

PELLA CORPORATION

SERIES 350 VINYL WINDOW 1/2" STANDARD

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

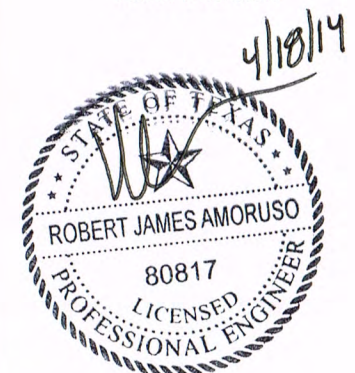
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
GENERAL NOTES AND INSTALLATION NOTES

PREPARED BY: **PDC**
 DRAWN BY: RJA
 DATE: 01/28/14
 SCALE: N.T.S.
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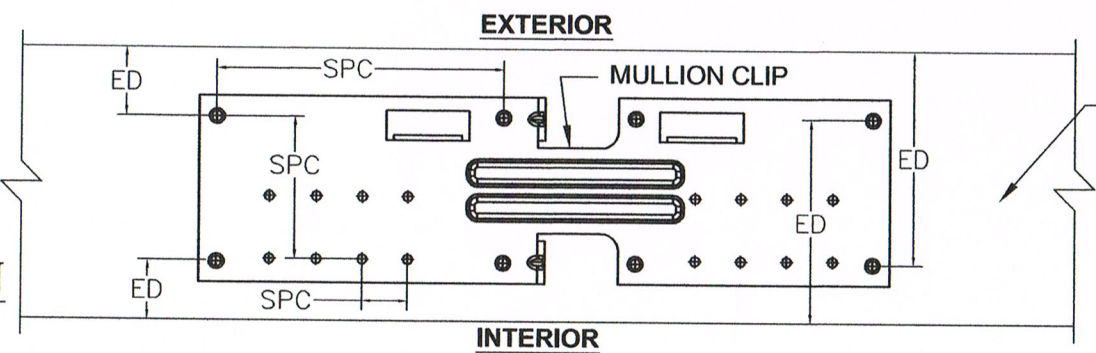


INSTALLATION ANCHOR SCHEDULE

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 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
	1/8" THK. ALUMINUM	FLAT OR PAN HEAD	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	9/32"	9/16"	ALUMINUM 6063-T5 ALUMINUM OR BETTER
1/8" THK. STEEL	FLAT OR PAN HEAD	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	FLAT OR PAN HEAD	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	9/32"		9/16"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER	
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
4 1/2" NAILING FIN FRAME	1/8" THK. ALUMINUM	FLAT OR PAN HEAD	NO. 10	ASME B18.6.4 (TAPPING SCREW) (2)	FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	9/32"	9/16"	ALUMINUM 6063-T5 ALUMINUM OR BETTER
	1/8" THK. STEEL	FLAT OR PAN HEAD	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	FLAT OR PAN HEAD	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 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.

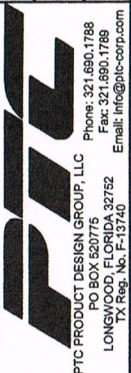
SPACING (SPC) WILL BE MEASURED FROM THE CLOSEST ADJACENT ANCHORS, CENTERLINE TO CENTERLINE OF ANCHOR.

PROJECT # 414-0106

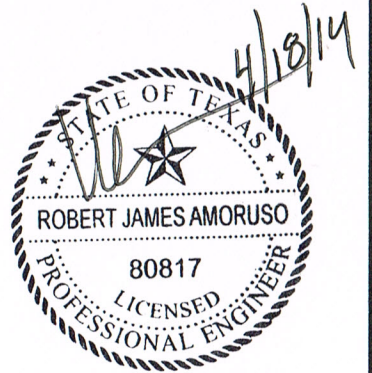
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
INSTALLATION ANCHOR SCHEDULE

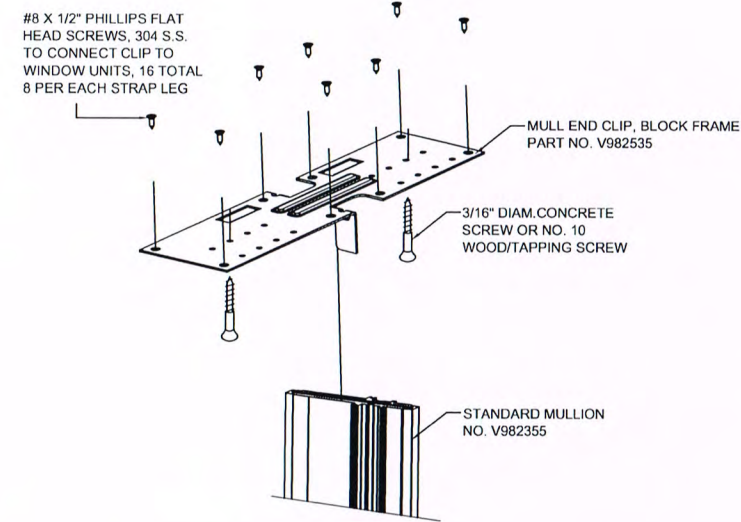
PREPARED BY: PTC
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 2 OF 26



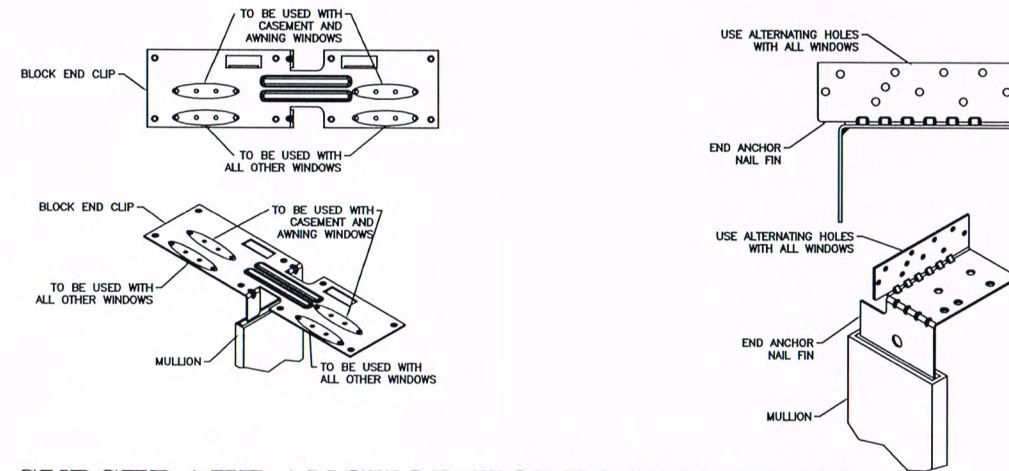
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MULLION END CLIP - ATTACHMENT TO WINDOW FRAME/SUPPORTING SUBSTRATE FIN AND BLOCK FRAME



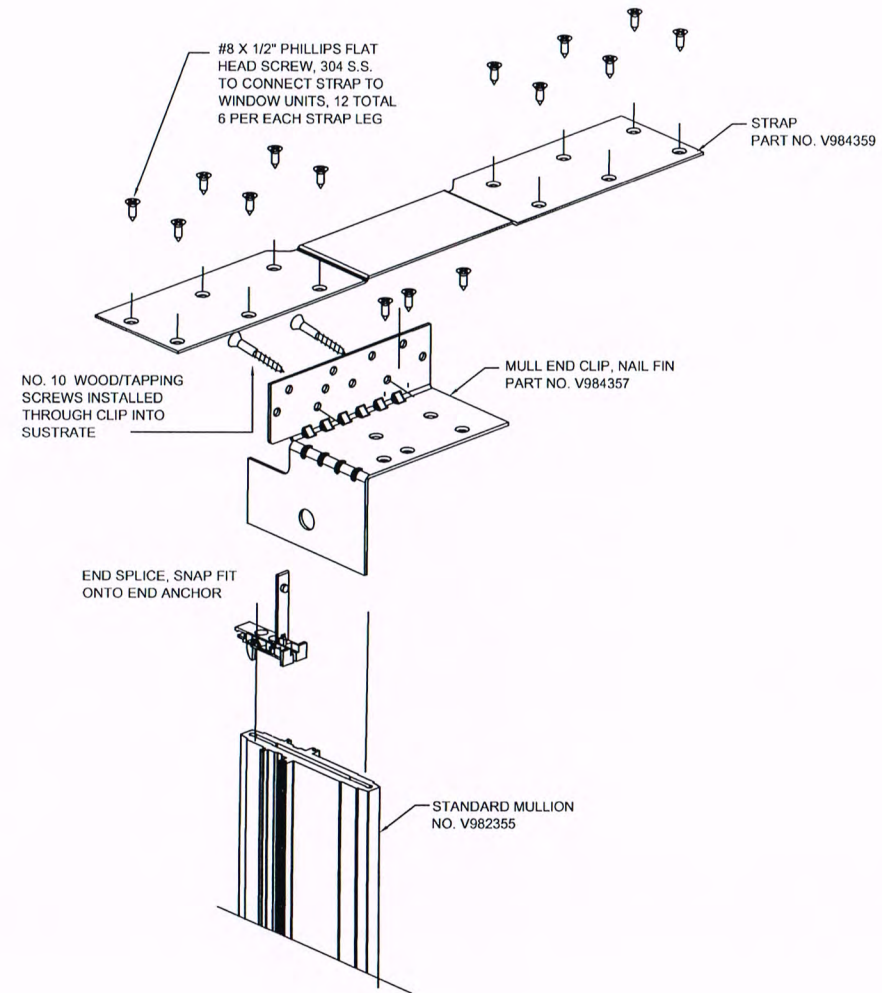
CLIP TO MULLION ATTACHMENT BLOCK FRAME



SUBSTRATE ANCHOR HOLE DEFINITION BLOCK 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 4 FOR SPECIFIC REQUIREMENTS RELATED TO INSTALLATION OF SERIES 350 WINDOWS TO THE MULLION.
4. SEE SHEETS 6 AND 7 FOR SPECIFIC REQUIREMENTS RELATED TO INSTALLATION ANCHORAGE FOR CLIP TO SUPPORTING SUBSTRATE.



CLIP TO MULLION ATTACHMENT FIN FRAME

PROJECT # 414-0106

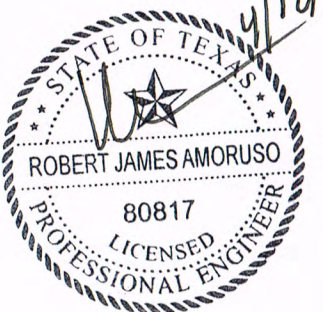
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
MULLION END CLIP - ATTACHMENT ILLUSTRATIONS

PREPARED BY: PTC
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SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO.: PELL0035
SHEET: 3 OF 26

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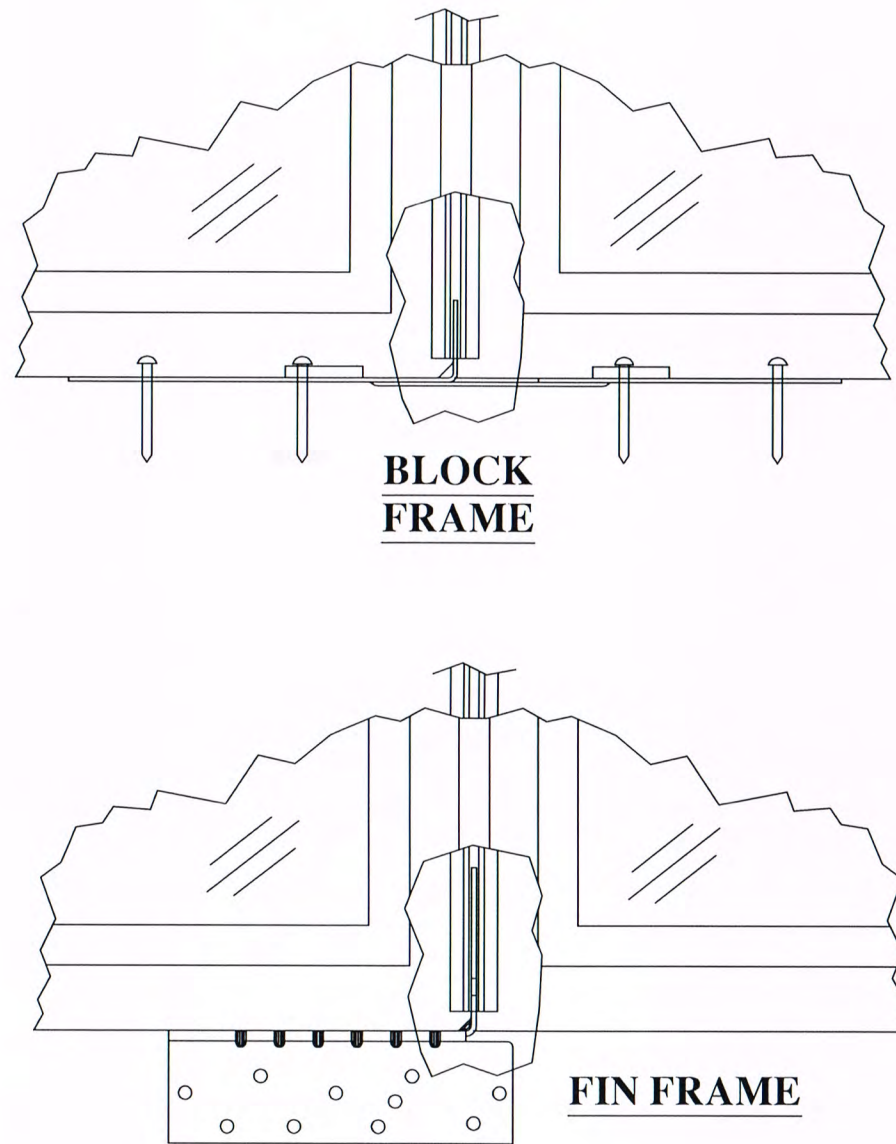
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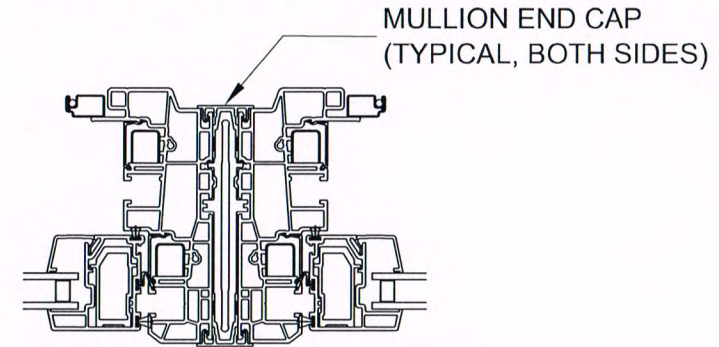
**ATTACHMENT OF WINDOW FRAME TO MULLION
FIN AND BLOCK FRAME**

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

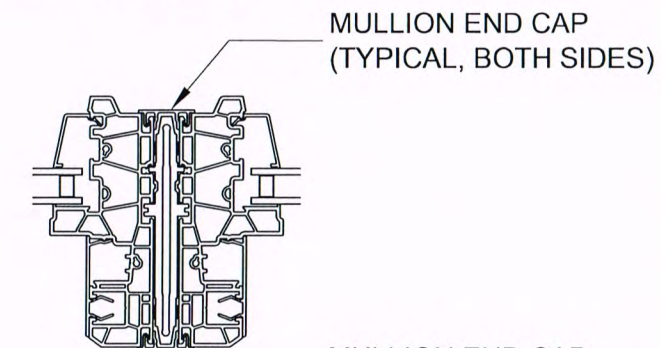
1/2" MULLION WITH AND WITHOUT (SHOWN) REINFORCEMENT



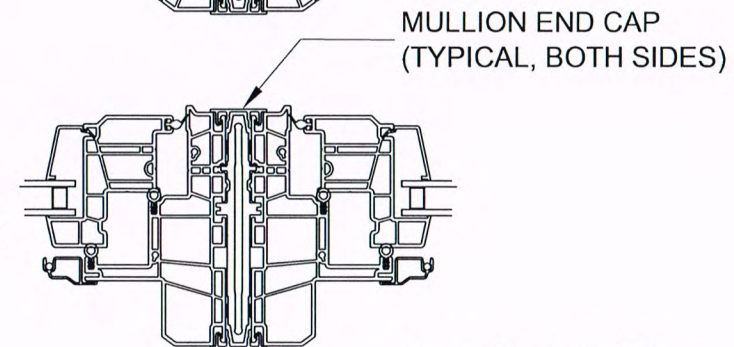
Double Hung



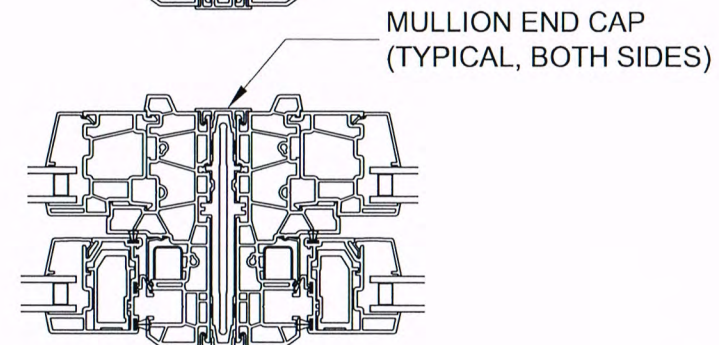
Fixed



Casement/Awning



Singe Hung



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.

