

PELLA CORPORATION

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY

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

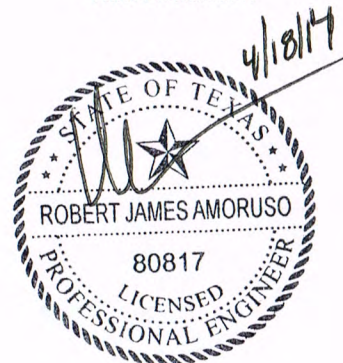
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

PREPARED BY: **PDC**
 DRAWN BY: RJA
 DATE: 01/28/14
 SCALE: N.T.S.
 DRAWING NO: PELL0034
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 SHEET: 1 OF 20

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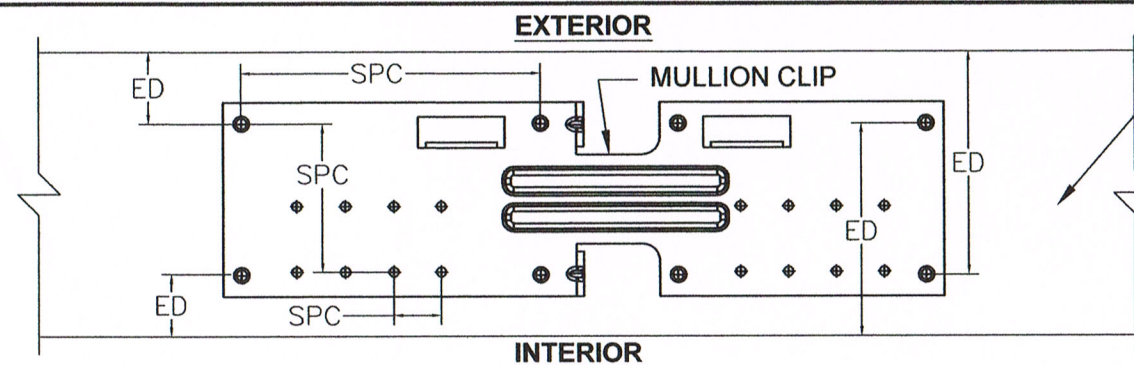


INSTALLATION ANCHOR SCHEDULE

| 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 | FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY | NO. 10 | ASME B18.6.4 (TAPPING SCREW) (2) | 9/32" | 9/16" | ALUMINUM 6063-T5 ALUMINUM OR BETTER |
| 1/8" THK. STEEL | | | | NO. 10 | | ASME B18.6.4 (TAPPING SCREW) (2) | 9/32" | 9/16" | ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER | |
| 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS | | | | NO. 10 | | ASME B18.6.4 (TAPPING SCREW) (2) | 9/32" | 9/16" | ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER | |
| 4 1/2" NAILING FIN FRAME | WOOD (1) | PAN HEAD | NO. 10 | ANSI B18.6.1 (WOOD SCREW) (2) ASME B18.6.4 (TAPPING SCREW) (2) | | 1-1/2" | 0.285" | 0.57" | WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42 | |
| | | | | 1/8" THK. ALUMINUM | FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY | NO. 10 | ASME B18.6.4 (TAPPING SCREW) (2) | 9/32" | 9/16" | ALUMINUM 6063-T5 ALUMINUM OR BETTER |
| | | | | 1/8" THK. STEEL | | NO. 10 | ASME B18.6.4 (TAPPING SCREW) (2) | 9/32" | 9/16" | ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER |
| | | | | 20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS | | NO. 10 | ASME B18.6.4 (TAPPING SCREW) (2) | 9/32" | 9/16" | ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER |

NOTES:

- 1) FOR WOOD AND TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR 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.



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" LIGHT DUTY MULLION - IMPACT
INSTALLATION ANCHOR SCHEDULE

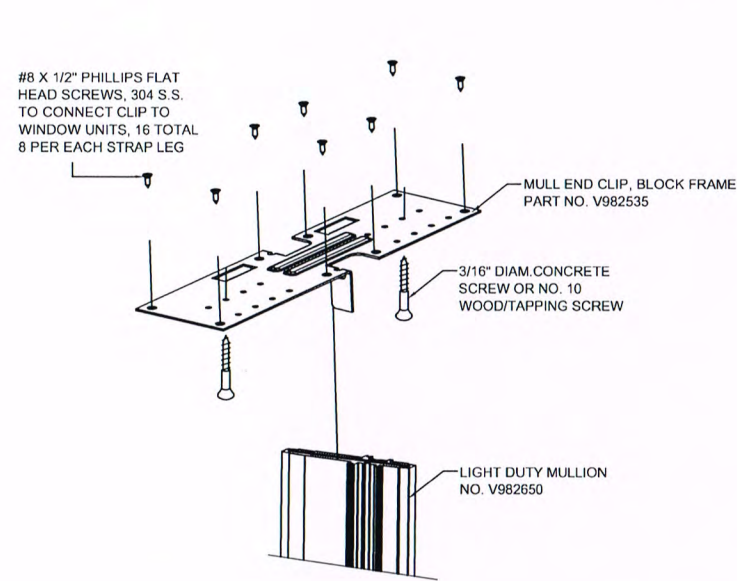
PREPARED BY: RJA
 DRAWN BY: RJA
 DATE: 01/28/14
 SCALE: N.T.S.
 SHEET: PELL0034
 REV: ---
 2 OF 20

Robert J. Amoruso, P.E.
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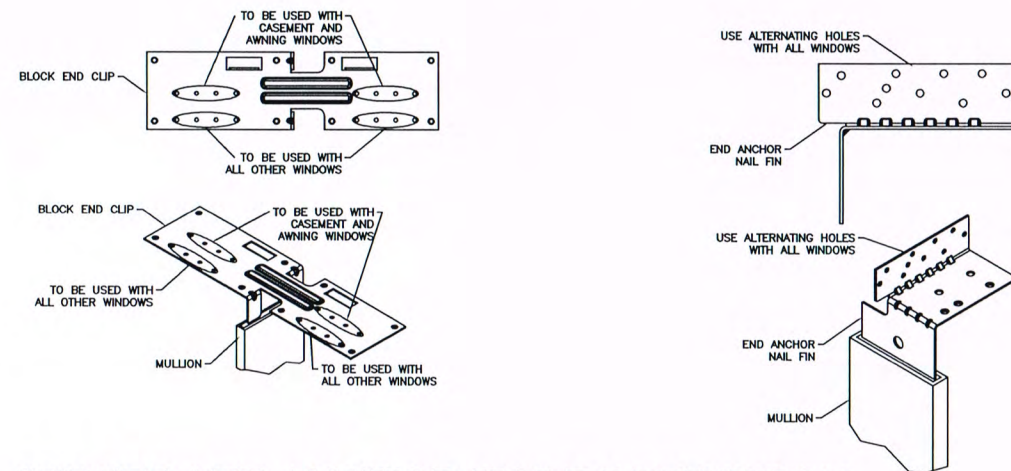


EDGE DISTANCE AND SPACING DESCRIPTION

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



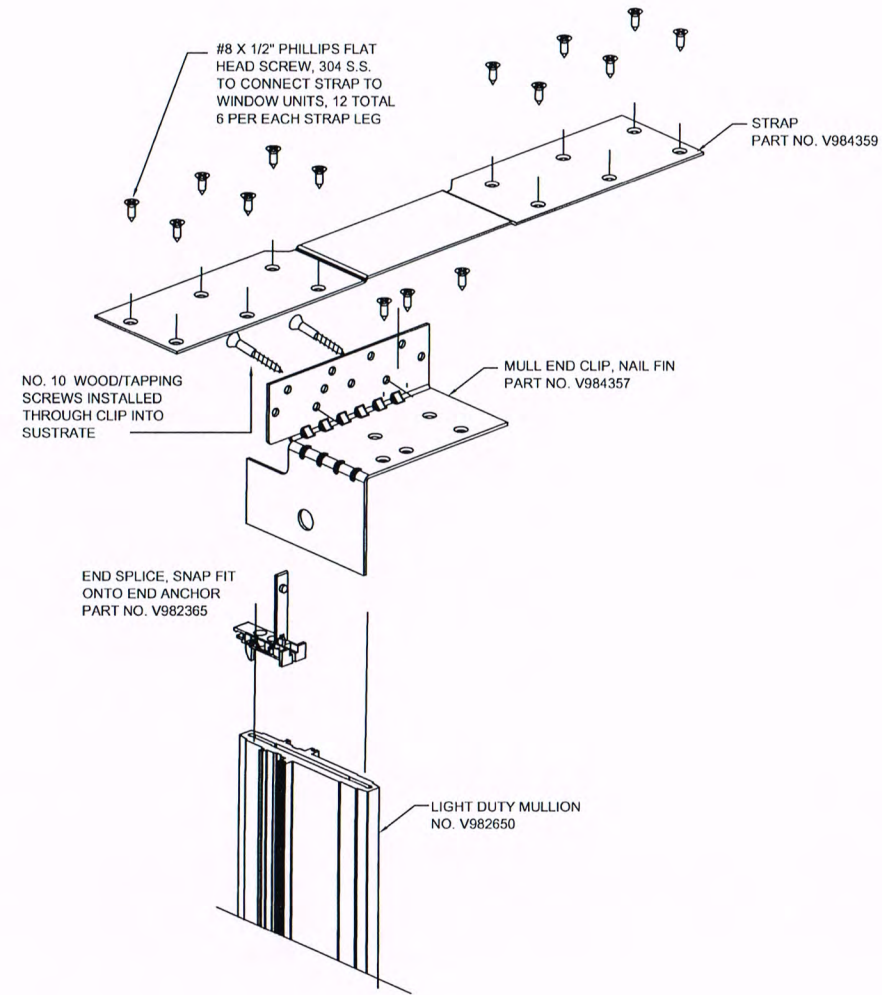
CLIP TO MULLION ATTACHMENT BLOCK FRAME



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

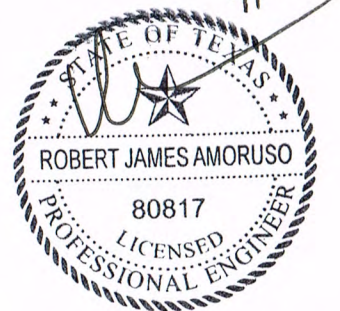
PELLA CORPORATION
102 MAIN STREET
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SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
MULLION END CLIP - ATTACHMENT ILLUSTRATIONS

