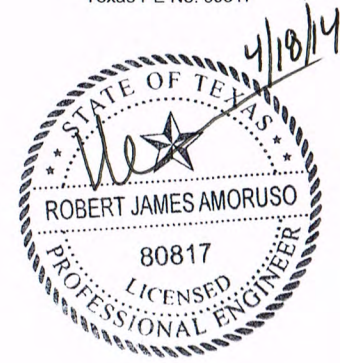
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 4.1A/B

PREPARED BY: RJA
DRAWN BY: RJA
DATE: 01/28/14
SCALE: N.T.S.
DRAWING NO: PELL0036
REV: ---
SHEET: 25 OF 26

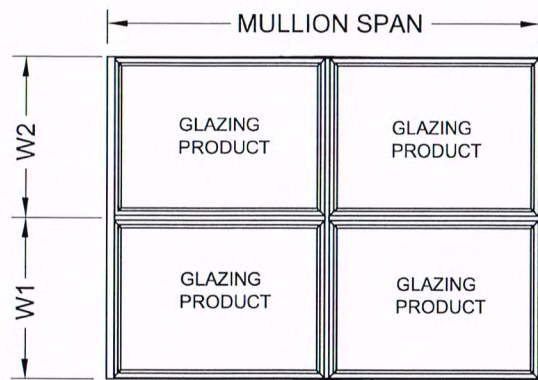


Robert J. Amoruso, P.E.
Texas PE No. 80817



1" HORIZONTAL UNREINF. & REINF. MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

FIN FRAME (CLIP V984356/V984357) INSTALLATION



$$\text{LOAD WIDTH} = \frac{W1 + W2}{2}$$

SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	4
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	7
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	9

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	4
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	7
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	9

1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	71.3
	54	75.0		54	75.0		54	62.5
	60	75.0		60	75.0		60	55.1
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	69.2
	48	75.0		48	75.0		48	59.9
	54	75.0		54	75.0		54	52.5
	60	75.0		60	75.0		60	46.5
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	67.1
	42	75.0		42	75.0		42	58.3
	48	75.0		48	75.0		48	50.7
	54	75.0		54	75.0		54	44.5
	60	75.0		60	75.0		60	39.6
54	24	75.0	84	24	75.0	114	24	70.4
	30	75.0		30	75.0		30	63.6
	36	75.0		36	75.0		36	56.4
	42	75.0		42	75.0		42	49.5
	48	75.0		48	75.0		48	43.3
	54	75.0		54	75.0		54	38.1
	60	75.0		60	75.0		60	33.9
60	24	75.0	90	24	75.0	120	24	58.3
	30	75.0		30	75.0		30	53.3
	36	75.0		36	75.0		36	67.1
	42	75.0		42	75.0		42	42.2
	48	75.0		48	75.0		48	37.2
	54	75.0		54	75.0		54	32.8
	60	75.0		60	65.8		60	29.2

MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	75.0
	54	75.0		54	75.0		54	74.2
	60	75.0		60	75.0		60	69.8
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	73.8
	54	75.0		54	75.0		54	68.3
	60	75.0		60	75.0		60	64.0
48	24	75.0	78	24	75.0	108	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	75.0
	48	75.0		48	75.0		48	68.6
	54	75.0		54	75.0		54	63.2
	60	75.0		60	75.0		60	59.1
54	24	75.0	84	24	75.0	114	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	70.8
	48	75.0		48	75.0		48	64.0
	54	75.0		54	75.0		54	58.6
	60	75.0		60	75.0		60	52.2
60	24	75.0	90	24	75.0	120	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	75.0
	42	75.0		42	75.0		42	65.0
	48	75.0		48	75.0		48	57.2
	54	75.0		54	75.0		54	50.5
	60	75.0		60	75.0		60	45.0

PROJECT #
414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1" STRUCTURAL MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 4.2A/B



DATE: 01/28/14
DRAWING NO: PELL0036
SHEET: 26 OF 26
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

Robert J. Amoruso, P.E.
Texas PE No. 80817