PROJECT # 414-0106

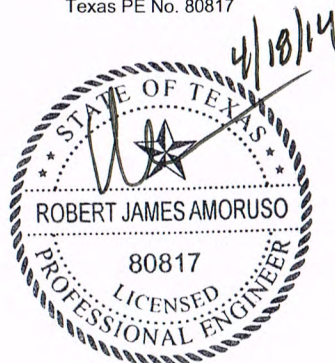
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PELLA, IA 50219

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MULLION END CLIP - ATTACHMENT ILLUSTRATIONS

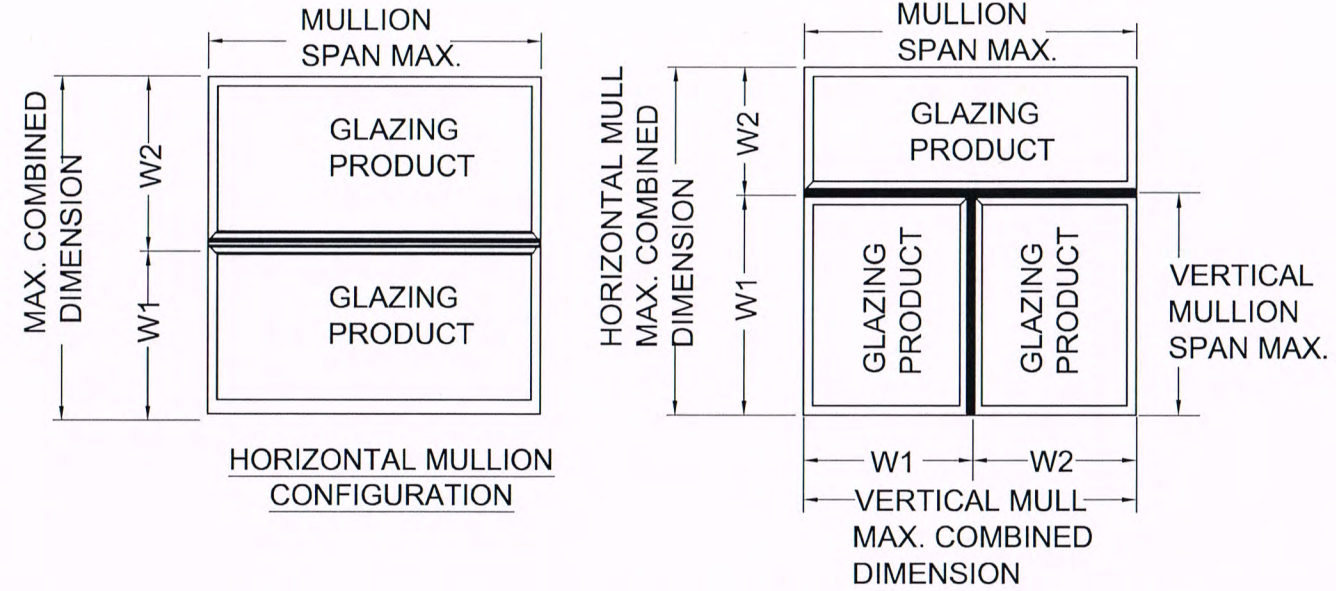
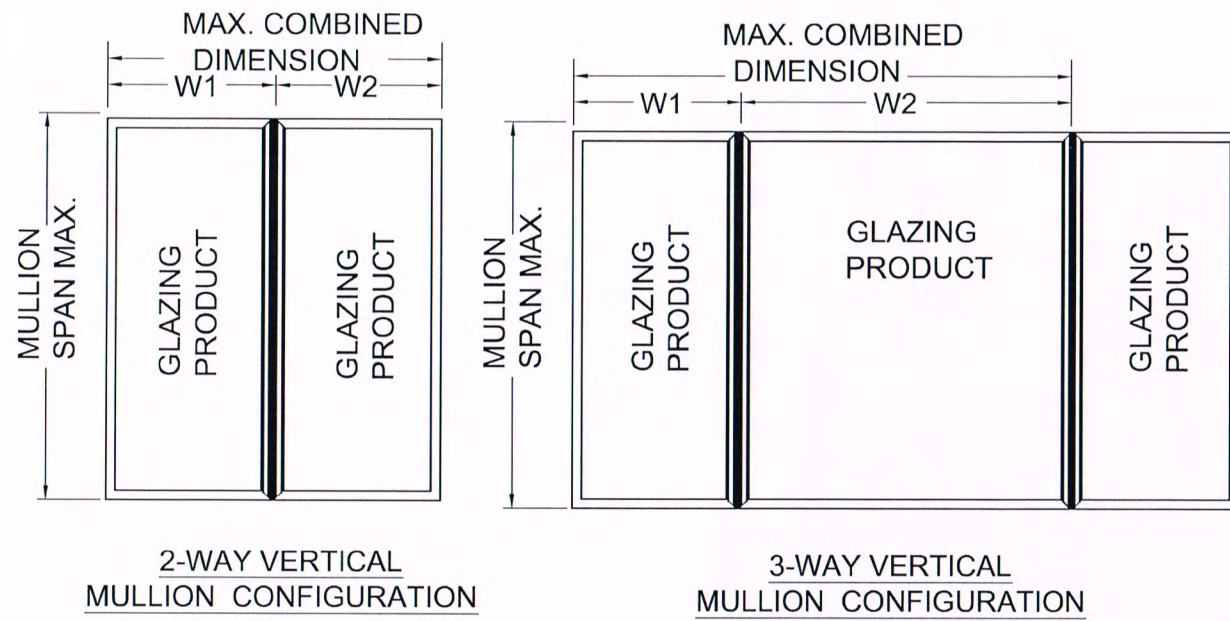
PREPARED BY:	DATE:	01/28/14
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SCALE: N.T.S.	SHEET:	4 OF 26
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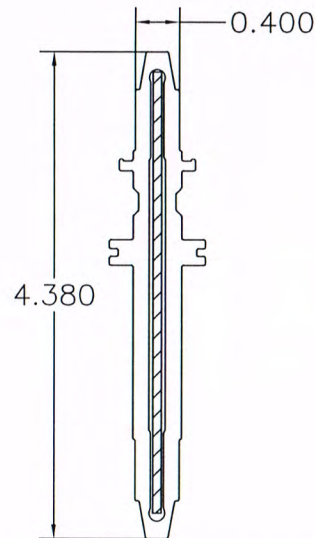
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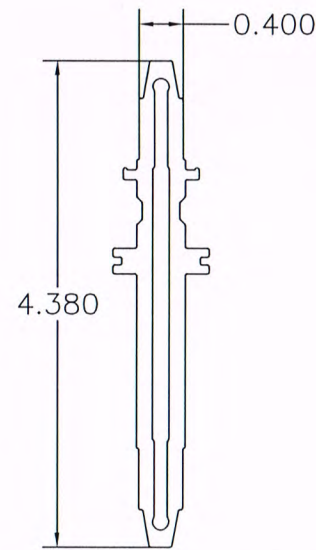
APPROVED MULLED WINDOW CONFIGURATIONS



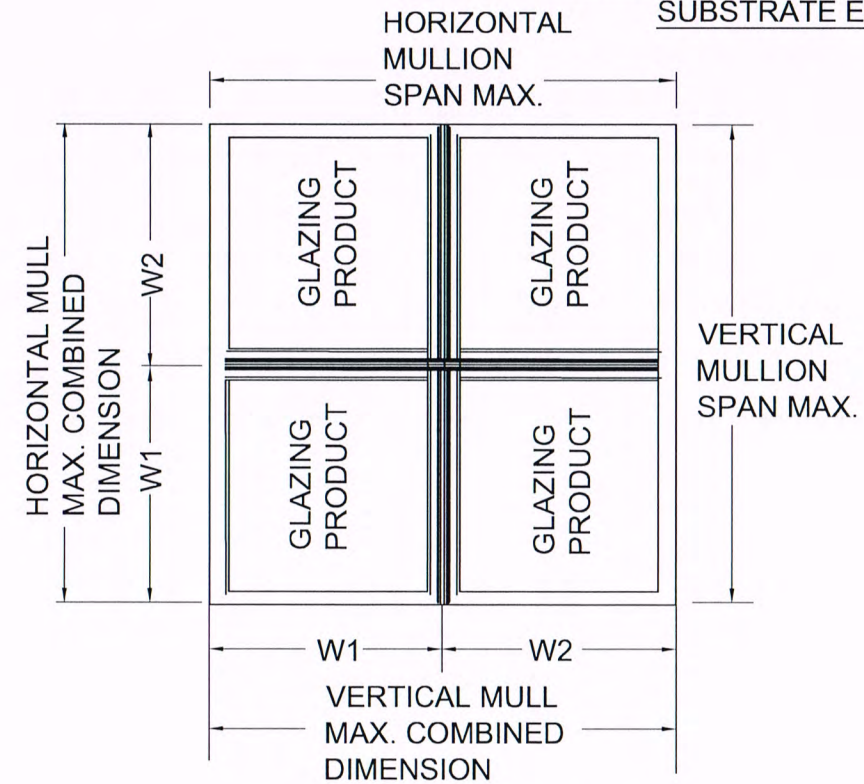
1/2" STANDARD MULLION



V982355 MULLION W/REINFORCEMENT
 MATERIAL: 6063-T6



V982355 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.)

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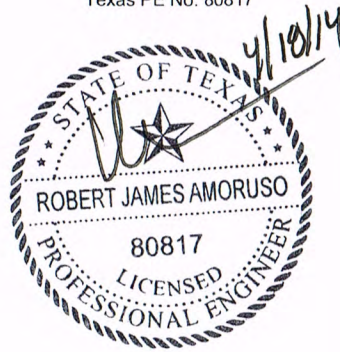
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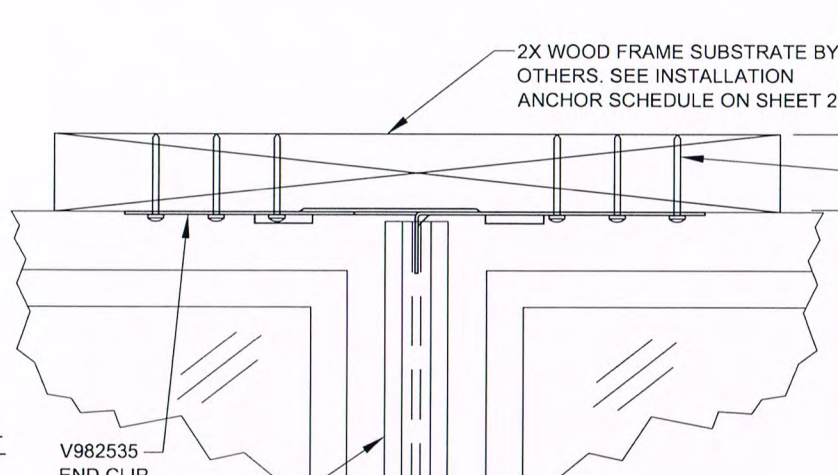
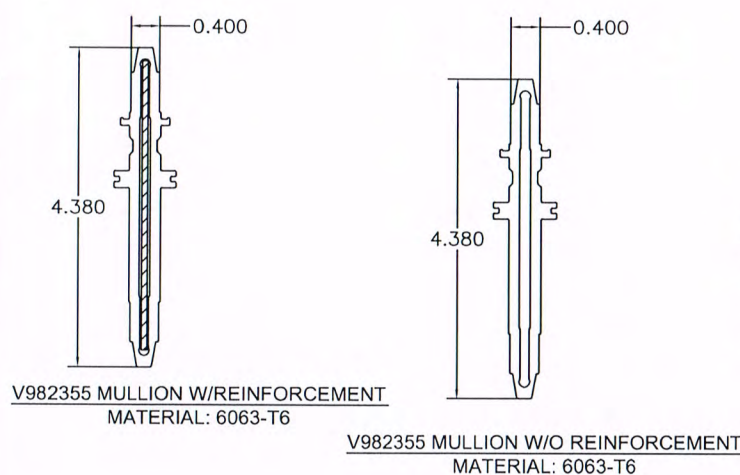


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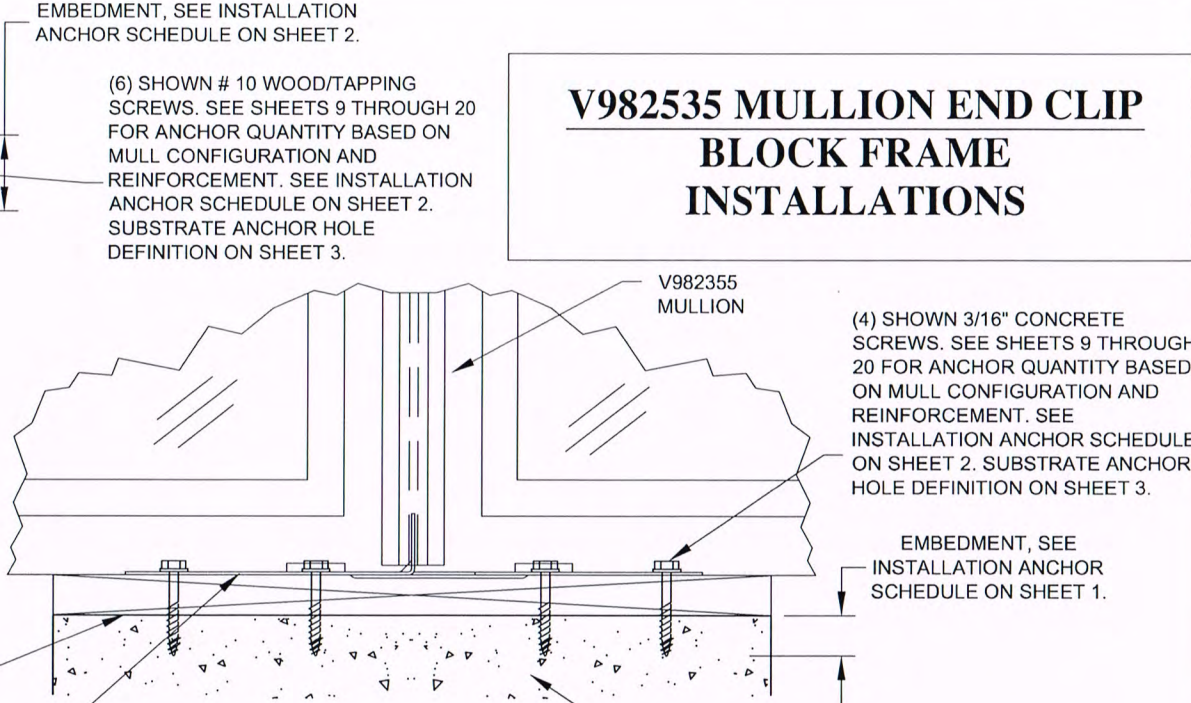
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 DATE: 01/28/14
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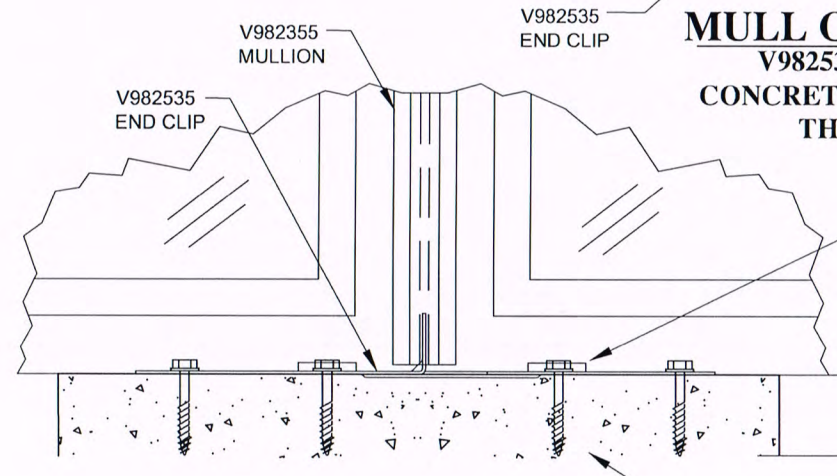