PREPARED BY: RJA
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DRAWING NO.: PELL0034
SCALE: N.T.S.
SHEET: 3 OF 20
REV: ---

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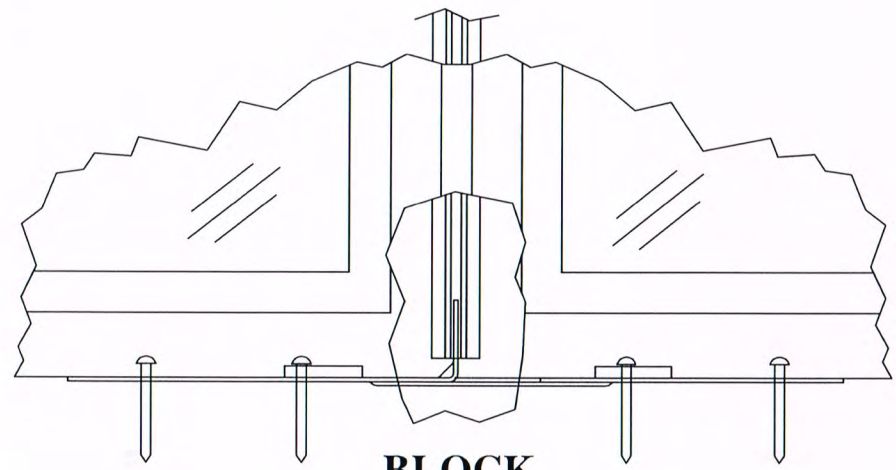
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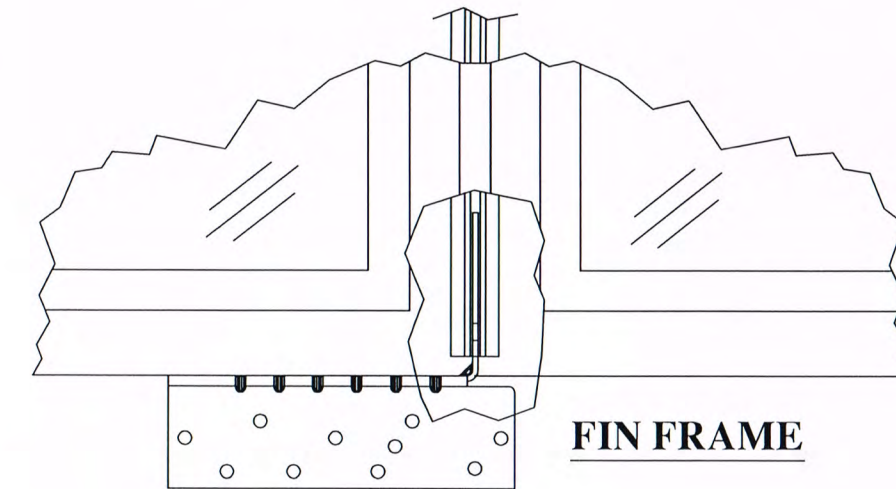
ATTACHMENT OF WINDOW FRAME TO MULLION FIN AND BLOCK FRAME

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

1/2" MULLION WITHOUT REINFORCEMENT

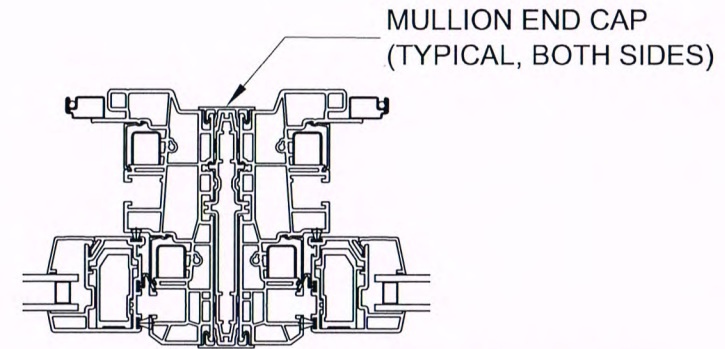


**BLOCK
FRAME**

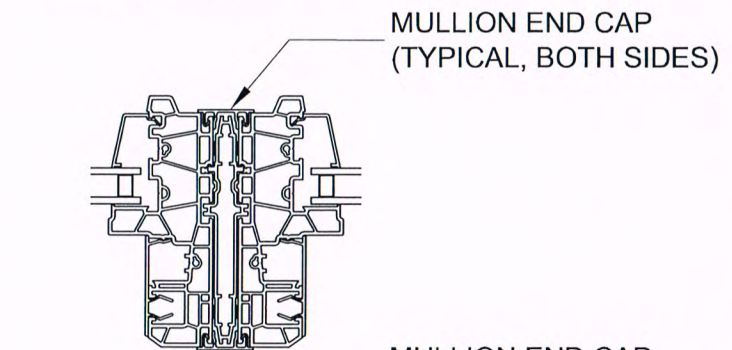


FIN FRAME

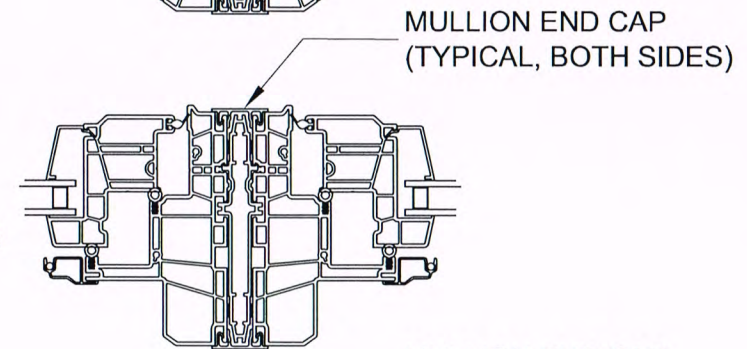
Double Hung



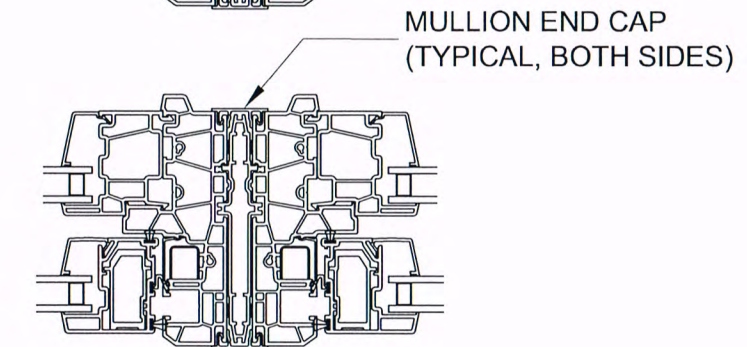
Fixed



Casement/Awning



Singe Hung



INSTALLATION NOTES

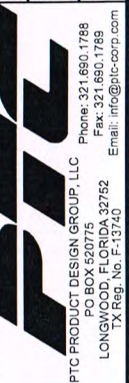
1. ATTACH MULLION CLIP TO THE WINDOW UNIT WITH THE #8 X 1/2" FLAT HEAD SCREWS AS SHOW ON SHEET 3, CLIP TO MULLION ATTACHMENT DETAILS.
2. DRILL THROUGH THE CLIP INTO THE UNIT TO ALIGN THE HOLE IN THE FRAME (ANCHOR HOLE DEFINITION ON SHEET 3, CLIP TO MULLION ATTACHMENT DETAILS).
3. INSTALL THE WINDOW UNIT 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

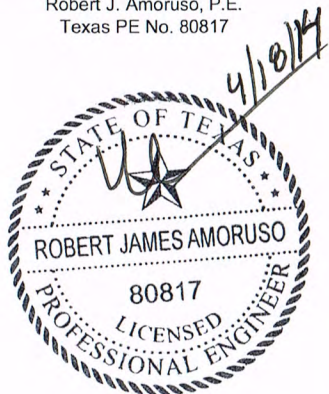
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