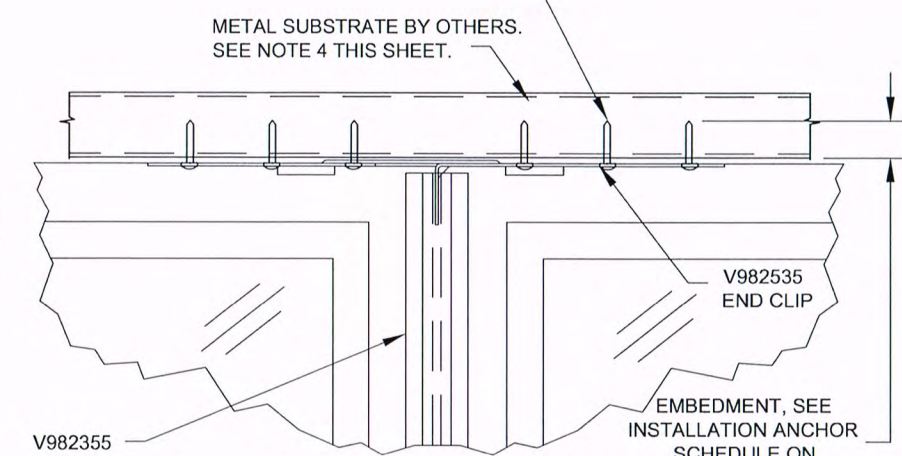
MULL CLIP ATTACHMENT
V982535 MULL CLIP SHOWN
WOOD FRAME SUBSTRATE
2 BY BUCK OR STUD
FRONT VIEW



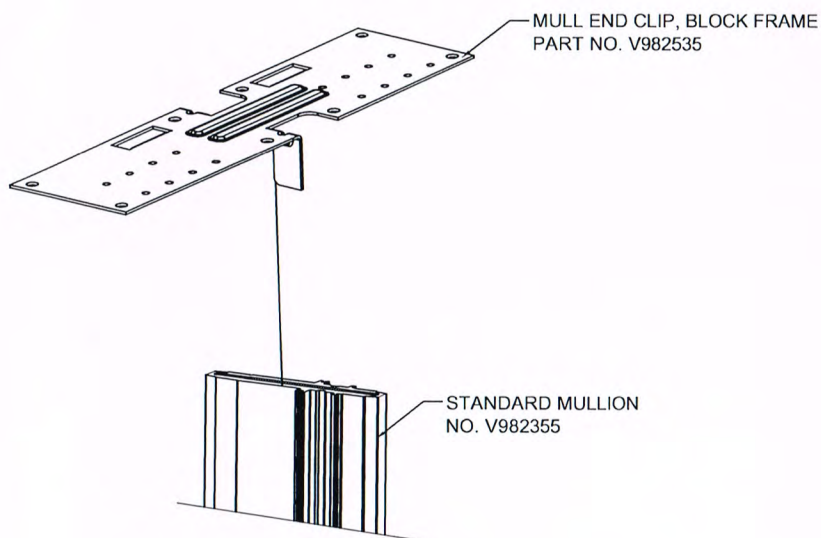
MULL CLIP ATTACHMENT
V982535 MULL CLIP SHOWN
CONCRETE / MASONRY SUBSTRATE
THROUGH 1 BY BUCK
FRONT VIEW



MULL CLIP ATTACHMENT
V982535 MULL CLIP SHOWN
CONCRETE / MASONRY SUBSTRATE
FRONT VIEW



MULL CLIP ATTACHMENT
V982535 MULL CLIP SHOWN
ALUMINUM/STEEL SUBSTRATE
ATTACHMENT



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

ANCHOR NOTES
V982535 MULL END CLIP:

1. 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.
2. FOR MULL CLIP ATTACHMENT TO WOOD FRAME SUBSTRATES, USE NO. 10 WOOD/TAPPING SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" EMBEDMENT INTO FRAMING IN QUANTITIES AS SHOWN ON SHEETS 9 THROUGH 20 BASED ON MULL CONFIGURATION AND REINFORCEMENT. ANCHORS SHALL BE EVENLY DISTRIBUTED TO EACH LEG CLIP. SEE DETAIL ON THIS SHEET.
3. FOR MULL CLIPS INTO CONCRETE / MASONRY INSTALLATION USE 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 IN QUANTITIES AS SHOWN ON SHEETS 9 THROUGH 20 BASED ON MULL CONFIGURATION AND REINFORCEMENT. ANCHORS SHALL BE EVENLY DISTRIBUTED TO EACH LEG CLIP. SEE DETAIL ON THIS SHEET.
4. 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 SHEETS 9 THROUGH 20 BASED ON MULL CONFIGURATION AND REINFORCEMENT. ANCHORS SHALL BE EVENLY DISTRIBUTED TO EACH LEG CLIP. SEE DETAIL ON THIS SHEET.

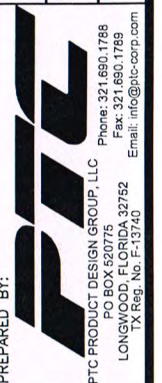
V982535 MULLION END CLIP
BLOCK FRAME
INSTALLATIONS

PROJECT # 414-0106

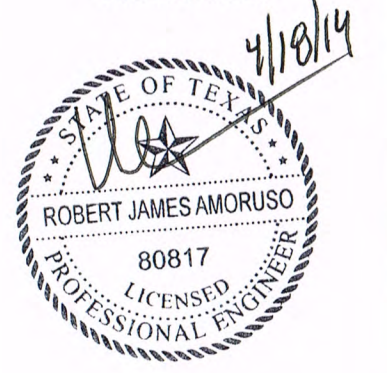
PELLA CORPORATION
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SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
 BLOCK FRAME INSTALLATIONS DETAILS

DATE:	01/28/14
DRAWING NO.:	PELL0035
SCALE:	N.T.S.
REV:	---
SHEET:	6 OF 26



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



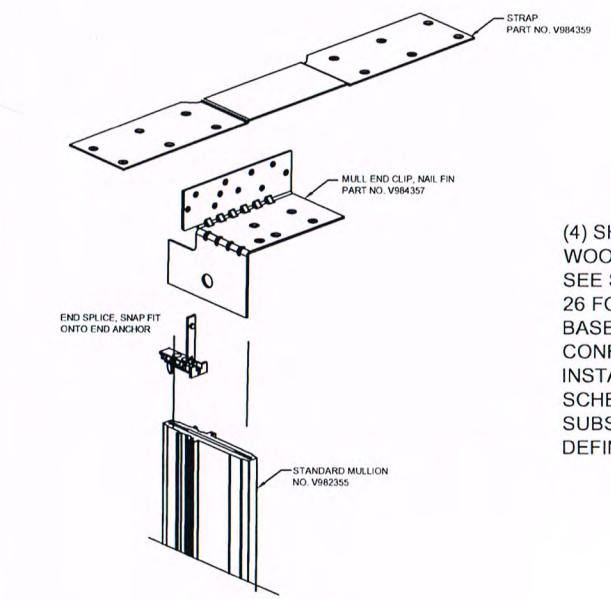
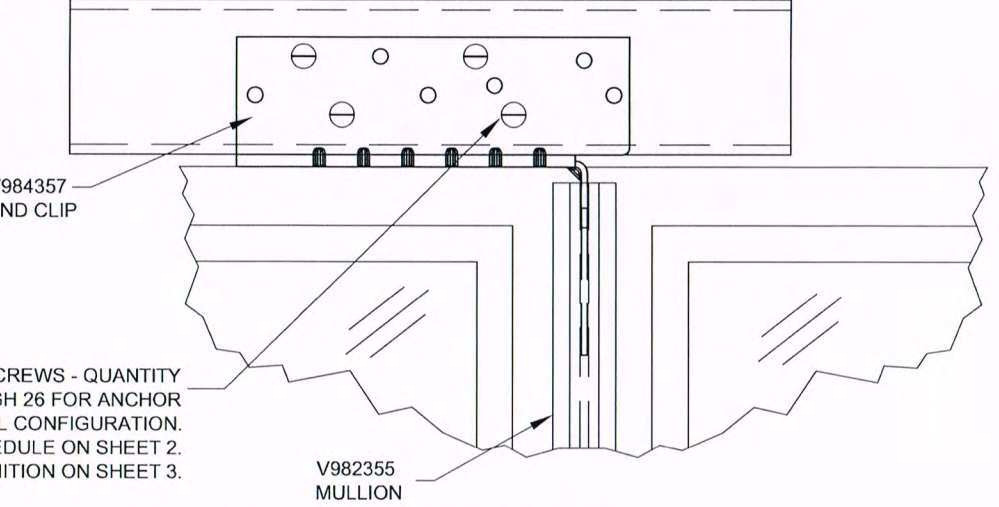
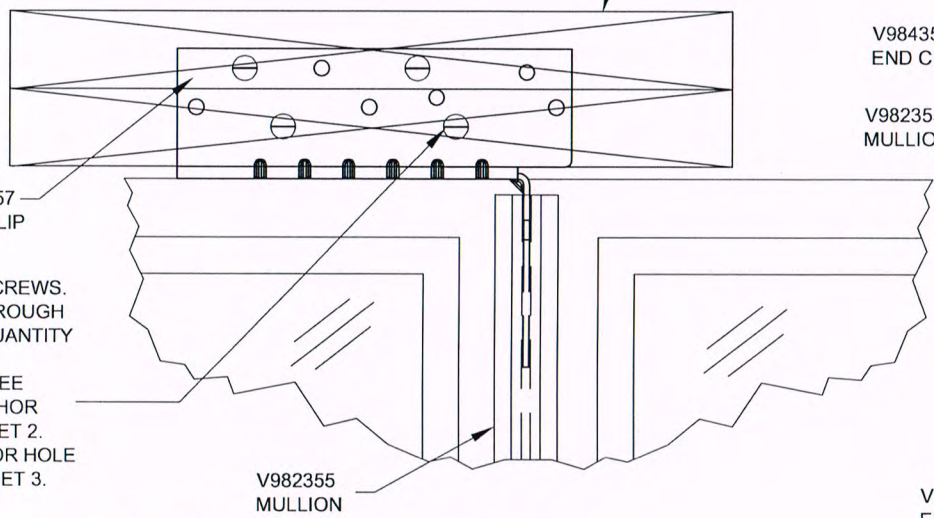
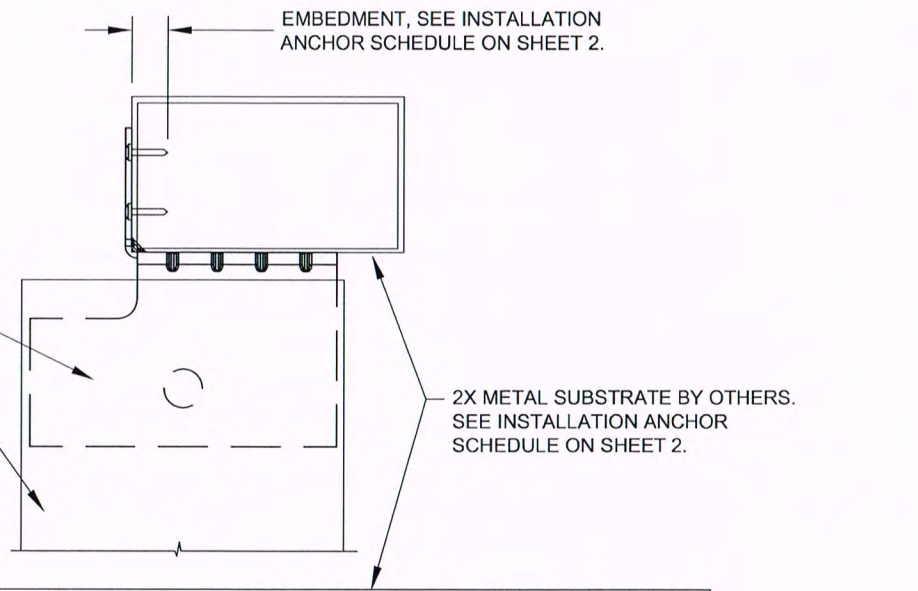
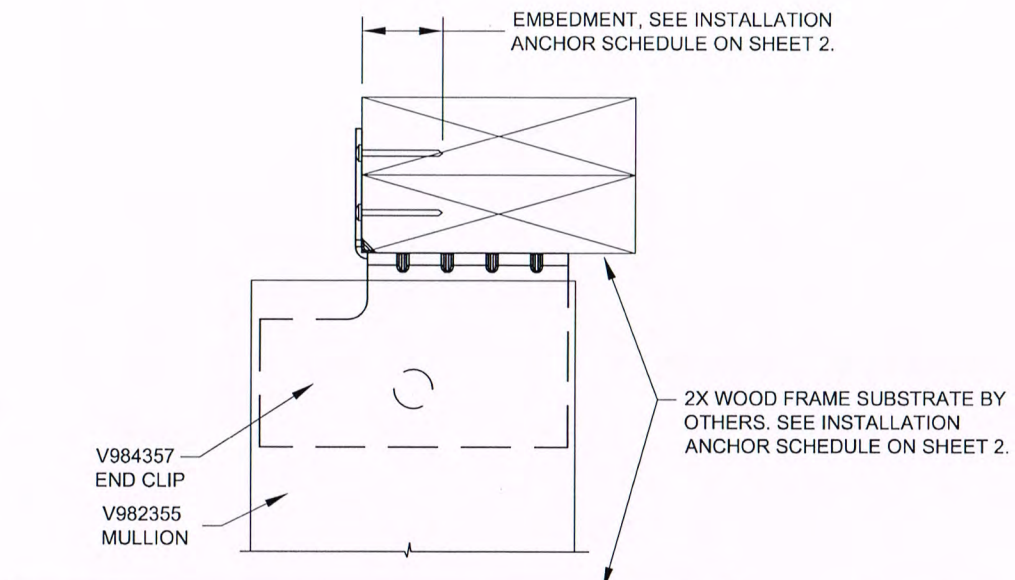
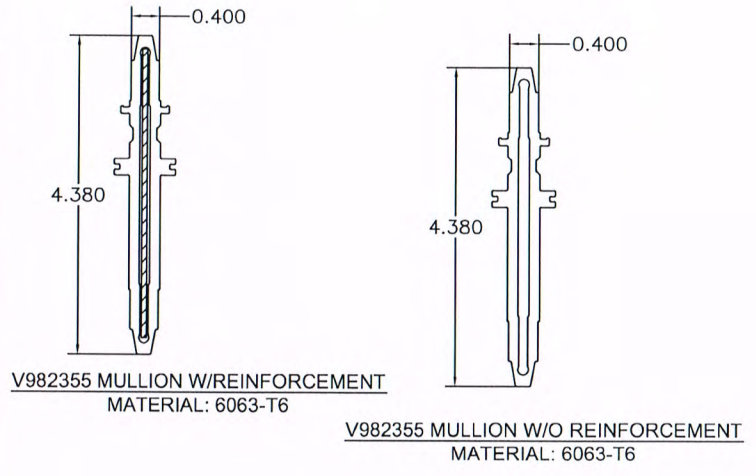
V984357 MULLION END CLIP FIN FRAME INSTALLATIONS

PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME INSTALLATIONS DETAILS

DATE:	01/28/14
DRAWN BY:	RJA
SCALE:	N.T.S.
REV:	---
SHEET:	7 OF 26
DESCRIPTION	
REV	
DATE	
BY	



(4) SHOWN # 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.

(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.

MULL CLIP ATTACHMENT
V984357
WOOD FRAME SUBSTRATE
2 BY BUCK OR STUD
FRONT VIEW

MULL CLIP ATTACHMENT
V984357
ALUMINUM/STEEL SUBSTRATE
FRONT VIEW

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

ANCHOR NOTES
V984357 MULL END CLIP:

1. 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.
2. FOR MULL CLIP ATTACHMENT TO WOOD FRAME SUBSTRATES, USE NO. 10 WOOD/TAPPING SCREWS AT EACH CLIP LEG WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" EMBEDMENT INTO FRAMING IN QUANTITIES AS SHOWN ON SEE SHEETS 21 THROUGH 26 BASED ON MULL CONFIGURATION AND REINFORCEMENT. SEE DETAIL ON THIS SHEET.
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.

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MULLION CAPACITY LOAD TABLES - INSTRUCTIONS

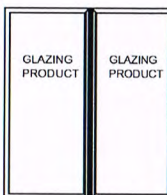
INSTRUCTIONS FOR USE OF THE MULLION LOAD TABLES ON SHEETS :

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.

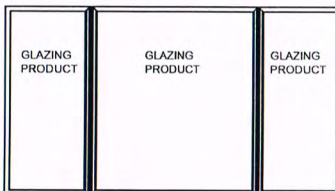
MULLION CONFIGURATIONS VS. LOAD CAPACITY TABLES ARE DELINEATED BELOW :

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:

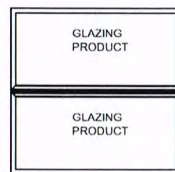
- 2.1. 1/2" VERTICAL UNREINFORCED & REINFORCED MULLION IN A MULTI-WIDE CONFIGURATION
- 2.2. 1/2" HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A MULTI-HIGH CONFIGURATION
- 2.3. 1/2" VERTICAL UNREINFORCED & REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION
- 2.4. 1/2" VERTICAL UNREINFORCED & REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION



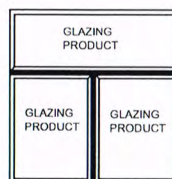
2-WAY VERTICAL MULLION CONFIGURATION



3-WAY VERTICAL MULLION CONFIGURATION



HORIZONTAL MULLION CONFIGURATION



3-WAY MULLION CONFIGURATION

1/2" VERTICAL UNREINFORCED & REINFORCED IN A MULLION MULTI-WIDE CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED MULLION
 - 1.1. TABLE 1 FOR ALL SUBSTRATES (SHEET 2) - 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 V982356) 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

1/2" HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A MULTI-HIGH CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED MULLION
 - 1.1. TABLE 2 FOR ALL SUBSTRATES (SHEET 2) - 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 V982356) 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

1/2" VERTICAL / HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED VERTICAL MULLION
 - 1.1. TABLE 3.1 FOR ALL SUBSTRATES (SHEET 2) - 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 3.2 FOR ALL SUBSTRATES (SHEET 2) - 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 V982356) 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

1/2" VERTICAL/HORIZONTAL UNREINFORCED & REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED VERTICAL MULLION
 - 1.1. TABLE 4.1 FOR ALL SUBSTRATES (SHEET 2) - 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
 - 3.1. TABLE 4.2 FOR ALL SUBSTRATES (SHEET 2) - SHEET 14
4. REINFORCED HORIZONTAL MULLION
 - 4.1. TABLE 4.2A FOR WOOD SCREWS AND CONCRETE SCREWS IN CONCRETE SUBSTRATE - SHEET 20
 - 4.2. TABLE 4.2B FOR CONCRETE SCREWS IN MASONRY (CMU BLOCK) SUBSTRATE - SHEET 20

FIN (CLIP V982356) FRAME INSTALLATION

5. UNREINFORCED AND REINFORCED VERTICAL MULLION
 - 5.1. TABLE 4.1A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 25
 - 5.2. TABLE 4.1B REINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 25
6. UNREINFORCED AND REINFORCED HORIZONTAL MULLION
 - 6.1. TABLE 4.2A UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 26
 - 6.2. 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 1/2" STANDARD MULLION - IMPACT
MULLION CAPACITY LOAD TABLES - INSTRUCTIONS

PREPARED BY: PFC

DATE: 01/28/14

DRAWN BY: RJA

SCALE: N.T.S.

SHEET: 8 OF 26

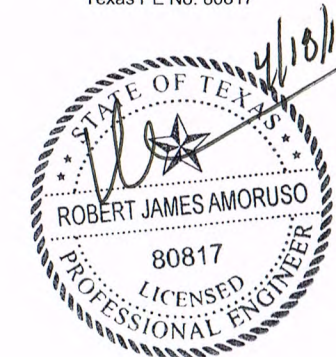
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REV

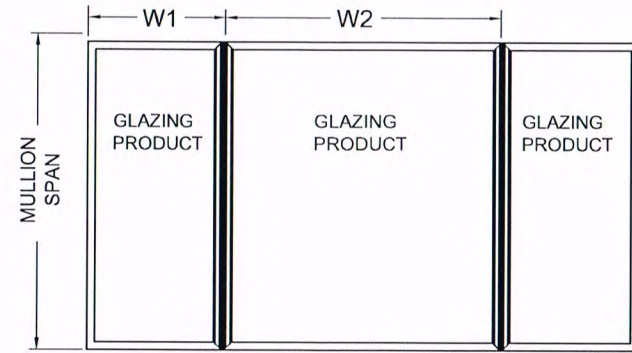
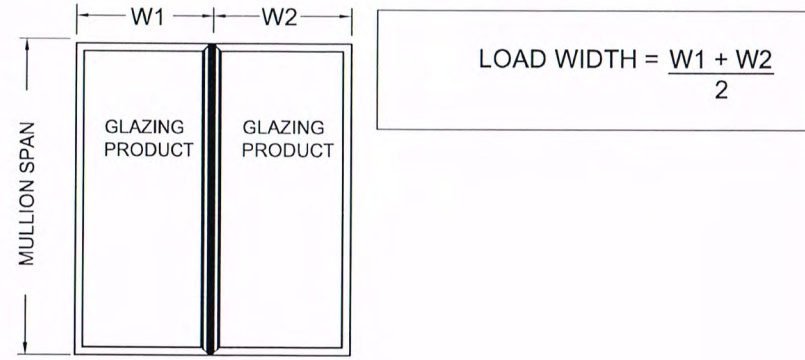
BY

DATE

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



1/2" VERTICAL UNREINFORCED MULLION MULTI-WIDE CONFIGURATION



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

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

BLOCK FRAME (CLIP V982535) INSTALLATION

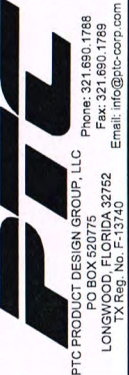
MULLION TABLE 1 (VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing Mull)								
Vertical mull in side-by-side assembly unlimited width.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
24	24	75.0	60	24	75.0	96	24	54.5
	30	75.0		30	44.2			
	36	75.0		36	37.5			
	42	75.0		42	32.8			
	48	75.0		48	29.4			
	54	75.0		54	26.9			
	60	75.0		60	25.0			
	66	75.0		66	23.6			
30	72	75.0	72	22.5				
	24	75.0	66	24	75.0	102	24	45.3
	30	75.0		30	36.7			
	36	75.0		36	31.1			
	42	75.0		42	27.1			
	48	75.0		48	24.3			
	54	75.0		54	22.1			
	60	75.0		60	20.5			
66	75.0	66		19.2				
36	72	75.0	72	18.2				
	24	75.0	72	24	75.0	108	24	38.1
	30	75.0		30	30.8			
	36	75.0		36	26.0			
	42	75.0		42	22.7			
	48	75.0		48	20.2			
	54	75.0		54	18.4			
	60	75.0		60	17.0			
66	75.0	66		15.9				
42	72	75.0	72	15.0				
	24	75.0	78	24	75.0	114	24	32.3
	30	75.0		30	26.1			
	36	75.0		36	22.0			
	42	75.0		42	19.2			
	48	75.0		48	17.1			
	54	75.0		54	15.5			
	60	75.0		60	14.2			
66	75.0	66		13.3				
48	72	75.0	72	12.5				
	24	75.0	84	24	75.0	120	24	27.7
	30	75.0		30	22.3			
	36	75.0		36	18.8			
	42	75.0		42	16.3			
	48	75.0		48	14.5			
	54	75.0		54	13.1			
	60	75.0		60	12.1			
66	75.0	66		11.2				
54	72	75.0	72	10.5				
	24	75.0	90	24	66.4	126	24	24.2
	30	75.0		30	54.0			
	36	75.0		36	45.9			
	42	75.0		42	40.3			
	48	75.0		48	36.3			
	54	75.0		54	33.3			
	60	75.0		60	31.1			
66	75.0	66		29.5				
72	75.0	72	28.3					

PROJECT # 414-0106

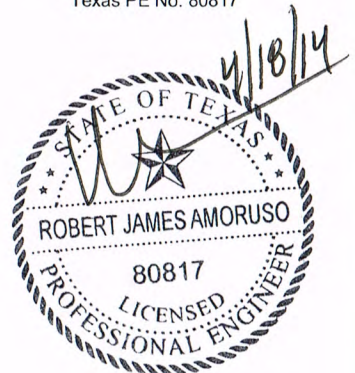
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - UNREINFORCED MULL - TABLE 1

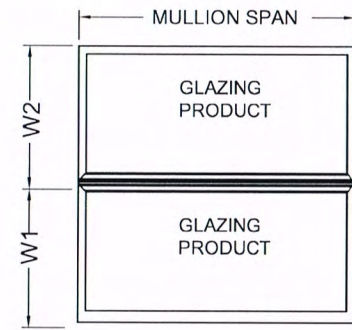
PREPARED BY: RJA
SCALE: N.T.S.
REV: ---
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 9 OF 26



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



1/2" HORIZONTAL UNREINFORCED MULLION MULTI-HIGH CONFIGURATION



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

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

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

BLOCK FRAME (CLIP V982535) INSTALLATION

MULLION TABLE 2 (HORIZONTAL SPAN — 1/2" Standard Aluminum Reinforcing Mull) Horizontal 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)
48	24	75.0	72	24	75.0	96	24	54.5
	30	75.0		30	44.2			
	36	75.0		36	37.5			
	42	75.0		42	32.8			
	48	75.0		48	29.4			
	54	75.0		54	26.9			
	60	75.0		60	25.0			
	66	75.0		66	23.6			
54	24	75.0	78	24	75.0	102	24	45.3
	30	75.0		30	36.7			
	36	75.0		36	31.1			
	42	75.0		42	27.1			
	48	75.0		48	24.3			
	54	75.0		54	22.1			
	60	75.0		60	20.5			
	66	75.0		66	19.2			
60	24	75.0	84	24	75.0	108	24	38.1
	30	75.0		30	30.8			
	36	75.0		36	26.0			
	42	75.0		42	22.7			
	48	75.0		48	20.2			
	54	75.0		54	18.4			
	60	75.0		60	17.0			
	66	75.0		66	15.9			
66	24	75.0	90	24	66.4	114	24	32.3
	30	75.0		30	26.1			
	36	75.0		36	22.0			
	42	75.0		42	19.2			
	48	75.0		48	17.1			
	54	72.8		54	15.5			
	60	70.9		60	14.2			
	66	70.3		66	13.3			
						120	24	27.7
							30	22.3
							36	18.8
							42	16.3
							48	14.5
							54	13.1
							60	12.1
						66	11.2	

PROJECT # 414-0106

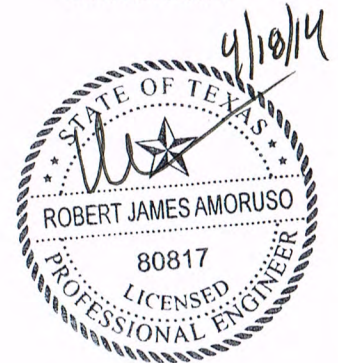
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK - UNREINF. MULL - TABLE 2

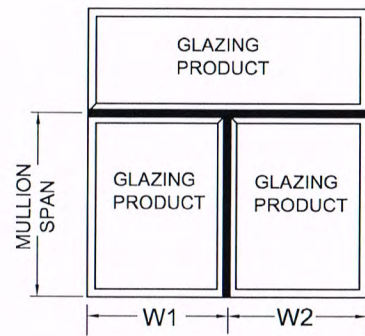
PREPARED BY: PTC
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 10 OF 26

PTC PRODUCT DESIGN GROUP, LLC
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LONGWOOD, FLORIDA 32752
TX Reg. No. E-13740
Phone: 321.660.1788
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Email: info@ptc-corp.com

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



1/2" VERTICAL UNREINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION



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

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

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

BLOCK FRAME (CLIP V982535) INSTALLATION

MULLION TABLE 3.1								
(VERTICAL 3-WAY SPAN — 1/2" Standard Aluminum Reinforcing 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	71.5
	48	75.0		48	75.0		48	65.4
	54	75.0		54	75.0		54	61.0
	60	75.0		60	75.0		60	58.0
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	68.2
	42	75.0		42	75.0		42	60.1
	48	75.0		48	75.0		48	54.4
	54	75.0		54	75.0		54	50.3
	60	75.0		60	75.0		60	47.3
36	24	75.0	60	24	75.0	84	24	75.0
	30	75.0		30	75.0		30	66.8
	36	75.0		36	75.0		36	57.0
	42	75.0		42	75.0		42	50.2
	48	75.0		48	75.0		48	45.4
	54	75.0		54	75.0		54	41.9
	60	75.0		60	75.0		60	39.4
42	24	75.0	66	24	75.0	90	24	66.4
	30	75.0		30	75.0		30	54.0
	36	75.0		36	75.0		36	45.9
	42	75.0		42	75.0		42	40.3
	48	75.0		48	75.0		48	36.3
	54	75.0		54	72.8		54	33.3
	60	75.0		60	70.9		60	31.1
48	24	75.0	72	24	75.0	96	24	54.5
	30	75.0		30	75.0		30	44.2
	36	75.0		36	75.0		36	37.5
	42	75.0		42	75.0		42	32.8
	48	75.0		48	75.0		48	29.4
	54	75.0		54	72.8		54	26.9
	60	75.0		60	70.9		60	25.0
54	24	75.0	78	24	75.0	102	24	50.3
	30	75.0		30	75.0		30	40.3
	36	75.0		36	75.0		36	33.3
	42	75.0		42	75.0		42	29.4
	48	75.0		48	75.0		48	26.9
	54	75.0		54	72.8		54	25.0
	60	75.0		60	70.9		60	23.6

PROJECT # 414-0106

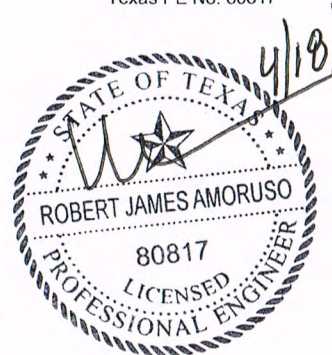
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK - UNREINFORCED MULL - TABLE 3.1

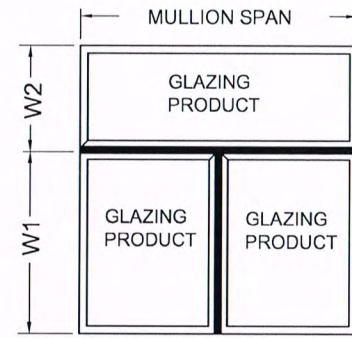
PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 11 OF 26

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1/2" HORIZONTAL UNREINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION