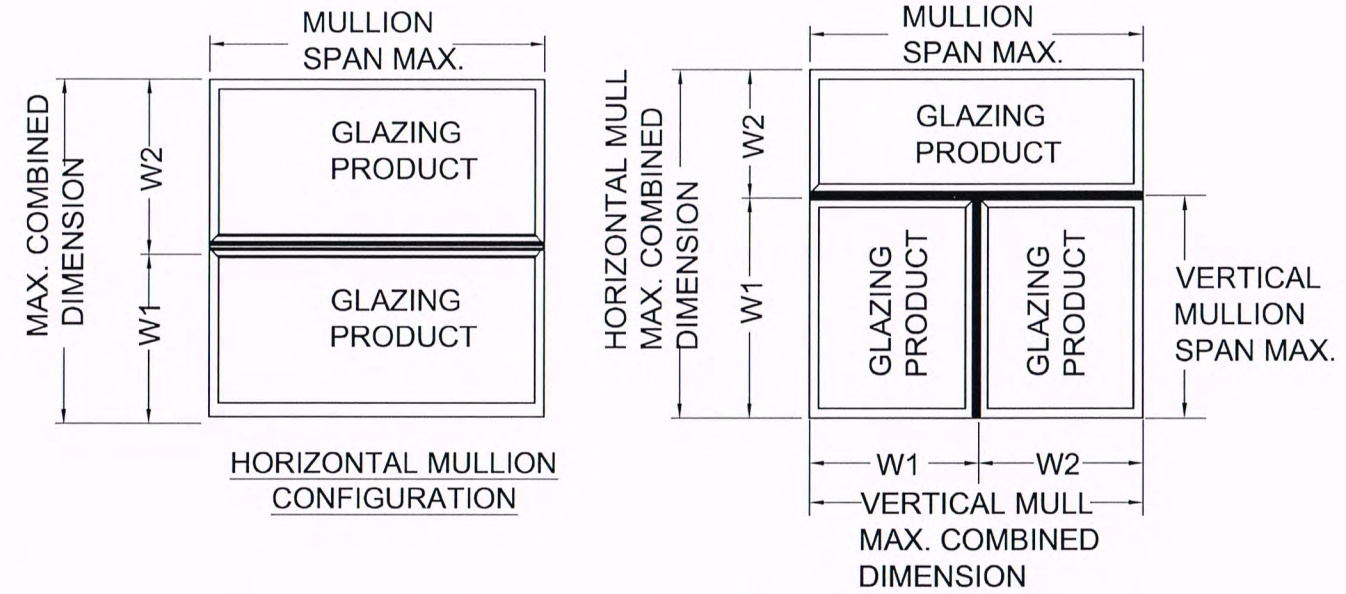
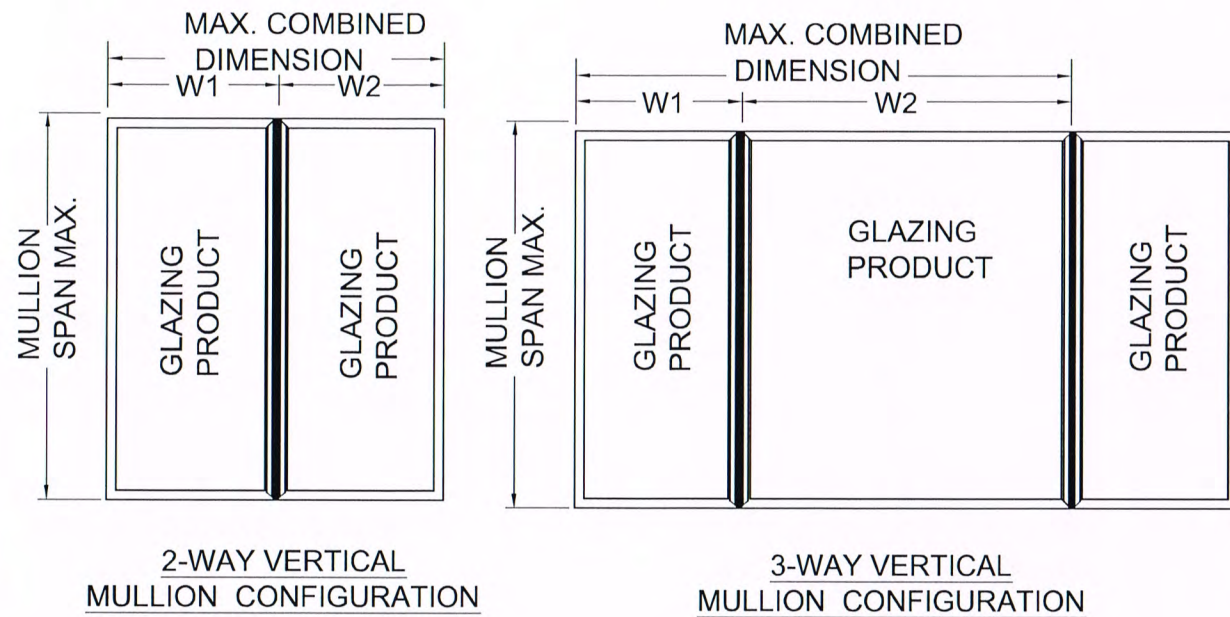
PREPARED BY: PTC
DATE: 01/28/14
DRAWN BY: RJA
SCALE: N.T.S.
DRAWING NO: PELL0034
SHEET: 4 OF 20
REV: ---



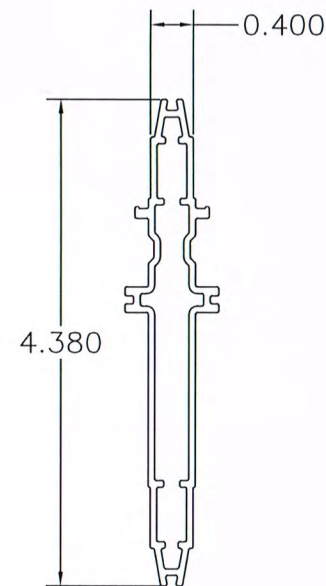
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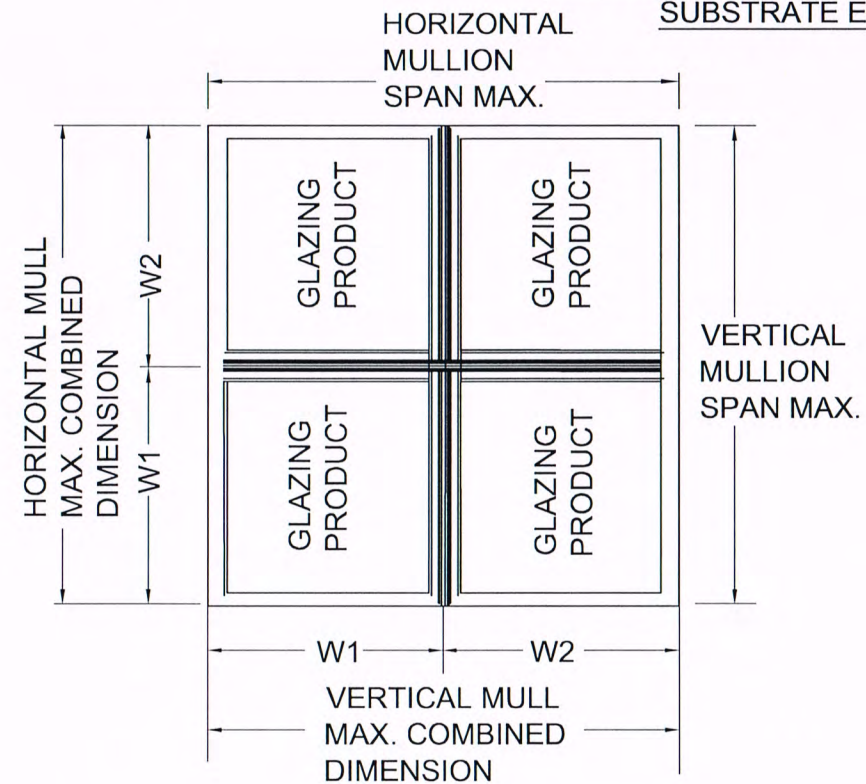
APPROVED MULLED WINDOW CONFIGURATIONS



1/2" LIGHT DUTY MULLION



V982650 MULLION W/O REINFORCEMENT
MATERIAL: 6063-T6



PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

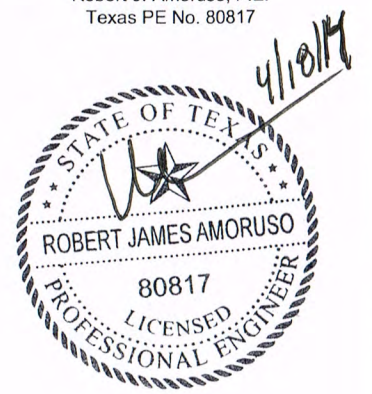
SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT APPROVED MULLED WINDOW CONFIGURATIONS AND MULLIONS

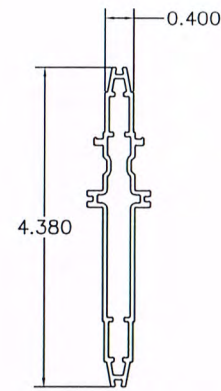


PREPARED BY: RJA
DRAWN BY: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 5 OF 20

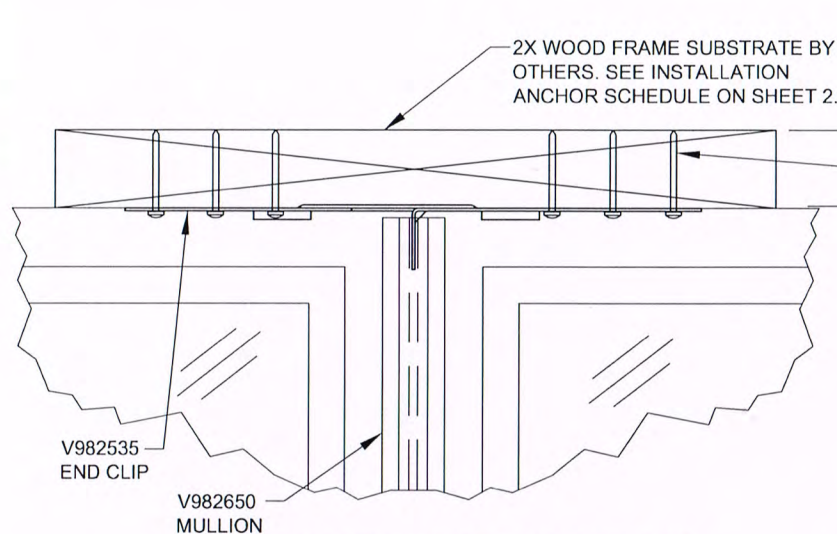
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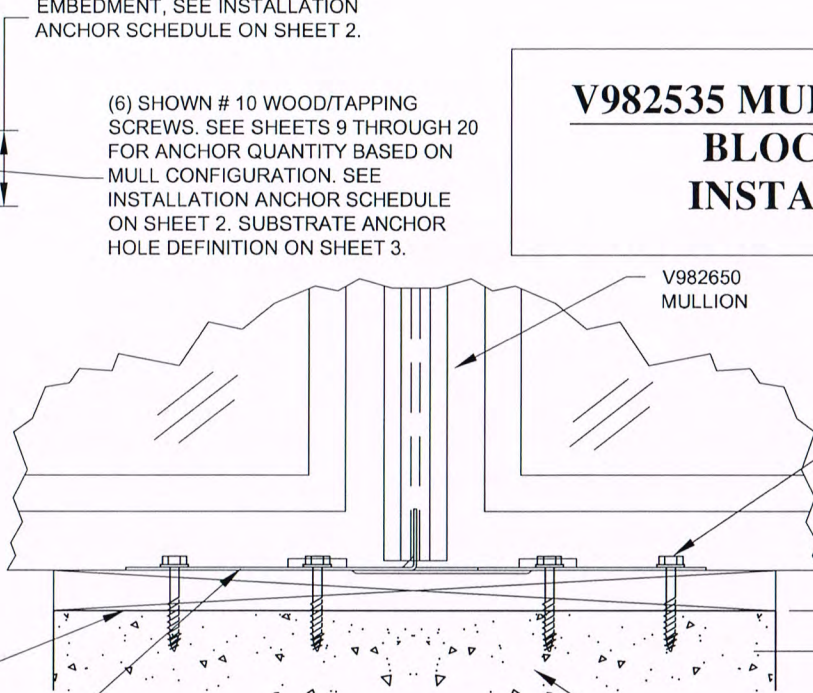