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

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

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

BLOCK FRAME (CLIP V982535) INSTALLATION

MULLION TABLE 3.2								
(HORIZONTAL 3-WAY SPAN — 1/2" Standard Aluminum Reinforcing 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	66.2	108	24	37.7
	30	75.0		30	62.1		30	31.8
	36	75.0		36	58.9		36	27.1
	42	75.0		42	62.7		42	23.8
	48	75.0		48	56.1		48	21.4
	54	75.0		54	51.1		54	19.5
	60	75.0		60	47.0		60	18.0
	66	75.0		66	43.8		66	16.8
54	24	75.0	84	24	58.3	114	24	32.9
	30	75.0		30	54.7		30	26.9
	36	75.0		36	51.9		36	22.9
	42	75.0		42	53.3		42	20.1
	48	75.0		48	47.8		48	18.0
	54	75.0		54	43.4		54	16.4
	60	75.0		60	39.9		60	15.1
	66	75.0		66	37.1		66	14.1
60	24	75.0	90	24	51.7	120	24	28.1
	30	75.0		30	48.6		30	22.9
	36	75.0		36	46.1		36	19.5
	42	75.0		42	42.7		42	17.1
	48	75.0		48	38.5		48	15.3
	54	75.0		54	35.3		54	13.9
	60	75.0		60	32.7		60	12.8
	66	72.8		66	30.6		66	11.9
66	24	75.0	96	24	46.3	126	24	26.5
	30	75.0		30	43.5		30	23.2
	36	75.0		36	39.4		36	20.2
	42	75.0		42	34.7		42	17.6
	48	73.9		48	31.3		48	15.4
	54	69.1		54	28.6		54	13.6
	60	65.4		60	26.5		60	12.2
	66	62.5		66	24.7		66	11.1
72	24	75.0	102	24	41.6	132	24	21.7
	30	71.2		30	38.0		30	19.6
	36	75.0		36	32.5		36	17.6
	42	71.2		42	28.6		42	15.8
	48	65.5		48	25.7		48	14.3
	54	61.0		54	23.5		54	13.1
	60	56.3		60	21.7		60	12.2
	66	52.6		66	20.2		66	11.5
72	24	75.0	102	24	41.6	132	24	21.7
	30	71.2		30	38.0		30	19.6
	36	75.0		36	32.5		36	17.6
	42	71.2		42	28.6		42	15.8
	48	65.5		48	25.7		48	14.3
	54	61.0		54	23.5		54	13.1
	60	56.3		60	21.7		60	12.2
	66	52.6		66	20.2		66	11.5

PROJECT # 414-0106

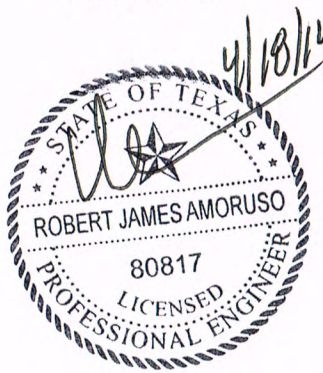
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - UNREINF. MULL - TABLE 3.2

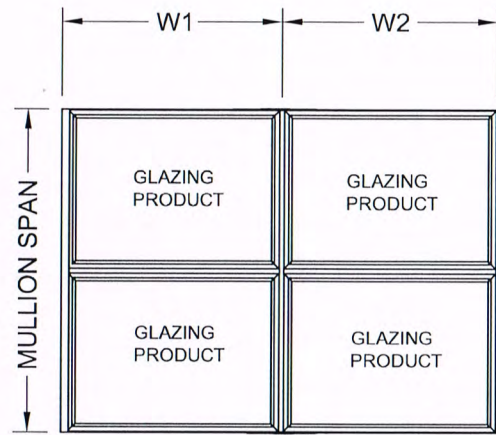
PREPARED BY: PTC
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 12 OF 26

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Texas PE No. 80817



1/2" VERTICAL UNREINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION



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

BLOCK FRAME (CLIP V982535) INSTALLATION

MULLION TABLE 4.1 (VERTICAL 4-WAY SPAN — 1/2" Standard 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	55.9
	30	75.0		30	45.4			
	36	75.0		36	38.3			
	42	75.0		42	33.3			
	48	75.0		48	29.5			
	54	75.0		54	26.6			
	60	75.0		60	24.2			
	66	75.0		66	22.1			
42	24	75.0	72	24	75.0	102	24	46.5
	30	75.0		30	37.7			
	36	75.0		36	31.8			
	42	75.0		42	27.6			
	48	75.0		48	24.5			
	54	75.0		54	22.0			
	60	75.0		60	20.0			
	66	75.0		66	18.4			
48	24	75.0	78	24	72.5	108	24	39.1
	30	75.0		30	60.8			
	36	75.0		36	53.2			
	42	75.0		42	48.0			
	48	75.0		48	44.3			
	54	75.0		54	41.7			
	60	75.0		60	38.0			
	66	75.0		66	34.5			
54	24	75.0	84	24	66.5	114	24	33.1
	30	75.0		30	55.5			
	36	75.0		36	48.4			
	42	75.0		42	43.4			
	48	75.0		48	39.9			
	54	75.0		54	36.4			
	60	75.0		60	32.8			
	66	72.1		66	29.8			
60	24	75.0	90	24	61.4	120	24	28.3
	30	75.0		30	51.1			
	36	75.0		36	44.3			
	42	70.2		42	39.7			
	48	66.5		48	35.7			
	54	64.5		54	31.7			
	60	63.8		60	28.5			
	66	58.4		66	25.9			
72	53.5	72	23.8					

ANCHOR QUANTITIES (PER CLIP END)

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

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

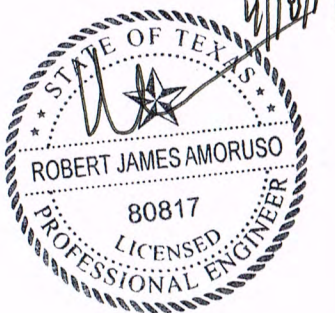
PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK - UNREINF. MULL - TABLE 4.1

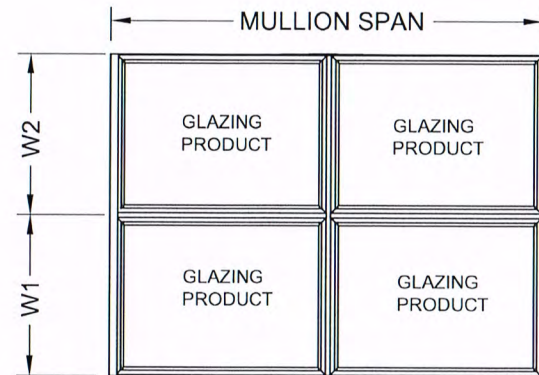
PREPARED BY: RJA
SCALE: N.T.S.
REV: ---
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 13 OF 26

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



1/2" HORIZONTAL UNREINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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

ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
CONCRETE	CONCRETE SCREW	3
MASONRY (CMU BLOCK)	CONCRETE SCREW	3
WOOD	WOOD OR TAPPING SCREW	3
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	3
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	3

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

MULLION TABLE 4.2 (HORIZONTAL 4-WAY SPAN — 1/2" Standard Aluminum Reinforcing 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	53.8
	30	75.0		30	46.8			
	36	75.0		36	40.0			
	42	75.0		42	34.2			
	48	75.0		48	29.5			
	54	75.0		54	25.9			
42	60	75.0	60	22.8				
	24	75.0	72	24	75.0	102	24	43.5
	30	75.0		30	67.2		30	38.4
	36	75.0		36	59.1		36	33.2
	42	75.0		42	53.6		42	28.6
	48	75.0		48	49.9		48	24.8
54	75.0	54		47.3	54		21.7	
48	60	75.0	60	45.6				
	24	75.0	78	24	72.5	108	24	35.4
	30	75.0		30	60.8		30	31.7
	36	75.0		36	53.2		36	27.8
	42	75.0		42	48.0		42	24.1
	48	75.0		48	44.3		48	21.0
54	75.0	54		41.7	54		18.4	
54	60	75.0	60	39.7				
	24	75.0	84	24	66.5	114	24	29.1
	30	75.0		30	55.5		30	26.3
	36	75.0		36	48.4		36	23.3
	42	75.0		42	43.4		42	20.5
	48	75.0		48	39.9		48	17.9
54	75.0	54		37.3	54		15.8	
60	60	75.0	60	32.7				
	24	75.0	90	24	61.4	120	24	24.1
	30	75.0		30	51.1		30	22.0
	36	75.0		36	44.3		36	27.8
	42	70.2		42	39.7		42	17.5
	48	66.5		48	35.6		48	15.4
54	64.5	54		31.0	54		13.6	
	60	63.8	60	27.2	60	12.1		

PROJECT # 414-0106

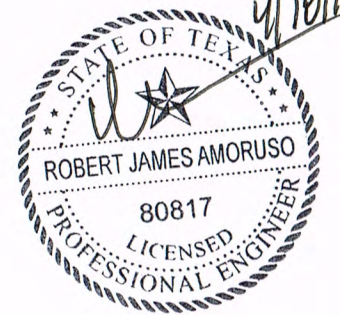
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - UNREINF. MULL - TABLE 4.2

PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 14 OF 26

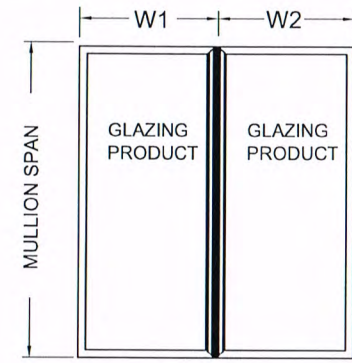
PTC PRODUCT DESIGN GROUP, LLC
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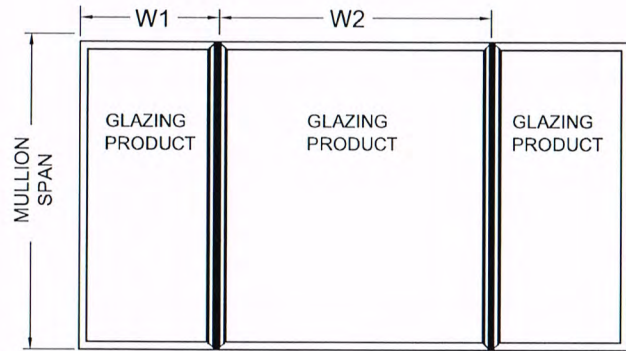


1/2" VERTICAL REINFORCED MULLION MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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



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.

MULLION TABLE 1A - WOOD/TAPPING SCREWS & CONCRETE SCREWS/CONCRETE								
(VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing 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	73.1			
	36	75.0		36	62.0			
	42	75.0		42	54.2			
	48	75.0		48	48.6			
	54	75.0		54	44.5			
	60	75.0		60	41.3			
	66	75.0		66	38.9			
72	75.0	72	37.1					
30	24	75.0	66	24	75.0	102	24	74.8
	30	75.0		30	60.6			
	36	75.0		36	51.3			
	42	75.0		42	44.8			
	48	75.0		48	40.1			
	54	75.0		54	36.5			
	60	75.0		60	33.8			
	66	75.0		66	31.7			
72	75.0	72	30.1					
36	24	75.0	72	24	75.0	108	24	62.9
	30	75.0		30	50.9			
	36	75.0		36	43.0			
	42	75.0		42	37.5			
	48	75.0		48	33.4			
	54	75.0		54	30.4			
	60	75.0		60	28.0			
	66	75.0		66	26.2			
72	75.0	72	24.8					
42	24	75.0	78	24	75.0	114	24	53.4
	30	75.0		30	43.1			
	36	75.0		36	36.4			
	42	75.0		42	31.6			
	48	75.0		48	28.2			
	54	75.0		54	25.5			
	60	75.0		60	23.5			
	66	75.0		66	21.9			
72	75.0	72	20.6					
48	24	75.0	84	24	75.0	120	24	45.7
	30	75.0		30	36.9			
	36	75.0		36	31.1			
	42	75.0		42	27.0			
	48	75.0		48	24.0			
	54	75.0		54	21.7			
	60	75.0		60	19.9			
	66	75.0		66	18.5			
72	75.0	72	17.4					
54	24	75.0	90	24	75.0		24	45.7
	30	75.0		30	36.9			
	36	75.0		36	31.1			
	42	75.0		42	27.0			
	48	75.0		48	24.0			
	54	75.0		54	21.7			
	60	75.0		60	19.9			
	66	75.0		66	18.5			
72	75.0	72	17.4					

MULLION TABLE 1B - CONCRETE SCREWS/MASONRY (CMU BLOCK)								
(VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing Mull w/Reinforcement)								
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	64.0			
	36	75.0		36	55.4			
	42	75.0		42	49.4			
	48	75.0		48	45.0			
	54	75.0		54	41.7			
	60	75.0		60	39.3			
	66	75.0		66	37.4			
72	75.0	72	36.0					
30	24	75.0	66	24	75.0	102	24	72.0
	30	75.0		30	59.6			
	36	75.0		36	51.3			
	42	75.0		42	44.8			
	48	75.0		48	40.1			
	54	75.0		54	36.5			
	60	75.0		60	33.8			
	66	75.0		66	31.7			
72	75.0	72	30.1					
36	24	75.0	72	24	75.0	108	24	62.9
	30	75.0		30	50.9			
	36	75.0		36	43.0			
	42	75.0		42	37.5			
	48	75.0		48	33.4			
	54	75.0		54	30.4			
	60	75.0		60	28.0			
	66	75.0		66	26.2			
72	75.0	72	24.8					
42	24	75.0	78	24	75.0	114	24	53.4
	30	75.0		30	43.1			
	36	75.0		36	36.4			
	42	75.0		42	31.6			
	48	75.0		48	28.2			
	54	75.0		54	25.5			
	60	75.0		60	23.5			
	66	75.0		66	21.9			
72	75.0	72	20.6					
48	24	75.0	84	24	75.0	120	24	45.7
	30	75.0		30	36.9			
	36	75.0		36	31.1			
	42	75.0		42	27.0			
	48	75.0		48	24.0			
	54	75.0		54	21.7			
	60	75.0		60	19.9			
	66	75.0		66	18.5			
72	75.0	72	17.4					
54	24	75.0	90	24	75.0		24	45.7
	30	75.0		30	36.9			
	36	75.0		36	31.1			
	42	75.0		42	27.0			
	48	75.0		48	24.0			
	54	75.0		54	21.7			
	60	75.0		60	19.9			
	66	75.0		66	18.5			
72	75.0	72	17.4					

PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

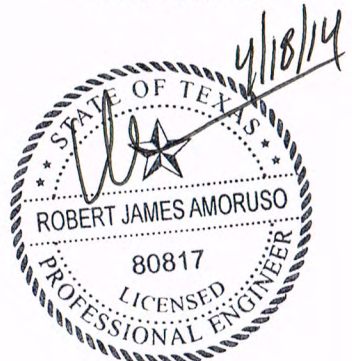
SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - REINF. MULL - TABLE 1A/B

PREPARED BY: PTC PRODUCT DESIGN GROUP, LLC
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DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 15 OF 26

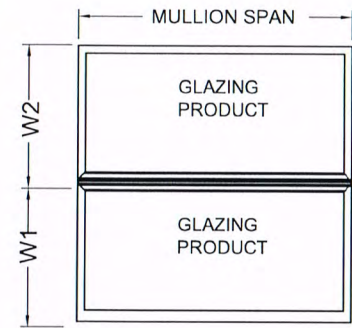
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

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



1/2" HORIZONTAL REINFORCED MULLION MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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

MULLION TABLE 2A - WOOD/TAPPING SCREWS & CONCRETE SCREWS/CONCRETE								
(HORIZONTAL SPAN — 1/2" Standard Aluminum Reinforcing 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	73.1
	36	75.0		36	75.0		36	62.0
	42	75.0		42	75.0		42	54.2
	48	75.0		48	75.0		48	48.6
	54	75.0		54	75.0		54	44.5
	60	75.0		60	75.0		60	41.3
66	75.0	66	75.0	66	38.9			
54	24	75.0	78	24	75.0	102	24	74.8
	30	75.0		30	75.0		30	60.6
	36	75.0		36	75.0		36	51.3
	42	75.0		42	75.0		42	44.8
	48	75.0		48	75.0		48	40.1
	54	75.0		54	75.0		54	36.5
	60	75.0		60	75.0		60	33.8
66	75.0	66	74.9	66	31.7			
60	24	75.0	84	24	75.0	108	24	62.9
	30	75.0		30	75.0		30	50.9
	36	75.0		36	75.0		36	43.0
	42	75.0		42	75.0		42	37.5
	48	75.0		48	75.0		48	33.4
	54	75.0		54	69.2		54	30.4
	60	75.0		60	65.0		60	28.0
66	75.0	66	61.9	66	26.2			
66	24	75.0	90	24	75.0	114	24	53.4
	30	75.0		30	75.0		30	43.1
	36	75.0		36	75.0		36	36.4
	42	75.0		42	66.5		42	31.6
	48	75.0		48	59.9		48	28.2
	54	75.0		54	55.0		54	25.5
	60	75.0		60	51.3		60	23.5
66	75.0	66	48.6	66	21.9			
	24			24		120	24	45.7
	30			30			30	36.9
	36			36			36	31.1
	42			42			42	27.0
	48			48			48	24.0
	54			54			54	21.7
	60			60			60	19.9
66		66		66	18.5			

MULLION TABLE 2B - CONCRETE SCREWS/MASONRY (CMU BLOCK)								
(HORIZONTAL SPAN — 1/2" Standard Aluminum Reinforcing 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	51.3
	42	75.0		42	65.0		42	44.8
	48	75.0		48	60.0		48	40.1
	54	75.0		54	56.5		54	36.5
	60	75.0		60	54.0		60	33.8
66	75.0	66	52.4	66	31.7			
60	24	75.0	84	24	75.0	108	24	62.9
	30	75.0		30	75.0		30	50.9
	36	75.0		36	65.5		36	43.0
	42	75.0		42	58.8		42	37.5
	48	75.0		48	54.0		48	33.4
	54	75.0		54	50.5		54	30.4
	60	75.0		60	48.0		60	28.0
66	75.0	66	46.2	66	26.2			
66	24	75.0	90	24	75.0	114	24	53.4
	30	75.0		30	69.1		30	43.1
	36	75.0		36	60.0		36	36.4
	42	75.0		42	53.7		42	31.6
	48	75.0		48	49.1		48	28.2
	54	73.8		54	45.7		54	25.5
	60	72.0		60	43.2		60	23.5
66	71.4	66	41.3	66	21.9			
	24			24		120	24	45.7
	30			30			30	36.9
	36			36			36	31.1
	42			42			42	27.0
	48			48			48	24.0
	54			54			54	21.7
	60			60			60	19.9
66		66		66	18.5			

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

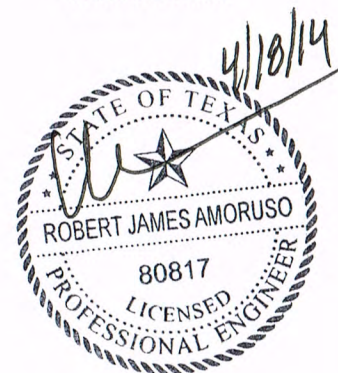
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

PREPARED BY: RJA
DRAWN BY: RJA
DATE: 01/28/14
SCALE: N.T.S.
DRAWING NO: PELL0035
SHEET: 16 OF 26

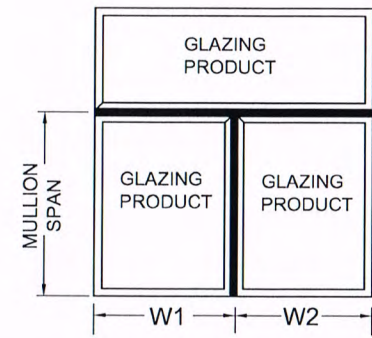
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Texas PE No. 80817



1/2" VERTICAL REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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

MULLION TABLE 3.1A - WOOD/TAPPING SCREWS & CONCRETE SCREWS/CONCRETE								
(VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing 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	74.9			
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	69.2
	60	75.0		60	75.0		60	65.0
66	75.0	66	75.0	66	61.9			
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	66.5
	48	75.0		48	75.0		48	59.9
	54	75.0		54	75.0		54	55.0
	60	75.0		60	75.0		60	51.3
66	75.0	66	75.0	66	48.6			
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	73.1		30	73.1
	36	75.0		36	62.0		36	62.0
	42	75.0		42	54.2		42	54.2
	48	75.0		48	48.6		48	48.6
	54	75.0		54	44.5		54	44.5
	60	75.0		60	41.3		60	41.3
66	75.0	66	38.9	66	38.9			

MULLION TABLE 3.1B - CONCRETE SCREWS/MASONRY (CMU BLOCK)								
(VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing 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	75.0		54	45.7
	60	75.0		60	75.0		60	43.2
66	75.0	66	75.0	66	41.3			
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	64.0		30	64.0
	36	75.0		36	55.4		36	55.4
	42	75.0		42	49.4		42	49.4
	48	75.0		48	45.0		48	45.0
	54	75.0		54	41.7		54	41.7
	60	75.0		60	39.3		60	39.3
66	75.0	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

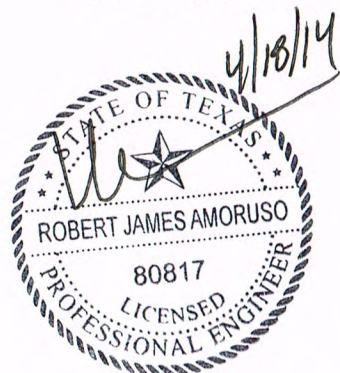
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - REINF. MULL - TABLE 3.1A/B



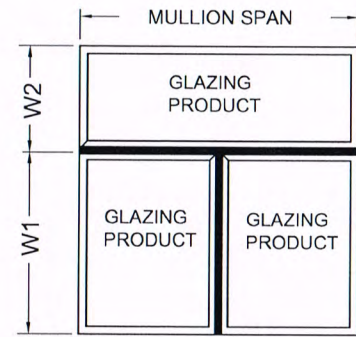
DATE: 01/28/14
DRAWING NO.: PELL0035
SHEET: 17 OF 26
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

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



1/2" HORIZONTAL REINFORCED MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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

MULLION TABLE 3.2A - WOOD/TAPPING SCREWS & CONCRETE SCREWS/CONCRETE (HORIZONTAL 3-WAY SPAN — 1/2" Standard Aluminum REINFORCING MULLION) 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	52.1			
	36	75.0		36	44.8			
	42	75.0		42	39.4			
	48	75.0		48	35.3			
	54	75.0		54	32.2			
	60	75.0		60	29.8			
	66	75.0		66	27.7			
54	24	75.0	84	24	75.0	114	24	50.2
	30	75.0		30	44.4			
	36	75.0		36	37.8			
	42	75.0		42	33.2			
	48	75.0		48	29.7			
	54	75.0		54	27.1			
	60	75.0		60	25.0			
	66	75.0		66	23.2			
60	24	75.0	90	24	75.0	120	24	45.9
	30	75.0		30	37.8			
	36	75.0		36	32.2			
	42	75.0		42	28.2			
	48	75.0		48	25.2			
	54	75.0		54	23.0			
	60	75.0		60	21.2			
	66	75.0		66	19.7			
66	24	75.0	96	24	75.0	102	24	67.8
	30	75.0		30	63.8			
	36	75.0		36	60.6			
	42	75.0		42	57.3			
	48	75.0		48	51.6			
	54	75.0		54	47.2			
	60	75.0		60	43.7			
	66	75.0		66	40.8			
72	24	75.0	102	24	75.0	102	24	61.0
	30	75.0		30	57.5			
	36	75.0		36	53.7			
	42	75.0		42	47.2			
	48	75.0		48	42.5			
	54	75.0		54	38.8			
	60	75.0		60	35.8			
	66	75.0		66	33.4			

MULLION TABLE 3.2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL 3-WAY SPAN — 1/2" Standard Aluminum Reinforcing Mullion 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	36.1			
	36	75.0		36	34.3			
	42	75.0		42	32.8			
	48	75.0		48	31.5			
	54	75.0		54	32.2			
	60	75.0		60	29.8			
	66	75.0		66	27.7			
54	24	75.0	84	24	59.2	114	24	34.8
	30	75.0		30	32.9			
	36	75.0		36	31.2			
	42	75.0		42	29.9			
	48	75.0		48	28.8			
	54	75.0		54	27.1			
	60	75.0		60	25.0			
	66	75.0		66	23.2			
60	24	75.0	90	24	52.5	120	24	31.8
	30	75.0		30	30.1			
	36	75.0		36	28.6			
	42	75.0		42	27.4			
	48	75.0		48	25.2			
	54	75.0		54	23.0			
	60	75.0		60	21.2			
	66	75.0		66	19.7			
66	24	75.0	96	24	47.0	102	24	42.2
	30	75.0		30	39.8			
	36	75.0		36	37.8			
	42	75.0		42	36.2			
	48	75.0		48	34.8			
	54	75.0		54	38.4			
	60	75.0		60	35.8			
	66	75.0		66	33.4			
72	24	75.0	102	24	42.2	102	24	31.4
	30	75.0		30	39.8			
	36	75.0		36	37.8			
	42	75.0		42	36.2			
	48	75.0		48	34.8			
	54	75.0		54	38.4			
	60	75.0		60	35.8			
	66	75.0		66	33.4			


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.

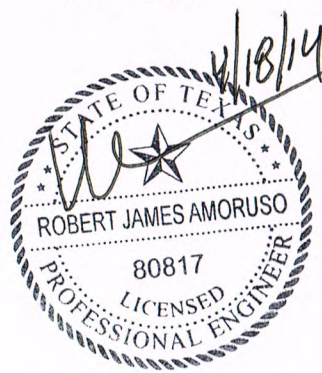
PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - REINF. MULL - TABLE 3.2A/B

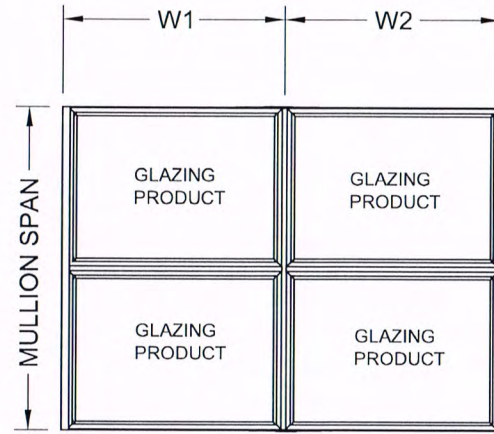
PREPARED BY:  DATE: 01/28/14
DRAWN BY: RJA DRAWING NO: PELL0035
SCALE: N.T.S. REV: --- SHEET: 18 OF 26
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1/2" VERTICAL REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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

MULLION TABLE 4.1A - WOOD/TAPPING SCREWS & CONCRETE SCREWS/CONCRETE (VERTICAL 4-WAY SPAN — 1/2" Standard 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	74.9			
	36	75.0		36	63.3			
	42	75.0		42	55.0			
	48	75.0		48	48.8			
	54	75.0		54	43.9			
	60	75.0		60	39.9			
	66	75.0		66	36.6			
72	75.0	72	33.8					
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	62.2			
	36	75.0		36	52.5			
	42	75.0		42	45.6			
	48	75.0		48	40.4			
	54	75.0		54	36.4			
	60	75.0		60	33.1			
	66	75.0		66	30.3			
72	75.0	72	28.0					
48	24	75.0	78	24	75.0	108	24	64.5
	30	75.0		30	52.2			
	36	75.0		36	44.0			
	42	75.0		42	38.2			
	48	75.0		48	33.8			
	54	75.0		54	30.4			
	60	75.0		60	27.7			
	66	75.0		66	25.4			
72	75.0	72	23.5					
54	24	75.0	84	24	75.0	114	24	54.7
	30	75.0		30	44.3			
	36	75.0		36	37.3			
	42	75.0		42	32.3			
	48	75.0		48	28.6			
	54	75.0		54	25.7			
	60	75.0		60	23.4			
	66	75.0		66	21.5			
72	75.0	72	19.9					
60	24	75.0	90	24	75.0	120	24	46.8
	30	75.0		30	37.8			
	36	75.0		36	31.9			
	42	75.0		42	27.6			
	48	75.0		48	24.4			
	54	75.0		54	22.0			
	60	75.0		60	20.0			
	66	75.0		66	18.3			
72	75.0	72	17.0					

MULLION TABLE 4.1B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (VERTICAL 4-WAY SPAN — 1/2" Standard 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	64.0			
	36	75.0		36	55.4			
	42	75.0		42	49.4			
	48	75.0		48	45.0			
	54	75.0		54	41.7			
	60	75.0		60	39.3			
	66	75.0		66	36.6			
72	75.0	72	33.8					
42	24	75.0	72	24	75.0	102	24	72.0
	30	75.0		30	59.6			
	36	75.0		36	51.4			
	42	75.0		42	45.6			
	48	75.0		48	40.4			
	54	75.0		54	36.4			
	60	75.0		60	33.1			
	66	75.0		66	30.3			
72	75.0	72	28.0					
48	24	75.0	78	24	75.0	108	24	64.5
	30	75.0		30	52.2			
	36	75.0		36	44.0			
	42	75.0		42	38.2			
	48	75.0		48	33.8			
	54	75.0		54	30.4			
	60	75.0		60	27.7			
	66	75.0		66	25.4			
72	75.0	72	23.5					
54	24	75.0	84	24	75.0	114	24	54.7
	30	75.0		30	44.3			
	36	75.0		36	37.3			
	42	75.0		42	32.3			
	48	75.0		48	28.6			
	54	75.0		54	25.7			
	60	75.0		60	23.4			
	66	75.0		66	21.5			
72	75.0	72	19.9					
60	24	75.0	90	24	75.0	120	24	46.8
	30	75.0		30	37.8			
	36	75.0		36	31.9			
	42	75.0		42	27.6			
	48	75.0		48	24.4			
	54	75.0		54	22.0			
	60	75.0		60	20.0			
	66	75.0		66	18.3			
72	75.0	72	17.0					

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

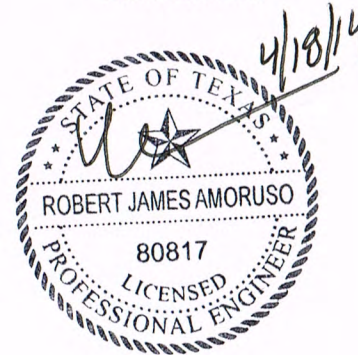
SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK FRAME - REINF. MULL - TABLE 4.1A/B

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

DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 19 OF 26

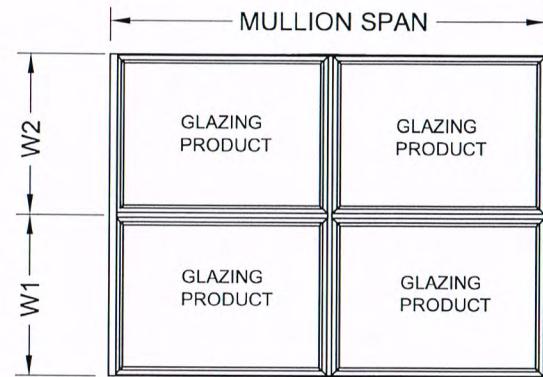
PTC PRODUCT DESIGN GROUP, LLC
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LONGWOOD, FLORIDA 32752
TX Reg. No. F-13740
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

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



1/2" HORIZONTAL REINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK FRAME (CLIP V982535) INSTALLATION



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

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.