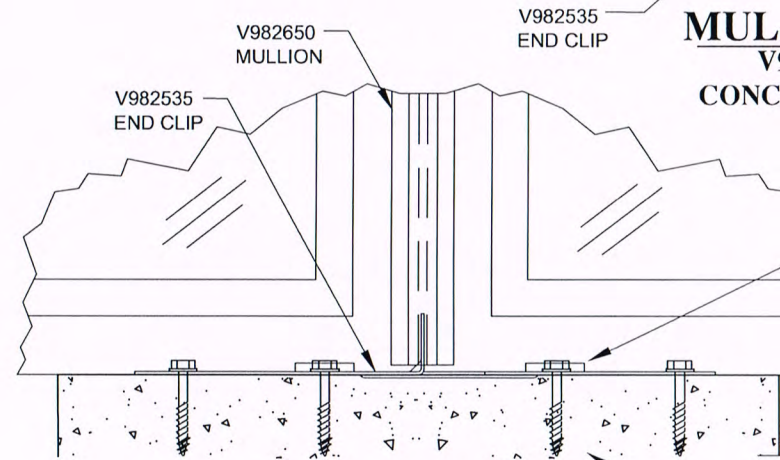
V982650 MULLION W/O REINFORCEMENT
MATERIAL: 6063-T6



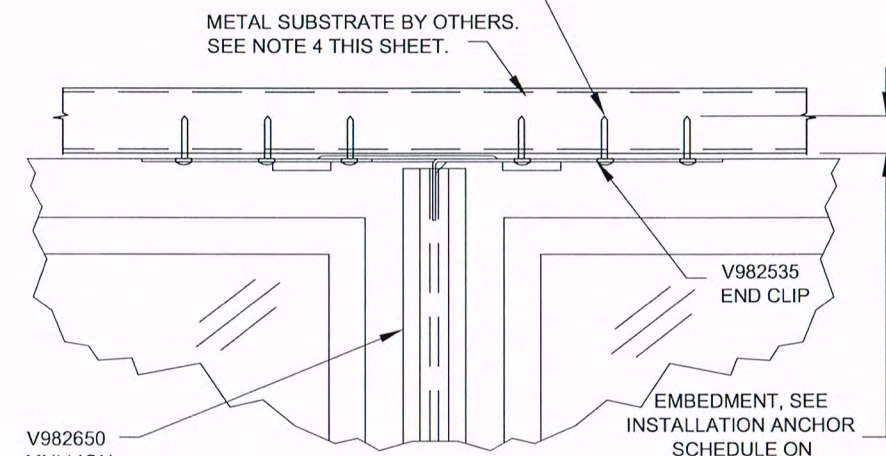
MULL CLIP ATTACHMENT
V982535 MULL CLIP SHOWN
WOOD FRAME SUBSTRATE
2 BY BUCK OR STUD
FRONT VIEW



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

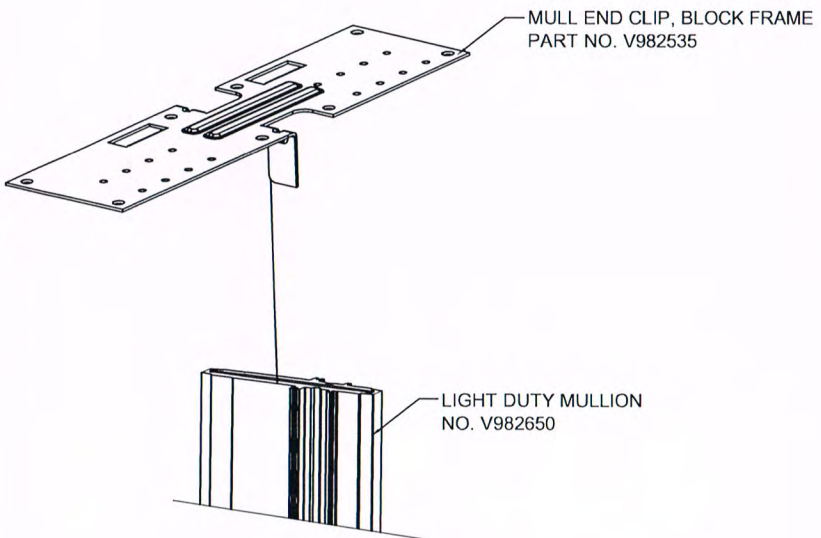


MULL CLIP ATTACHMENT
V982535 MULL CLIP SHOWN
CONCRETE / MASONRY SUBSTRATE
FRONT VIEW



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

**V982535 MULLION END CLIP
BLOCK FRAME
INSTALLATIONS**



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. 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. 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. ANCHORS SHALL BE EVENLY DISTRIBUTED TO EACH LEG CLIP. SEE DETAIL ON THIS SHEET.

EMBEDMENT, SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

(6) SHOWN # 10 WOOD/TAPPING SCREWS. SEE SHEETS 9 THROUGH 20 FOR ANCHOR QUANTITY BASED ON MULL CONFIGURATION. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2. SUBSTRATE ANCHOR HOLE DEFINITION ON SHEET 3.

(4) SHOWN 3/16" CONCRETE SCREWS. SEE SHEETS 9 THROUGH 20 FOR ANCHOR QUANTITY BASED ON MULL CONFIGURATION. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2. SUBSTRATE ANCHOR HOLE DEFINITION ON SHEET 3.

EMBEDMENT, SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 1.

CONCRETE / MASONRY SUBSTRATE BY OTHERS. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

(4) SHOWN 3/16" CONCRETE SCREWS. SEE SHEETS 9 THROUGH 20 FOR ANCHOR QUANTITY BASED ON MULL CONFIGURATION. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2. SUBSTRATE ANCHOR HOLE DEFINITION ON SHEET 3.

EMBEDMENT, SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 1.

CONCRETE / MASONRY SUBSTRATE. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

(6) SHOWN #10 SELF TAPPING INSTALLATION ANCHORS. SEE SHEETS 9 THROUGH 20 FOR ANCHOR QUANTITY BASED ON MULL CONFIGURATION. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2. SUBSTRATE ANCHOR HOLE DEFINITION ON SHEET 3.

METAL SUBSTRATE BY OTHERS. SEE NOTE 4 THIS SHEET.

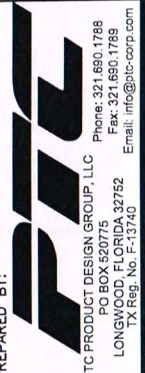
EMBEDMENT, SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.

PROJECT # 414-0106

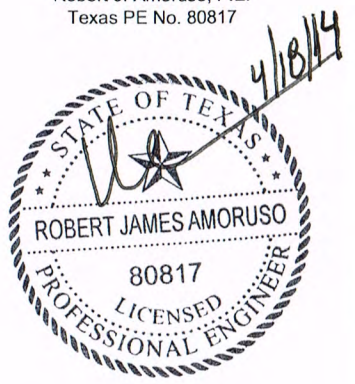
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
BLOCK FRAME INSTALLATIONS DETAILS

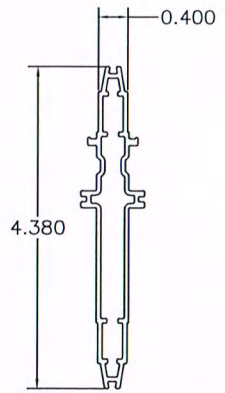
| | |
|--------------|----------|
| DATE: | 01/28/14 |
| DRAWN BY: | RJA |
| SCALE: | N.T.S. |
| DRAWING NO.: | PELL0034 |
| SHEET: | 6 OF 20 |
| REV: | --- |



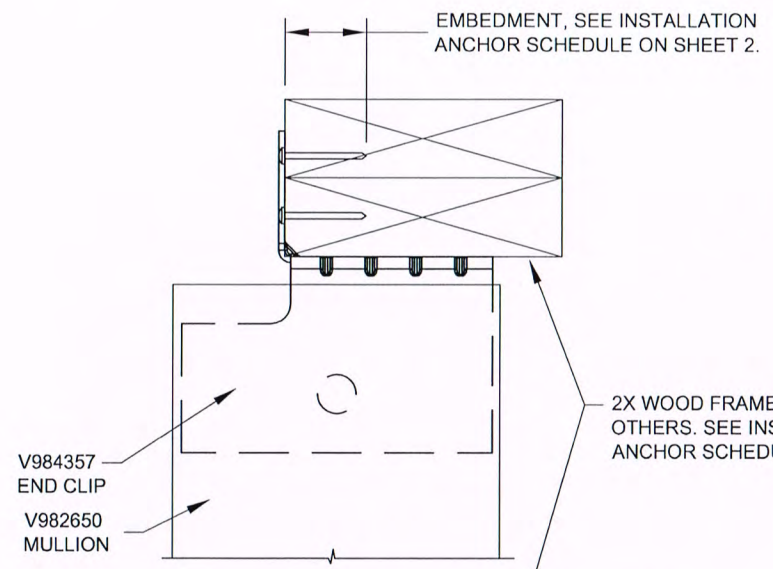
Robert J. Amoruso, P.E.
Texas PE No. 80817



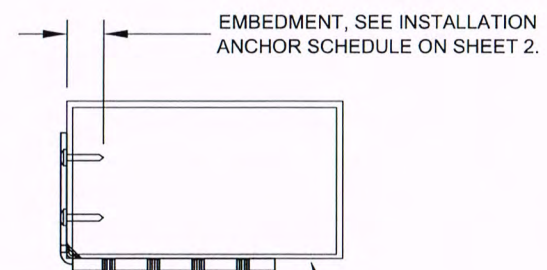
V984357 MULLION END CLIP FIN FRAME INSTALLATIONS



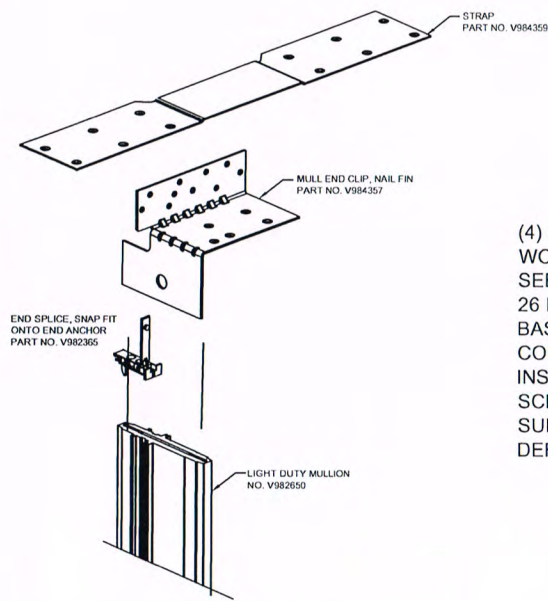
V982650 MULLION W/O REINFORCEMENT
MATERIAL: 6063-T6



V984357 END CLIP
V982650 MULLION
2X WOOD FRAME SUBSTRATE BY OTHERS. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.



V984357 END CLIP
V982650 MULLION
2X METAL SUBSTRATE BY OTHERS. SEE INSTALLATION ANCHOR SCHEDULE ON SHEET 2.



(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.

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

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

MULL CLIP ATTACHMENT V984357 ALUMINUM/STEEL SUBSTRATE FRONT VIEW

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. 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. SEE DETAIL ON THIS SHEET.

PROJECT # 414-0106

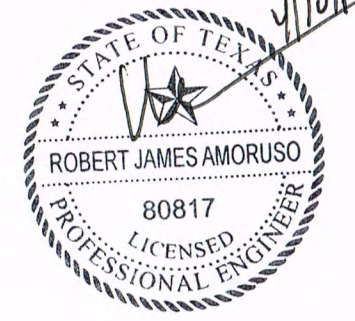
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

| | |
|-------------|----------|
| DATE: | 01/28/14 |
| DRAWN BY: | RJA |
| SCALE: | N.T.S. |
| SHEET: | PELL0034 |
| REV: | --- |
| DESCRIPTION | 7 OF 20 |



Robert J. Amoruso, P.E.
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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.

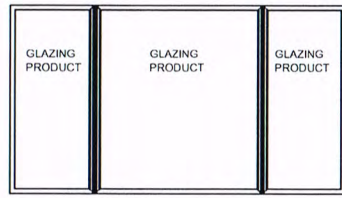
MULLION CONFIGURATIONS VS. LOAD CAPACITY TABLES ARE DELINEATED BELOW :

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



2-WAY VERTICAL
MULLION CONFIGURATION



3-WAY VERTICAL
MULLION CONFIGURATION

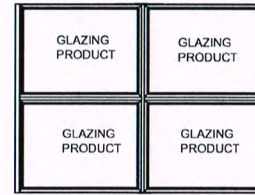
1/2" VERTICAL UNREINFORCED IN A MULLION MULTI-WIDE CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED MULLION
 - 1.1. TABLE 1 FOR ALL SUBSTRATES (SHEET 2) - SHEET 9

FIN (CLIP V982356) FRAME INSTALLATION

2. UNREINFORCED MULLION
 - 2.1. TABLE 1 FOR ALL SUBSTRATES (SHEET 2) - SHEET 15



4-WAY MULLION CONFIGURATION

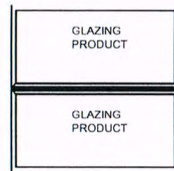
1/2" VERTICAL/HORIZONTAL UNREINFORCED MULLION IN A 4-WAY MULTI-WIDE, MULTI-HIGH CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED VERTICAL MULLION
 - 1.1. TABLE 4.1 FOR ALL SUBSTRATES (SHEET 2) - SHEET 13
2. UNREINFORCED HORIZONTAL MULLION
 - 2.1. TABLE 4.2 FOR ALL SUBSTRATES (SHEET 2) - SHEET 14

FIN (CLIP V982356) FRAME INSTALLATION

3. UNREINFORCED VERTICAL MULLION
 - 3.1. TABLE 4.1 UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 19
4. UNREINFORCED HORIZONTAL MULLION
 - 4.1. TABLE 4.2 UNREINFORCED MULLION FOR ALL SUBSTRATES (SHEET 2) - SHEET 20



HORIZONTAL MULLION
CONFIGURATION

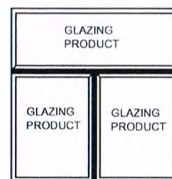
1/2" HORIZONTAL UNREINFORCED MULLION IN A MULTI-HIGH CONFIGURATION

BLOCK (CLIP V982535) FRAME INSTALLATION

1. UNREINFORCED MULLION
 - 1.1. TABLE 2 FOR ALL SUBSTRATES (SHEET 2) - SHEET 10

FIN (CLIP V982356) FRAME INSTALLATION

2. UNREINFORCED MULLION
 - 2.1. TABLE 2 FOR ALL SUBSTRATES (SHEET 2) - SHEET 16



3-WAY MULLION
CONFIGURATION

1/2" VERTICAL / HORIZONTAL UNREINFORCED 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. UNREINFORCED HORIZONTAL MULLION
 - 2.1. TABLE 3.2 FOR ALL SUBSTRATES (SHEET 2) - SHEET 12

FIN (CLIP V982356) FRAME INSTALLATION

3. UNREINFORCED VERTICAL MULLION
 - 3.1. TABLE 3.1 FOR ALL SUBSTRATES (SHEET 2) - SHEET 17
4. UNREINFORCED HORIZONTAL MULLION
 - 4.1. TABLE 3.2 FOR ALL SUBSTRATES (SHEET 2) - SHEET 18

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" LIGHT DUTY MULLION - IMPACT
MULLION CAPACITY LOAD TABLES - INSTRUCTIONS

PREPARED BY: DATE: 01/28/14

DRAWN BY: RJA

SCALE: N.T.S.

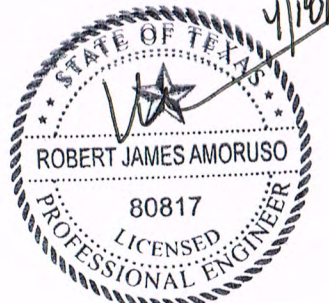
REV: ---

DRAWING NO: PELL0034

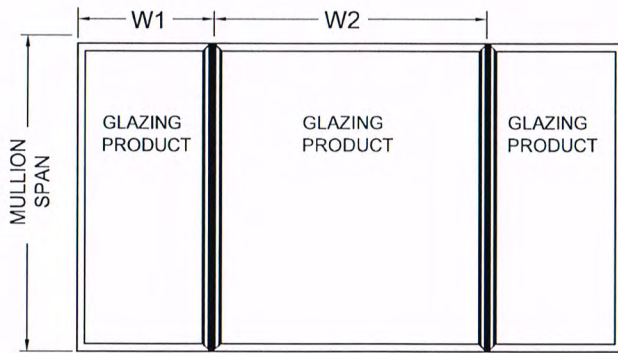
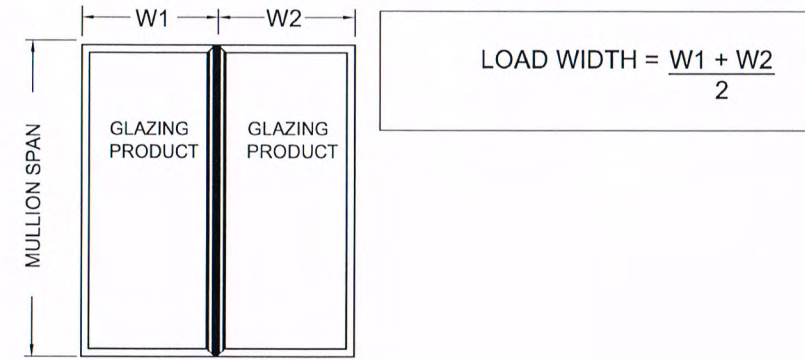
SHEET: 8 OF 20

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1/2" VERTICAL UNREINFORCED MULLION MULTI-WIDE CONFIGURATION



| ANCHOR QUANTITIES (PER CLIP END) | | |
|--|-----------------------|---------------|
| SUBSTRATE | ANCHOR | MIN. QUANTITY |
| CONCRETE | CONCRETE SCREW | 2 |
| MASONRY (CMU) | 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.