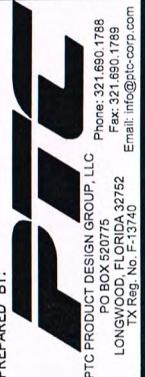
MULLION TABLE 4.2A - WOOD/TAPPING SCREWS & CONCRETE SCREWS/CONCRETE (HORIZONTAL 4-WAY SPAN — 1/2" Standard Aluminum Reinforcing Mull) Horizontal mull in 4-way transom/side-by-side assembly.								
MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)	MULL SPAN	LOAD WIDTH	DP (PSF)
36	24	75.0	66	24	75.0	96	24	75.0
	30	75.0		30	75.0		30	75.0
	36	75.0		36	75.0		36	66.1
	42	75.0		42	75.0		42	56.5
	48	75.0		48	75.0		48	48.8
	54	75.0		54	75.0		54	42.7
60	75.0	60	75.0	60	37.7			
42	24	75.0	72	24	75.0	102	24	71.8
	30	75.0		30	75.0		30	63.3
	36	75.0		36	75.0		36	54.9
	42	75.0		42	75.0		42	47.3
	48	75.0		48	75.0		48	40.9
	54	75.0		54	75.0		54	35.9
60	75.0	60	75.0	60	31.8			
48	24	75.0	78	24	75.0	108	24	58.5
	30	75.0		30	75.0		30	52.3
	36	75.0		36	75.0		36	45.9
	42	75.0		42	75.0		42	39.9
	48	75.0		48	75.0		48	34.7
	54	75.0		54	72.5		54	30.4
60	75.0	60	65.6	60	27.0			
54	24	75.0	84	24	75.0	114	24	48.1
	30	75.0		30	75.0		30	43.5
	36	75.0		36	75.0		36	38.6
	42	75.0		42	75.0		42	33.8
	48	75.0		48	68.2		48	29.6
	54	75.0		54	61.6		54	26.0
60	75.0	60	54.1	60	23.2			
60	24	75.0	90	24	75.0	120	24	39.8
	30	75.0		30	75.0		30	36.4
	36	75.0		36	75.0		36	45.9
	42	75.0		42	67.5		42	28.9
	48	75.0		48	58.7		48	25.4
	54	75.0		54	51.2		54	22.4
60	75.0	60	45.0	60	20.0			

MULLION TABLE 4.2B - CONCRETE SCREWS/MASONRY (CMU BLOCK) (HORIZONTAL 4-WAY SPAN — 1/2" Standard Aluminum Reinforcing Mull W/Reinforcement) 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
60	75.0	60	72.0	60	37.7			
42	24	75.0	72	24	75.0	102	24	71.8
	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	40.9
	54	75.0		54	64.0		54	35.9
60	75.0	60	61.7	60	31.8			
48	24	75.0	78	24	75.0	108	24	58.5
	30	75.0		30	75.0		30	52.3
	36	75.0		36	72.0		36	45.9
	42	75.0		42	65.0		42	39.9
	48	75.0		48	60.0		48	34.7
	54	75.0		54	56.5		54	30.4
60	75.0	60	54.0	60	27.0			
54	24	75.0	84	24	75.0	114	24	48.1
	30	75.0		30	75.0		30	43.5
	36	75.0		36	75.0		36	38.6
	42	75.0		42	75.0		42	33.8
	48	75.0		48	75.0		48	29.6
	54	75.0		54	75.0		54	26.0
60	75.0	60	75.0	60	23.2			
60	24	75.0	90	24	75.0	120	24	39.8
	30	75.0		30	75.0		30	36.4
	36	75.0		36	75.0		36	45.9
	42	75.0		42	75.0		42	28.9
	48	75.0		48	75.0		48	25.4
	54	75.0		54	75.0		54	22.4
60	75.0	60	75.0	60	20.0			

PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

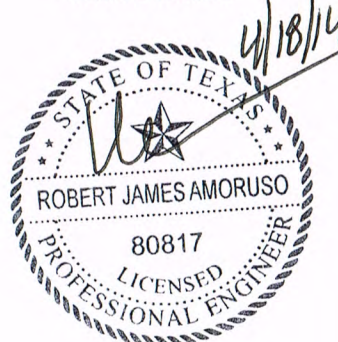
SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
BLOCK/FLANGE FRAME - REINF. MULL - TABLE 4.2A/B



DATE: 01/28/14
DRAWING NO.: PELL0035
SHEET: 20 OF 26

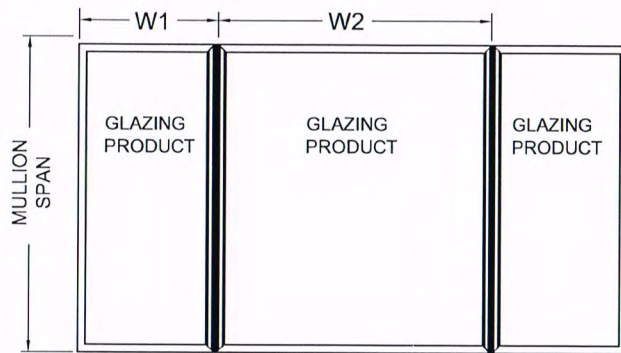
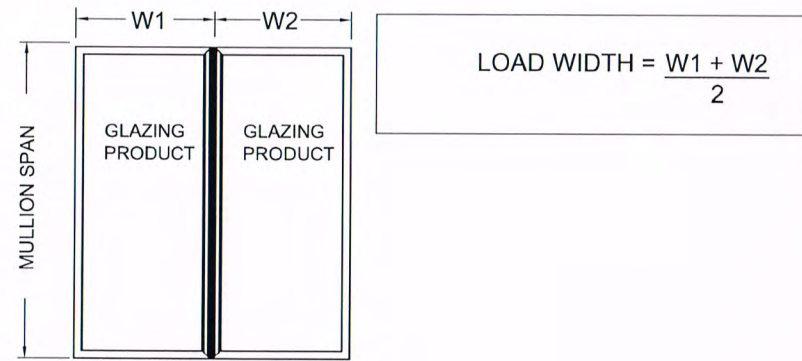
DRAWN BY: RJA
SCALE: N.T.S.
REV: ---

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



1/2" VERTICAL UNREINF. & REINF. MULLION MULTI-WIDE CONFIGURATION

FIN FRAME (CLIP V984357) INSTALLATION



MULLION TABLE 1A
(VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing 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	54.5
	30	75.0		30	44.2			
	36	75.0		36	37.5			
	42	75.0		42	32.8			
	48	75.0		48	29.4			
	54	75.0		54	26.9			
	60	75.0		60	25.0			
	66	75.0		66	23.6			
72	75.0	72	22.5					
30	24	75.0	66	24	75.0	102	24	45.3
	30	75.0		30	36.7			
	36	75.0		36	31.1			
	42	75.0		42	27.1			
	48	75.0		48	24.3			
	54	75.0		54	22.1			
	60	75.0		60	20.5			
	66	75.0		66	19.2			
72	75.0	72	18.2					
36	24	75.0	72	24	75.0	108	24	38.1
	30	75.0		30	30.8			
	36	75.0		36	26.0			
	42	75.0		42	22.7			
	48	75.0		48	20.2			
	54	75.0		54	18.4			
	60	75.0		60	17.0			
	66	75.0		66	15.9			
72	75.0	72	15.0					
42	24	75.0	78	24	75.0	114	24	32.3
	30	75.0		30	26.1			
	36	75.0		36	22.0			
	42	75.0		42	19.2			
	48	75.0		48	17.1			
	54	75.0		54	15.5			
	60	75.0		60	14.2			
	66	75.0		66	13.3			
72	75.0	72	12.5					
48	24	75.0	84	24	75.0	120	24	27.7
	30	75.0		30	22.3			
	36	75.0		36	18.8			
	42	75.0		42	16.3			
	48	75.0		48	14.5			
	54	75.0		54	13.1			
	60	75.0		60	12.1			
	66	75.0		66	11.2			
72	75.0	72	10.5					
54	24	75.0	90	24	66.4		24	75.0
	30	75.0		30	54.0			
	36	75.0		36	45.9			
	42	75.0		42	40.3			
	48	75.0		48	36.3			
	54	75.0		54	33.3			
	60	75.0		60	31.1			
	66	75.0		66	29.5			
72	75.0	72	28.3					

MULLION TABLE 1B
(VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing Mull w/Reinforcement)
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	73.1			
	36	75.0		36	62.0			
	42	75.0		42	54.2			
	48	75.0		48	48.6			
	54	75.0		54	44.5			
	60	75.0		60	41.3			
	66	75.0		66	38.9			
72	75.0	72	37.1					
30	24	75.0	66	24	75.0	102	24	74.8
	30	75.0		30	60.6			
	36	75.0		36	51.3			
	42	75.0		42	44.8			
	48	75.0		48	40.1			
	54	75.0		54	36.5			
	60	75.0		60	33.8			
	66	75.0		66	31.7			
72	75.0	72	30.1					
36	24	75.0	72	24	75.0	108	24	62.9
	30	75.0		30	50.9			
	36	75.0		36	43.0			
	42	75.0		42	37.5			
	48	75.0		48	33.4			
	54	75.0		54	30.4			
	60	75.0		60	28.0			
	66	75.0		66	26.2			
72	75.0	72	24.8					
42	24	75.0	78	24	75.0	114	24	53.4
	30	75.0		30	43.1			
	36	75.0		36	36.4			
	42	75.0		42	31.6			
	48	75.0		48	28.2			
	54	75.0		54	25.5			
	60	75.0		60	23.5			
	66	75.0		66	21.9			
72	75.0	72	20.6					
48	24	75.0	84	24	75.0	120	24	45.7
	30	75.0		30	36.9			
	36	75.0		36	31.1			
	42	75.0		42	27.0			
	48	75.0		48	24.0			
	54	75.0		54	21.7			
	60	75.0		60	19.9			
	66	75.0		66	18.5			
72	75.0	72	17.4					
54	24	75.0	90	24	75.0		24	75.0
	30	75.0		30	75.0			
	36	75.0		36	75.0			
	42	75.0		42	66.5			
	48	75.0		48	59.9			
	54	75.0		54	55.0			
	60	75.0		60	51.3			
	66	75.0		66	48.6			
72	75.0	72	46.7					

TABLE 1A ANCHOR QUANTITIES (PER CLIP END)

SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	3
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	5
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	7
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.		
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

TABLE 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 # 414-0106

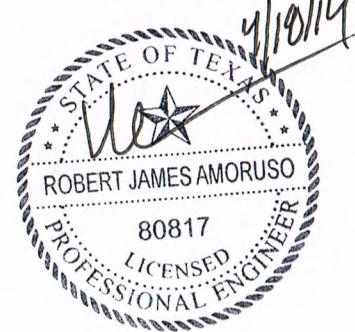
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 1A/B

PREPARED BY: RJA
 DRAWN BY: RJA
 DATE: 01/28/14
 SCALE: N.T.S.
 DRAWING NO.: PELL0035
 SHEET: 21 OF 26
 REV: ---

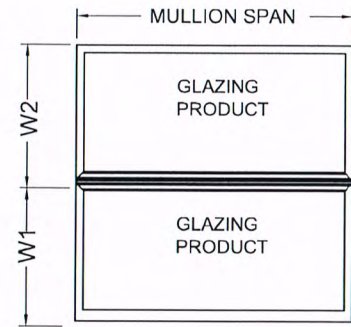
PTC PRODUCT DESIGN GROUP, LLC
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 LONGWOOD, FLORIDA 32752
 TX Reg. No. F-13740
 Phone: 321.680.1788
 Fax: 321.680.1789
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Robert J. Amoruso, P.E.
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1/2" HORIZONTAL UNREINF. & REINF. MULLION MULTI-HIGH CONFIGURATION

FIN FRAME (CLIP V984357) INSTALLATION



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

MULLION TABLE 2A (HORIZONTAL SPAN — 1/2" Standard Aluminum Reinforcing 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	54.5
	30	75.0		30	44.2			
	36	75.0		36	37.5			
	42	75.0		42	32.8			
	48	75.0		48	29.4			
	54	75.0		54	26.9			
	60	75.0		60	25.0			
	66	75.0		66	23.6			
54	24	75.0	78	24	75.0	102	24	45.3
	30	75.0		30	36.7			
	36	75.0		36	31.1			
	42	75.0		42	27.1			
	48	75.0		48	24.3			
	54	75.0		54	22.1			
	60	75.0		60	20.5			
	66	75.0		66	19.2			
60	24	75.0	84	24	75.0	108	24	38.1
	30	75.0		30	30.8			
	36	75.0		36	26.0			
	42	75.0		42	22.7			
	48	75.0		48	20.2			
	54	75.0		54	18.4			
	60	75.0		60	17.0			
	66	75.0		66	15.9			
66	24	75.0	90	24	66.4	114	24	32.3
	30	75.0		30	54.0			
	36	75.0		36	45.9			
	42	75.0		42	40.3			
	48	75.0		48	36.3			
	54	75.0		54	33.3			
	60	73.3		60	31.1			
	66	72.4		66	29.5			
120	24	27.7	120	24	45.7			
	30	22.3		30	36.9			
	36	18.8		36	31.1			
	42	16.3		42	27.0			
	48	14.5		48	24.0			
	54	13.1		54	21.7			
	60	12.1		60	19.9			
66	11.2	66	18.5					

MULLION TABLE 2B (HORIZONTAL SPAN — 1/2" Standard Aluminum Reinforcing 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	73.1			
	36	75.0		36	62.0			
	42	75.0		42	54.2			
	48	75.0		48	48.6			
	54	75.0		54	44.5			
	60	75.0		60	41.3			
	66	75.0		66	38.9			
54	24	75.0	78	24	75.0	102	24	74.8
	30	75.0		30	60.6			
	36	75.0		36	51.3			
	42	75.0		42	44.8			
	48	75.0		48	40.1			
	54	75.0		54	36.5			
	60	75.0		60	33.8			
	66	75.0		66	31.7			
60	24	75.0	84	24	75.0	108	24	62.9
	30	75.0		30	50.9			
	36	75.0		36	43.0			
	42	75.0		42	37.5			
	48	75.0		48	33.4			
	54	75.0		54	30.4			
	60	75.0		60	28.0			
	66	75.0		66	26.2			
66	24	75.0	90	24	75.0	114	24	53.4
	30	75.0		30	43.1			
	36	75.0		36	36.4			
	42	75.0		42	31.6			
	48	75.0		48	28.2			
	54	75.0		54	25.5			
	60	75.0		60	23.5			
	66	75.0		66	21.9			

TABLE 2A ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	3
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	5
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	7
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS. 2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

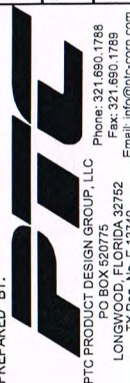
TABLE 2B ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	4
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	7
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	9
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS. 2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 2A/B

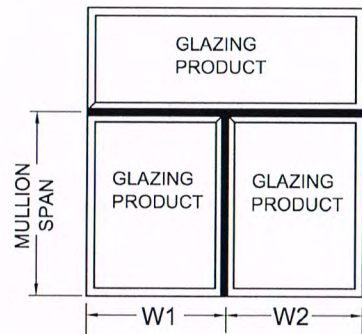
PREPARED BY: RJA
DRAWN BY: RJA
DATE: 01/28/14
SCALE: N.T.S.
DRAWING NO: PELL0035
REV: ---
SHEET: 22 OF 26



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

1/2" VERTICAL UNREINF. & REINF. MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION

FIN FRAME (CLIP V984357) INSTALLATION



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

MULLION TABLE 3.1A (VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing 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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	75.0			
66	75.0	66	75.0					
42	24	75.0	66	24	75.0	90	24	66.4
	30	75.0		30	75.0			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	73.3			
66	75.0	66	72.4					
48	24	75.0	72	24	75.0	96	24	54.5
	30	75.0		30	75.0			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	75.0			
66	75.0	66	75.0					

MULLION TABLE 3.1B (VERTICAL SPAN — 1/2" Standard Aluminum Reinforcing 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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	75.0			
66	75.0	66	75.0					
42	24	75.0	66	24	75.0	90	24	75.0
	30	75.0		30	75.0			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	75.0			
66	75.0	66	75.0					
48	24	75.0	72	24	75.0	96	24	75.0
	30	75.0		30	75.0			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
	60	75.0		60	75.0			
66	75.0	66	75.0					

TABLE 3.1A ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	3
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	5
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	7

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

TABLE 3.1B 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.