BLOCK FRAME (CLIP V982535) INSTALLATION

| MULLION TABLE 1 (VERTICAL SPAN — 1/2" Light Duty Aluminum Mull) Vertical mull in side-by-side assembly unlimited width. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 24 | 24 | 75.0 | 60 | 24 | 75.0 | 96 | 24 | 31.9 |
| | 30 | 75.0 | | 30 | 25.9 | | | |
| | 36 | 75.0 | | 36 | 22.0 | | | |
| | 42 | 75.0 | | 42 | 19.2 | | | |
| | 48 | 75.0 | | 48 | 17.2 | | | |
| | 54 | 75.0 | | 54 | 15.8 | | | |
| | 60 | 75.0 | | 60 | 14.7 | | | |
| | 66 | 75.0 | | 66 | 13.8 | | | |
| 72 | 75.0 | 72 | 13.2 | | | | | |
| 30 | 24 | 75.0 | 66 | 24 | 75.0 | 102 | 24 | 26.5 |
| | 30 | 75.0 | | 30 | 21.5 | | | |
| | 36 | 75.0 | | 36 | 18.2 | | | |
| | 42 | 75.0 | | 42 | 15.9 | | | |
| | 48 | 75.0 | | 48 | 14.2 | | | |
| | 54 | 75.0 | | 54 | 12.9 | | | |
| | 60 | 75.0 | | 60 | 12.0 | | | |
| | 66 | 75.0 | | 66 | 11.2 | | | |
| 72 | 75.0 | 72 | 10.7 | | | | | |
| 36 | 24 | 75.0 | 72 | 24 | 66.5 | 108 | 24 | 22.3 |
| | 30 | 75.0 | | 30 | 18.0 | | | |
| | 36 | 75.0 | | 36 | 15.2 | | | |
| | 42 | 75.0 | | 42 | 13.3 | | | |
| | 48 | 75.0 | | 48 | 11.8 | | | |
| | 54 | 75.0 | | 54 | 10.8 | | | |
| | 60 | 75.0 | | 60 | 9.9 | | | |
| | 66 | 75.0 | | 66 | 9.3 | | | |
| 72 | 75.0 | 72 | 8.8 | | | | | |
| 42 | 24 | 75.0 | 78 | 24 | 56.3 | 114 | 24 | 18.9 |
| | 30 | 75.0 | | 30 | 15.3 | | | |
| | 36 | 75.0 | | 36 | 12.9 | | | |
| | 42 | 75.0 | | 42 | 11.2 | | | |
| | 48 | 75.0 | | 48 | 10.0 | | | |
| | 54 | 75.0 | | 54 | 9.1 | | | |
| | 60 | 75.0 | | 60 | 8.3 | | | |
| | 66 | 75.0 | | 66 | 7.8 | | | |
| 72 | 75.0 | 72 | 7.3 | | | | | |
| 48 | 24 | 75.0 | 84 | 24 | 48.0 | 120 | 24 | 16.2 |
| | 30 | 75.0 | | 30 | 13.1 | | | |
| | 36 | 75.0 | | 36 | 11.0 | | | |
| | 42 | 75.0 | | 42 | 9.6 | | | |
| | 48 | 75.0 | | 48 | 8.5 | | | |
| | 54 | 75.0 | | 54 | 7.7 | | | |
| | 60 | 75.0 | | 60 | 7.1 | | | |
| | 66 | 75.0 | | 66 | 6.6 | | | |
| 72 | 75.0 | 72 | 6.2 | | | | | |
| 54 | 24 | 75.0 | 90 | 24 | 38.9 | | 24 | |
| | 30 | 75.0 | | 30 | 31.6 | | | |
| | 36 | 75.0 | | 36 | 26.9 | | | |
| | 42 | 75.0 | | 42 | 23.6 | | | |
| | 48 | 75.0 | | 48 | 21.2 | | | |
| | 54 | 75.0 | | 54 | 19.5 | | | |
| | 60 | 75.0 | | 60 | 18.2 | | | |
| | 66 | 75.0 | | 66 | 17.2 | | | |
| 72 | 75.0 | 72 | 16.6 | | | | | |

PROJECT # 414-0106

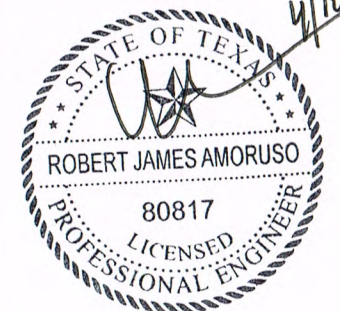
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

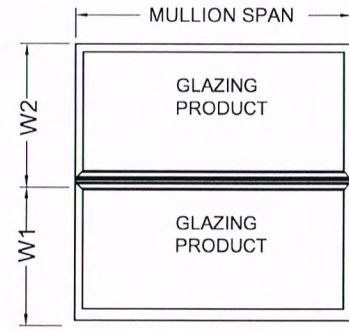
PREPARED BY: DATE: 01/28/14
DRAWN BY: RJA DRAWING NO: PELL0034
SCALE: N.T.S. SHEET: 9 OF 20
REV: ---

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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 | 2 |
| MASONRY (CMU) | 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.

BLOCK FRAME (CLIP V982535) INSTALLATION

| MULLION TABLE 2 (HORIZONTAL SPAN — 1/2" Light Duty Aluminum Mull) Horizontal mull in transom-over-single assembly. | | | | | | | | |
|--|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 48 | 24 | 75.0 | 72 | 24 | 66.5 | 96 | 24 | 31.9 |
| | 30 | 75.0 | | 30 | 54.4 | | 30 | 25.9 |
| | 36 | 75.0 | | 36 | 46.6 | | 36 | 22.0 |
| | 42 | 75.0 | | 42 | 41.3 | | 42 | 19.2 |
| | 48 | 75.0 | | 48 | 37.6 | | 48 | 17.2 |
| | 54 | 75.0 | | 54 | 35.0 | | 54 | 15.8 |
| | 60 | 75.0 | | 60 | 33.3 | | 60 | 14.7 |
| | 66 | 75.0 | | 66 | 32.3 | | 66 | 13.8 |
| 54 | 24 | 75.0 | 78 | 24 | 56.3 | 102 | 24 | 26.5 |
| | 30 | 75.0 | | 30 | 45.9 | | 30 | 21.5 |
| | 36 | 75.0 | | 36 | 39.2 | | 36 | 18.2 |
| | 42 | 75.0 | | 42 | 34.5 | | 42 | 15.9 |
| | 48 | 75.0 | | 48 | 31.2 | | 48 | 14.2 |
| | 54 | 75.0 | | 54 | 28.9 | | 54 | 12.9 |
| | 60 | 75.0 | | 60 | 27.2 | | 60 | 12.0 |
| | 66 | 75.0 | | 66 | 26.1 | | 66 | 11.2 |
| 60 | 24 | 75.0 | 84 | 24 | 48.0 | 108 | 24 | 22.3 |
| | 30 | 75.0 | | 30 | 39.1 | | 30 | 18.0 |
| | 36 | 69.8 | | 36 | 33.4 | | 36 | 15.2 |
| | 42 | 63.0 | | 42 | 29.3 | | 42 | 13.3 |
| | 48 | 58.6 | | 48 | 26.4 | | 48 | 11.8 |
| | 54 | 56.1 | | 54 | 24.2 | | 54 | 10.8 |
| | 60 | 55.3 | | 60 | 22.7 | | 60 | 9.9 |
| | 66 | 55.3 | | 66 | 21.5 | | 66 | 9.3 |
| 66 | 24 | 75.0 | 90 | 24 | 38.9 | 114 | 24 | 18.9 |
| | 30 | 65.5 | | 30 | 31.6 | | 30 | 15.3 |
| | 36 | 56.4 | | 36 | 26.9 | | 36 | 12.9 |
| | 42 | 50.3 | | 42 | 23.6 | | 42 | 11.2 |
| | 48 | 46.3 | | 48 | 21.2 | | 48 | 10.0 |
| | 54 | 43.6 | | 54 | 19.5 | | 54 | 9.1 |
| | 60 | 42.1 | | 60 | 18.2 | | 60 | 8.3 |
| | 66 | 41.6 | | 66 | 17.2 | | 66 | 7.8 |
| | | | | | | 120 | 24 | 16.2 |
| | | | | | | | 30 | 13.1 |
| | | | | | | | 36 | 11.0 |
| | | | | | | | 42 | 9.6 |
| | | | | | | | 48 | 8.5 |
| | | | | | | | 54 | 7.7 |
| | | | | | | 60 | 7.1 | |
| | | | | | | 66 | 6.6 | |

PROJECT # 414-0106

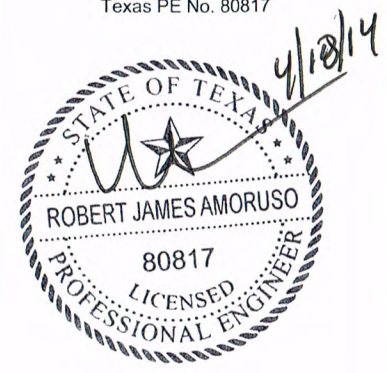
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
BLOCK - UNREINFORCED MULL - TABLE 2

PREPARED BY: ---
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 10 OF 20
REV: ---

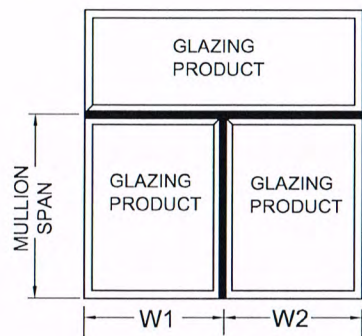


Robert J. Amoruso, P.E.
Texas PE No. 80817



1/2" VERTICAL UNREINFORCED MULLION IN A TRANSOM OVER A 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 | 2 |
| MASONRY (CMU) | 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.

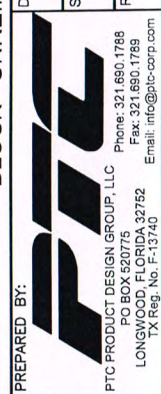
| MULLION TABLE 3.1 (VERTICAL 3-WAY SPAN — 1/2" Light Duty Aluminum Mull) Vertical mull in 3-way transom/side-by-side assembly. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 24 | 24 | 75.0 | 48 | 24 | 75.0 | 72 | 24 | 66.5 |
| | 30 | 75.0 | | 30 | 75.0 | | 30 | 54.4 |
| | 36 | 75.0 | | 36 | 75.0 | | 36 | 46.6 |
| | 42 | 75.0 | | 42 | 75.0 | | 42 | 41.3 |
| | 48 | 75.0 | | 48 | 75.0 | | 48 | 37.6 |
| | 54 | 75.0 | | 54 | 75.0 | | 54 | 35.0 |
| | 60 | 75.0 | | 60 | 75.0 | | 60 | 33.3 |
| 30 | 24 | 75.0 | 54 | 24 | 75.0 | 78 | 24 | 56.3 |
| | 30 | 75.0 | | 30 | 75.0 | | 30 | 45.9 |
| | 36 | 75.0 | | 36 | 75.0 | | 36 | 39.2 |
| | 42 | 75.0 | | 42 | 75.0 | | 42 | 34.5 |
| | 48 | 75.0 | | 48 | 75.0 | | 48 | 31.2 |
| | 54 | 75.0 | | 54 | 75.0 | | 54 | 28.9 |
| | 60 | 75.0 | | 60 | 75.0 | | 60 | 27.2 |
| 36 | 24 | 75.0 | 60 | 24 | 75.0 | 84 | 24 | 48.0 |
| | 30 | 75.0 | | 30 | 75.0 | | 30 | 39.1 |
| | 36 | 75.0 | | 36 | 69.8 | | 36 | 33.4 |
| | 42 | 75.0 | | 42 | 63.0 | | 42 | 29.3 |
| | 48 | 75.0 | | 48 | 58.6 | | 48 | 26.4 |
| | 54 | 75.0 | | 54 | 56.1 | | 54 | 24.2 |
| | 60 | 75.0 | | 60 | 55.3 | | 60 | 22.7 |
| 42 | 24 | 75.0 | 66 | 24 | 75.0 | 90 | 24 | 38.9 |
| | 30 | 75.0 | | 30 | 65.5 | | 30 | 31.6 |
| | 36 | 75.0 | | 36 | 56.4 | | 36 | 26.9 |
| | 42 | 75.0 | | 42 | 50.3 | | 42 | 23.6 |
| | 48 | 75.0 | | 48 | 46.3 | | 48 | 21.2 |
| | 54 | 75.0 | | 54 | 43.6 | | 54 | 19.5 |
| | 60 | 75.0 | | 60 | 42.1 | | 60 | 18.2 |
| 48 | 24 | 75.0 | 72 | 24 | 75.0 | 96 | 24 | 31.9 |
| | 30 | 75.0 | | 30 | 65.5 | | 30 | 25.9 |
| | 36 | 75.0 | | 36 | 56.4 | | 36 | 22.0 |
| | 42 | 75.0 | | 42 | 50.3 | | 42 | 19.2 |
| | 48 | 75.0 | | 48 | 46.3 | | 48 | 17.2 |
| | 54 | 75.0 | | 54 | 43.6 | | 54 | 15.8 |
| | 60 | 75.0 | | 60 | 42.1 | | 60 | 14.7 |
| 54 | 24 | 75.0 | 84 | 24 | 75.0 | 108 | 24 | 25.9 |
| | 30 | 75.0 | | 30 | 65.5 | | 30 | 22.0 |
| | 36 | 75.0 | | 36 | 56.4 | | 36 | 19.2 |
| | 42 | 75.0 | | 42 | 50.3 | | 42 | 17.2 |
| | 48 | 75.0 | | 48 | 46.3 | | 48 | 15.8 |
| | 54 | 75.0 | | 54 | 43.6 | | 54 | 14.7 |
| | 60 | 75.0 | | 60 | 42.1 | | 60 | 13.8 |

PROJECT # 414-0106

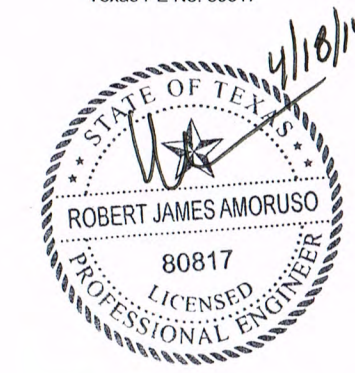
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
BLOCK - UNREINF. MULL - TABLE 3.1

PREPARED BY: RJA
DATE: 01/28/14
DRAWING NO: PELL0034
SCALE: N.T.S.
SHEET: 11 OF 20
REV: ---

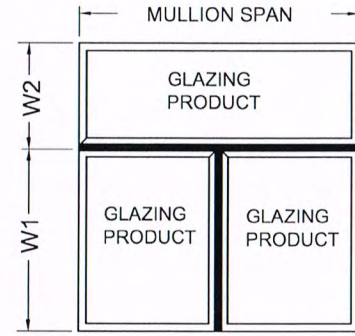


Robert J. Amoruso, P.E.
Texas PE No. 80817



1/2" HORIZONTAL UNREINFORCED MULLION IN A TRANSOM OVER A 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 | 3 |
| MASONRY (CMU) | 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.

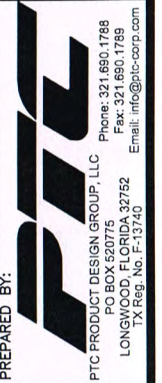
| MULLION TABLE 3.2 (HORIZONTAL 3-WAY SPAN — 1/2" LIGHT DUTY ALUMINUM MULLION) Horizontal mull in 3-way transom/side-by-side assembly. | | | | | | | | |
|--|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 48 | 24 | 75.0 | 78 | 24 | 49.7 | 108 | 24 | 22.7 |
| | 30 | 75.0 | | 30 | 46.6 | | 30 | 18.6 |
| | 36 | 75.0 | | 36 | 41.1 | | 36 | 15.9 |
| | 42 | 75.0 | | 42 | 36.0 | | 42 | 14.0 |
| | 48 | 75.0 | | 48 | 32.2 | | 48 | 12.5 |
| | 54 | 75.0 | | 54 | 29.3 | | 54 | 11.4 |
| | 60 | 75.0 | | 60 | 27.0 | | 60 | 10.6 |
| | 66 | 75.0 | | 66 | 25.2 | | 66 | 9.8 |
| 54 | 72 | 72.0 | 84 | 72 | 23.6 | 114 | 72 | 9.2 |
| | 24 | 75.0 | | 24 | 43.7 | | 24 | 19.2 |
| | 30 | 75.0 | | 30 | 41.0 | | 30 | 15.7 |
| | 36 | 75.0 | | 36 | 35.1 | | 36 | 13.4 |
| | 42 | 75.0 | | 42 | 30.7 | | 42 | 11.8 |
| | 48 | 73.2 | | 48 | 27.4 | | 48 | 10.5 |
| | 54 | 67.5 | | 54 | 24.9 | | 54 | 9.6 |
| | 60 | 62.8 | | 60 | 22.9 | | 60 | 8.9 |
| 60 | 66 | 58.7 | 90 | 66 | 21.3 | 120 | 66 | 8.2 |
| | 72 | 55.2 | | 72 | 20.0 | | 72 | 7.7 |
| | 24 | 75.0 | | 24 | 38.8 | | 24 | 16.4 |
| | 30 | 75.0 | | 30 | 33.0 | | 30 | 13.4 |
| | 36 | 72.3 | | 36 | 28.3 | | 36 | 11.4 |
| | 42 | 63.9 | | 42 | 25.0 | | 42 | 10.0 |
| | 48 | 57.6 | | 48 | 22.6 | | 48 | 9.0 |
| | 54 | 52.9 | | 54 | 20.7 | | 54 | 8.1 |
| 66 | 60 | 49.2 | 96 | 60 | 19.1 | 120 | 60 | 7.5 |
| | 66 | 46.1 | | 66 | 17.9 | | 66 | 7.0 |
| | 72 | 43.4 | | 72 | 16.9 | | 72 | 6.5 |
| | 24 | 66.2 | | 24 | 32.8 | | 24 | 16.4 |
| | 30 | 62.0 | | 30 | 26.9 | | 30 | 13.4 |
| | 36 | 58.8 | | 36 | 23.1 | | 36 | 11.4 |
| | 42 | 51.8 | | 42 | 20.3 | | 42 | 10.0 |
| | 48 | 46.6 | | 48 | 18.3 | | 48 | 9.0 |
| 72 | 54 | 42.6 | 102 | 54 | 16.7 | 120 | 54 | 8.1 |
| | 60 | 39.4 | | 60 | 15.5 | | 60 | 7.5 |
| | 66 | 36.9 | | 66 | 14.5 | | 66 | 7.0 |
| | 72 | 34.8 | | 72 | 13.6 | | 72 | 6.5 |
| | 24 | 57.0 | | 24 | 27.2 | | 24 | 16.4 |
| | 30 | 53.4 | | 30 | 22.3 | | 30 | 13.4 |
| | 36 | 48.8 | | 36 | 19.0 | | 36 | 11.4 |
| | 42 | 42.8 | | 42 | 16.8 | | 42 | 10.0 |

PROJECT # 414-0106

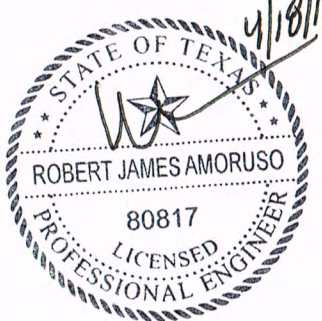
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY 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.: PELL0034
SHEET: 12 OF 20