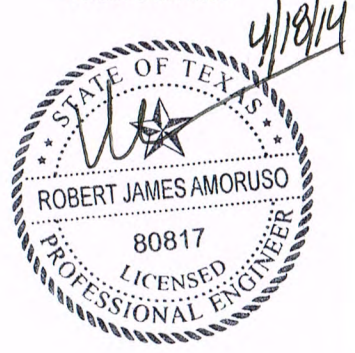
PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 3.1A/B

PREPARED BY: DATE: 01/28/14
DRAWN BY: RJA SCALE: N.T.S.
DRAWING NO: PELL0035 SHEET: 23 OF 26
PTC PRODUCT DESIGN GROUP, LLC Phone: 321.680.1788
PO BOX 520775 Fax: 321.680.1789
LONGWOOD, FLORIDA 32752 Email: info@pdc-corp.com
TX Reg. No. F-13740

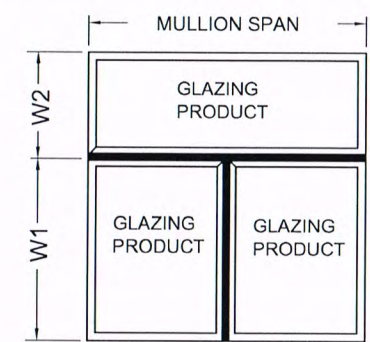
Robert J. Amoruso, P.E.
Texas PE No. 80817



1/2" HORIZONTAL UNREINF. & REINF.

FIN FRAME (CLIP V984357) INSTALLATION

MULLION IN A TRANSOM OVER A MULTI-WIDE CONFIGURATION



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

MULLION TABLE 3.2A (HORIZONTAL 3-WAY SPAN — 1/2" Standard Aluminum REINFORCING MULLION) 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	38.8
	30	75.0		30	31.8			
	36	75.0		36	27.1			
	42	75.0		42	23.8			
	48	75.0		48	21.4			
	54	75.0		54	19.5			
	60	75.0		60	18.0			
	66	75.0		66	16.8			
72	75.0	72	15.8					
54	24	75.0	84	24	75.0	114	24	32.9
	30	75.0		30	26.9			
	36	75.0		36	22.9			
	42	75.0		42	20.1			
	48	75.0		48	18.0			
	54	75.0		54	16.4			
	60	75.0		60	15.1			
	66	75.0		66	14.1			
72	75.0	72	13.2					
60	24	75.0	90	24	68.4	120	24	28.1
	30	75.0		30	56.3			
	36	75.0		36	48.3			
	42	75.0		42	42.7			
	48	75.0		48	38.5			
	54	75.0		54	35.3			
	60	75.0		60	32.7			
	66	75.0		66	30.6			
72	75.0	72	28.8					
66	24	75.0	96	24	55.9	126	24	25.0
	30	75.0		30	46.0			
	36	75.0		36	39.4			
	42	75.0		42	34.7			
	48	75.0		48	31.3			
	54	74.1		54	28.6			
	60	68.7		60	26.5			
	66	64.3		66	24.7			
72	60.7	72	23.2					
72	24	75.0	102	24	46.4	132	24	22.9
	30	75.0		30	38.0			
	36	75.0		36	32.5			
	42	74.6		42	28.6			
	48	66.9		48	25.7			
	54	61.0		54	23.5			
	60	56.3		60	21.7			
	66	52.6		66	20.2			
72	49.6	72	19.0					

MULLION TABLE 3.2B (HORIZONTAL 3-WAY SPAN — 1/2" Standard Aluminum Reinforcing Mullion 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	64.1
	30	75.0		30	52.5			
	36	75.0		36	44.8			
	42	75.0		42	39.4			
	48	75.0		48	35.3			
	54	75.0		54	32.2			
	60	75.0		60	29.8			
	66	75.0		66	27.7			
72	75.0	72	26.0					
54	24	75.0	84	24	75.0	114	24	54.3
	30	75.0		30	44.4			
	36	75.0		36	37.8			
	42	75.0		42	33.2			
	48	75.0		48	29.7			
	54	75.0		54	27.1			
	60	75.0		60	25.0			
	66	75.0		66	23.2			
72	75.0	72	21.8					
60	24	75.0	90	24	75.0	120	24	46.3
	30	75.0		30	37.8			
	36	75.0		36	32.2			
	42	75.0		42	28.2			
	48	75.0		48	25.2			
	54	75.0		54	23.0			
	60	75.0		60	21.2			
	66	75.0		66	19.7			
72	75.0	72	18.4					
66	24	75.0	96	24	75.0	126	24	42.9
	30	75.0		30	35.0			
	36	75.0		36	29.0			
	42	75.0		42	25.3			
	48	75.0		48	22.6			
	54	75.0		54	20.5			
	60	75.0		60	18.8			
	66	75.0		66	17.5			
72	75.0	72	16.4					
72	24	75.0	102	24	75.0	132	24	40.0
	30	75.0		30	32.8			
	36	75.0		36	28.7			
	42	75.0		42	25.2			
	48	75.0		48	22.5			
	54	75.0		54	20.4			
	60	75.0		60	18.8			
	66	75.0		66	17.5			
72	75.0	72	16.4					

SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	3
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	5
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	7

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

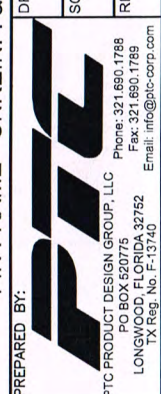
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT # 414-0106

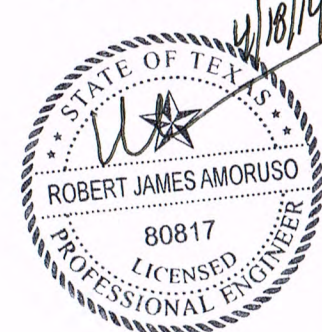
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 3.2A/B

PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 24 OF 26

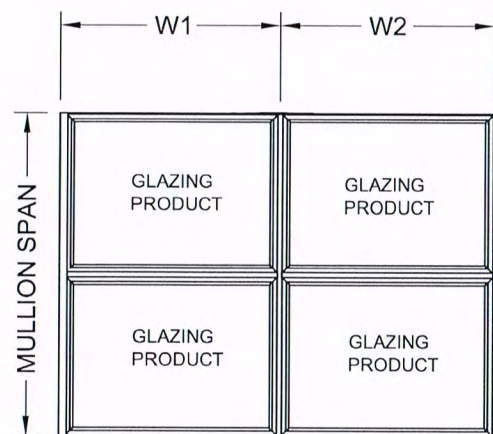


Robert J. Amoroso, P.E.
Texas PE No. 80817



FIN FRAME (CLIP V984357) INSTALLATION

1/2" VERTICAL UNREINF. & REINF. MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION



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

MULLION TABLE 4.1A (VERTICAL 4-WAY SPAN — 1/2" Standard 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	55.9
	30	75.0		30	75.0		30	45.4
	36	75.0		36	75.0		36	38.3
	42	75.0		42	73.1		42	33.3
	48	75.0		48	66.3		48	29.5
	54	75.0		54	59.0		54	26.6
	60	75.0		60	53.1		60	24.2
	66	75.0		66	48.3		66	22.1
72	75.0	72	44.2	72	20.4			
42	24	75.0	72	24	75.0	102	24	46.5
	30	75.0		30	75.0		30	37.7
	36	75.0		36	71.1		36	31.8
	42	75.0		42	63.7		42	27.6
	48	75.0		48	55.7		48	24.5
	54	75.0		54	49.6		54	22.0
	60	75.0		60	44.6		60	20.0
	66	75.0		66	40.5		66	18.4
72	75.0	72	37.2	72	17.0			
48	24	75.0	78	24	75.0	108	24	39.1
	30	75.0		30	73.1		30	31.6
	36	75.0		36	63.3		36	26.7
	42	75.0		42	54.3		42	23.1
	48	75.0		48	47.5		48	20.5
	54	75.0		54	42.2		54	18.4
	60	75.0		60	38.0		60	16.8
	66	75.0		66	34.5		66	15.4
72	75.0	72	31.7	72	14.2			
54	24	75.0	84	24	75.0	114	24	33.1
	30	75.0		30	65.5		30	26.8
	36	75.0		36	54.6		36	22.6
	42	75.0		42	46.8		42	19.6
	48	75.0		48	41.0		48	17.3
	54	75.0		54	36.4		54	15.6
	60	75.0		60	32.8		60	14.2
	66	72.1		66	29.8		66	13.0
72	66.1	72	27.3	72	12.0			
60	24	75.0	90	24	68.1	120	24	28.3
	30	75.0		30	55.3		30	22.9
	36	75.0		36	46.7		36	19.3
	42	75.0		42	40.7		42	16.7
	48	75.0		48	35.7		48	14.8
	54	71.4		54	31.7		54	13.3
	60	64.2		60	28.5		60	12.1
	66	58.4		66	25.9		66	11.1
72	53.5	72	23.8	72	10.3			

MULLION TABLE 4.1B (VERTICAL 4-WAY SPAN — 1/2" Standard 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	74.9
	36	75.0		36	75.0		36	63.3
	42	75.0		42	75.0		42	55.0
	48	75.0		48	75.0		48	48.8
	54	75.0		54	75.0		54	43.9
	60	75.0		60	75.0		60	39.9
	66	75.0		66	75.0		66	36.6
72	75.0	72	73.0	72	33.8			
42	24	75.0	72	24	75.0	102	24	75.0
	30	75.0		30	75.0		30	62.2
	36	75.0		36	75.0		36	52.5
	42	75.0		42	75.0		42	45.6
	48	75.0		48	75.0		48	40.4
	54	75.0		54	75.0		54	36.4
	60	73.7		60	73.7		60	33.1
	66	67.0		66	67.0		66	30.3
72	61.4	72	61.4	72	28.0			
48	24	75.0	78	24	75.0	108	24	64.5
	30	75.0		30	75.0		30	52.2
	36	75.0		36	75.0		36	44.0
	42	75.0		42	75.0		42	38.2
	48	75.0		48	75.0		48	33.8
	54	75.0		54	69.7		54	30.4
	60	75.0		60	62.8		60	27.7
	66	75.0		66	57.1		66	25.4
72	75.0	72	52.3	72	23.5			
54	24	75.0	84	24	75.0	114	24	54.7
	30	75.0		30	75.0		30	44.3
	36	75.0		36	75.0		36	37.3
	42	75.0		42	75.0		42	32.3
	48	75.0		48	75.0		48	28.6
	54	75.0		54	60.1		54	25.7
	60	75.0		60	54.1		60	23.4
	66	75.0		66	49.2		66	21.5
72	75.0	72	45.1	72	19.9			
60	24	75.0	90	24	75.0	120	24	46.8
	30	75.0		30	75.0		30	37.8
	36	75.0		36	75.0		36	31.9
	42	75.0		42	75.0		42	27.6
	48	75.0		48	75.0		48	24.4
	54	75.0		54	52.4		54	22.0
	60	75.0		60	47.1		60	20.0
	66	75.0		66	42.9		66	18.3
72	75.0	72	39.3	72	17.0			

TABLE 4.1A ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	2
1/8" THICK ASTM A-36	TAPPING SCREW	2
1/8" THICK 6063-T5	TAPPING SCREW	4
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	5
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.		
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

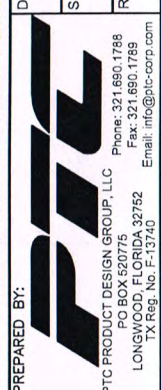
TABLE 4.1B ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	4
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	7
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	9
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.		
2) ANCHOR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

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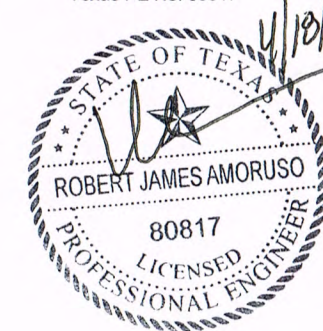
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 4.1A/B

PREPARED BY: PTC
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0035
SHEET: 25 OF 26



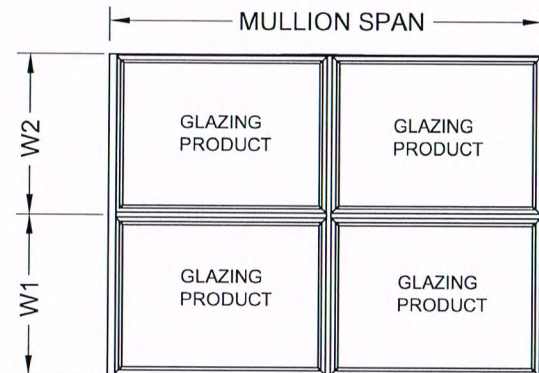
Robert J. Amoruso, P.E.
Texas PE No. 80817



1/2" HORIZONTAL UNREINF. & REINF.

FIN FRAME (CLIP V984357) INSTALLATION

MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION



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

MULLION TABLE 4.2A (HORIZONTAL 4-WAY SPAN — 1/2" Standard Aluminum Reinforcing 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	53.8
	30	75.0		30	46.8			
	36	75.0		36	40.0			
	42	75.0		42	34.2			
	48	75.0		48	29.5			
	54	75.0		54	25.9			
42	24	75.0	72	24	75.0	102	24	43.5
	30	75.0		30	38.4			
	36	75.0		36	33.2			
	42	75.0		42	28.6			
	48	75.0		48	24.8			
	54	75.0		54	21.7			
48	24	75.0	78	24	75.0	108	24	35.4
	30	75.0		30	31.7			
	36	75.0		36	27.8			
	42	75.0		42	24.1			
	48	75.0		48	21.0			
	54	75.0		54	18.4			
54	24	75.0	84	24	75.0	114	24	29.1
	30	75.0		30	26.3			
	36	75.0		36	23.3			
	42	75.0		42	20.5			
	48	75.0		48	17.9			
	54	75.0		54	15.8			
60	24	75.0	90	24	67.3	120	24	24.1
	30	75.0		30	57.6			
	36	75.0		36	48.5			
	42	75.0		42	40.9			
	48	75.0		48	35.6			
	54	75.0		54	31.0			
60	24	75.0	90	24	73.4	120	24	12.1
	30	75.0		30	73.4			
	36	75.0		36	73.4			
	42	75.0		42	73.4			
	48	75.0		48	73.4			
	54	75.0		54	73.4			

MULLION TABLE 4.2B (HORIZONTAL 4-WAY SPAN — 1/2" Standard Aluminum Reinforcing Mull W/Reinforcement) 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			
	36	75.0		36	75.0			
	42	75.0		42	75.0			
	48	75.0		48	75.0			
	54	75.0		54	75.0			
42	24	75.0	72	24	75.0	102	24	71.8
	30	75.0		30	63.3			
	36	75.0		36	54.9			
	42	75.0		42	47.3			
	48	75.0		48	40.9			
	54	75.0		54	35.9			
48	24	75.0	78	24	75.0	108	24	58.5
	30	75.0		30	52.3			
	36	75.0		36	45.9			
	42	75.0		42	39.9			
	48	75.0		48	34.7			
	54	75.0		54	30.4			
54	24	75.0	84	24	75.0	114	24	48.1
	30	75.0		30	43.5			
	36	75.0		36	38.6			
	42	75.0		42	33.8			
	48	75.0		48	29.6			
	54	75.0		54	26.0			
60	24	75.0	90	24	75.0	120	24	39.8
	30	75.0		30	36.4			
	36	75.0		36	45.9			
	42	75.0		42	28.9			
	48	75.0		48	25.4			
	54	75.0		54	22.4			
60	24	75.0	90	24	75.0	120	24	20.0
	30	75.0		30	75.0			
	36	75.0		36	75.0			
	42	75.0		42	67.5			
	48	75.0		48	58.7			
	54	75.0		54	51.2			

TABLE 4.2A ANCHOR QUANTITIES (PER CLIP END)		
SUBSTRATE	ANCHOR	MIN. QUANTITY
WOOD	WOOD OR TAPPING SCREW	3
1/8" THICK ASTM A-36	TAPPING SCREW	3
1/8" THICK 6063-T5	TAPPING SCREW	5
0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS)	TAPPING SCREW	7
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS. 2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.		

TABLE 4.2B 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 # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" STANDARD MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 4.2A/B



DATE: 01/28/14
DRAWING NO: PELLO0035
SHEET: 26 OF 26

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

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