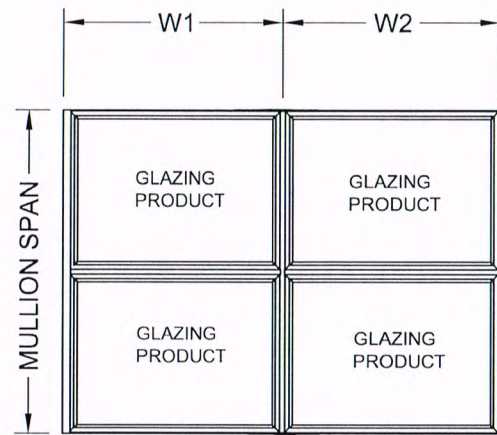


Robert J. Amoruso, P.E.
Texas PE No. 80817



1/2" VERTICAL 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 | 2 |
| MASONRY (CMU) | 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 4.1 (VERTICAL 4-WAY SPAN — 1/2" Light Duty Aluminum Mull) Vertical mull in 4-way transom/side-by-side assembly. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 36 | 24 | 75.0 | 66 | 24 | 75.0 | 96 | 24 | 32.8 |
| | 30 | 75.0 | | 30 | 61.0 | | 30 | 26.6 |
| | 36 | 75.0 | | 36 | 50.8 | | 36 | 22.4 |
| | 42 | 75.0 | | 42 | 43.5 | | 42 | 19.5 |
| | 48 | 75.0 | | 48 | 38.1 | | 48 | 17.3 |
| | 54 | 75.0 | | 54 | 33.9 | | 54 | 15.6 |
| | 60 | 75.0 | | 60 | 30.5 | | 60 | 14.2 |
| | 66 | 75.0 | | 66 | 27.7 | | 66 | 13.0 |
| 42 | 72 | 68.4 | 72 | 72 | 25.4 | 102 | 72 | 12.0 |
| | 24 | 75.0 | | 24 | 64.0 | | 24 | 27.2 |
| | 30 | 75.0 | | 30 | 51.2 | | 30 | 22.1 |
| | 36 | 75.0 | | 36 | 42.7 | | 36 | 18.6 |
| | 42 | 75.0 | | 42 | 36.6 | | 42 | 16.2 |
| | 48 | 75.0 | | 48 | 32.0 | | 48 | 14.3 |
| | 54 | 75.0 | | 54 | 28.5 | | 54 | 12.9 |
| | 60 | 75.0 | | 60 | 25.6 | | 60 | 11.7 |
| 48 | 66 | 68.4 | 78 | 66 | 23.3 | 108 | 66 | 10.8 |
| | 72 | 52.4 | | 72 | 21.3 | | 72 | 9.9 |
| | 24 | 75.0 | | 24 | 54.6 | | 24 | 22.9 |
| | 30 | 75.0 | | 30 | 43.6 | | 30 | 18.5 |
| | 36 | 75.0 | | 36 | 36.4 | | 36 | 15.6 |
| | 42 | 75.0 | | 42 | 31.2 | | 42 | 13.5 |
| | 48 | 72.0 | | 48 | 27.3 | | 48 | 12.0 |
| | 54 | 64.0 | | 54 | 24.2 | | 54 | 10.8 |
| 54 | 60 | 57.6 | 84 | 60 | 21.8 | 114 | 60 | 9.8 |
| | 66 | 52.4 | | 66 | 19.8 | | 66 | 9.0 |
| | 72 | 48.0 | | 72 | 18.2 | | 72 | 8.3 |
| | 24 | 75.0 | | 24 | 47.0 | | 24 | 19.4 |
| | 30 | 75.0 | | 30 | 37.6 | | 30 | 15.7 |
| | 36 | 75.0 | | 36 | 31.4 | | 36 | 13.2 |
| | 42 | 65.0 | | 42 | 26.9 | | 42 | 11.5 |
| | 48 | 56.9 | | 48 | 23.5 | | 48 | 10.1 |
| 60 | 54 | 50.6 | 90 | 54 | 20.9 | 120 | 54 | 9.1 |
| | 60 | 45.5 | | 60 | 18.8 | | 60 | 8.3 |
| | 66 | 41.4 | | 66 | 17.1 | | 66 | 7.6 |
| | 72 | 37.9 | | 72 | 15.7 | | 72 | 7.0 |
| | 24 | 75.0 | | 24 | 39.9 | | 24 | 16.6 |
| | 30 | 73.8 | | 30 | 32.4 | | 30 | 13.4 |
| | 36 | 61.5 | | 36 | 27.3 | | 36 | 11.3 |
| | 42 | 52.7 | | 42 | 23.4 | | 42 | 9.8 |
| 66 | 48 | 46.1 | 96 | 48 | 20.5 | 126 | 48 | 8.7 |
| | 54 | 41.0 | | 54 | 18.2 | | 54 | 7.8 |
| | 60 | 36.9 | | 60 | 16.4 | | 60 | 7.1 |
| | 66 | 33.5 | | 66 | 14.9 | | 66 | 6.5 |
| | 72 | 30.7 | | 72 | 13.7 | | 72 | 6.0 |

PROJECT # 414-0106

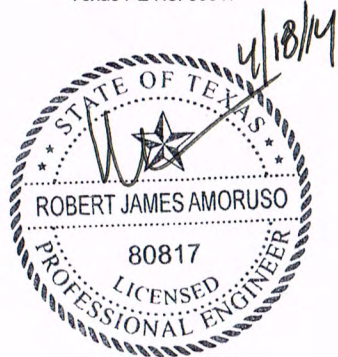
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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



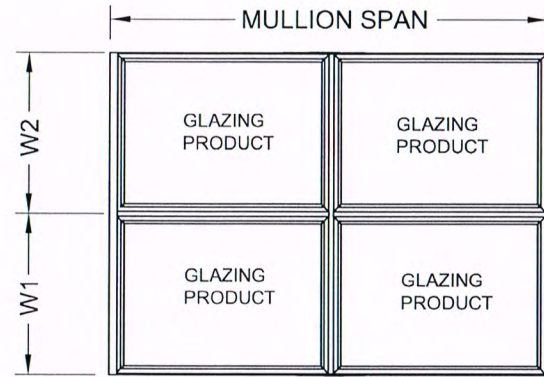
PREPARED BY: ---
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 13 OF 20

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 | 2 |
| MASONRY (CMU) | 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.

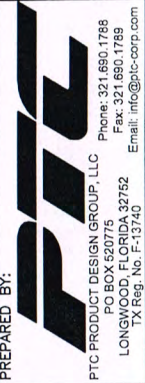
| MULLION TABLE 4.2 (HORIZONTAL 4-WAY SPAN — 1/2" Light Duty Aluminum Mull) Horizontal mull in 4-way transom/side-by-side assembly. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 36 | 24 | 75.0 | 66 | 24 | 75.0 | 96 | 24 | 31.5 |
| | 30 | 75.0 | | 30 | 61.2 | | 30 | 27.4 |
| | 36 | 75.0 | | 36 | 51.0 | | 36 | 23.5 |
| | 42 | 75.0 | | 42 | 44.6 | | 42 | 20.0 |
| | 48 | 75.0 | | 48 | 40.1 | | 48 | 17.3 |
| | 54 | 75.0 | | 54 | 36.6 | | 54 | 15.1 |
| 42 | 60 | 75.0 | 72 | 60 | 33.9 | 102 | 60 | 13.4 |
| | 24 | 75.0 | | 24 | 67.8 | | 24 | 25.5 |
| | 30 | 75.0 | | 30 | 51.9 | | 30 | 22.5 |
| | 36 | 75.0 | | 36 | 42.7 | | 36 | 19.5 |
| | 42 | 75.0 | | 42 | 37.0 | | 42 | 16.8 |
| | 48 | 75.0 | | 48 | 33.0 | | 48 | 14.5 |
| 48 | 54 | 75.0 | 78 | 54 | 30.1 | 108 | 54 | 12.7 |
| | 60 | 75.0 | | 60 | 27.8 | | 60 | 11.3 |
| | 24 | 75.0 | | 24 | 58.9 | | 24 | 20.8 |
| | 30 | 75.0 | | 30 | 44.8 | | 30 | 18.6 |
| | 36 | 75.0 | | 36 | 36.5 | | 36 | 16.3 |
| | 42 | 75.0 | | 42 | 31.3 | | 42 | 14.1 |
| 54 | 48 | 75.0 | 84 | 48 | 27.8 | 114 | 48 | 12.3 |
| | 54 | 75.0 | | 54 | 25.2 | | 54 | 10.8 |
| | 60 | 70.3 | | 60 | 23.2 | | 60 | 9.6 |
| | 24 | 75.0 | | 24 | 49.8 | | 24 | 17.1 |
| | 30 | 75.0 | | 30 | 39.2 | | 30 | 15.4 |
| | 36 | 75.0 | | 36 | 31.7 | | 36 | 13.7 |
| 60 | 42 | 69.5 | 90 | 42 | 26.9 | 120 | 42 | 12.0 |
| | 48 | 62.9 | | 48 | 23.7 | | 48 | 10.5 |
| | 54 | 57.8 | | 54 | 21.4 | | 54 | 9.2 |
| | 60 | 53.6 | | 60 | 19.2 | | 60 | 8.2 |
| | 24 | 75.0 | | 24 | 39.4 | | 24 | 14.1 |
| | 30 | 73.8 | | 30 | 33.7 | | 30 | 12.9 |
| 60 | 36 | 62.3 | 90 | 36 | 27.9 | 120 | 36 | 16.3 |
| | 42 | 54.9 | | 42 | 23.5 | | 42 | 10.2 |
| | 48 | 49.6 | | 48 | 20.5 | | 48 | 9.0 |
| | 54 | 45.5 | | 54 | 18.2 | | 54 | 8.0 |
| | 60 | 42.1 | | 60 | 15.9 | | 60 | 7.1 |

PROJECT # 414-0106

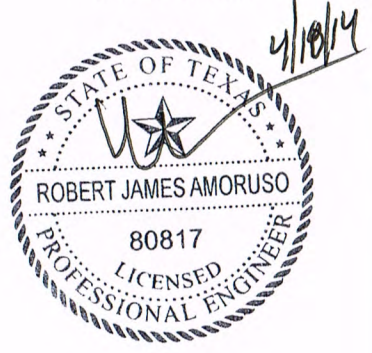
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

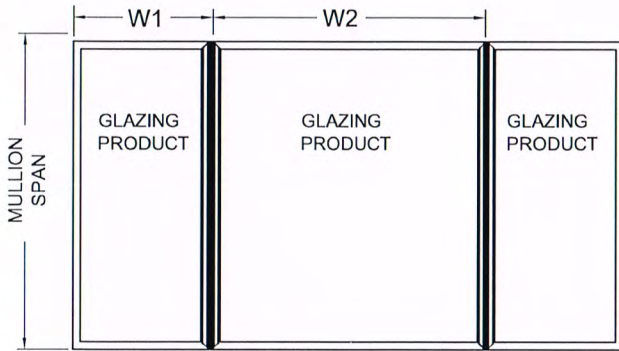
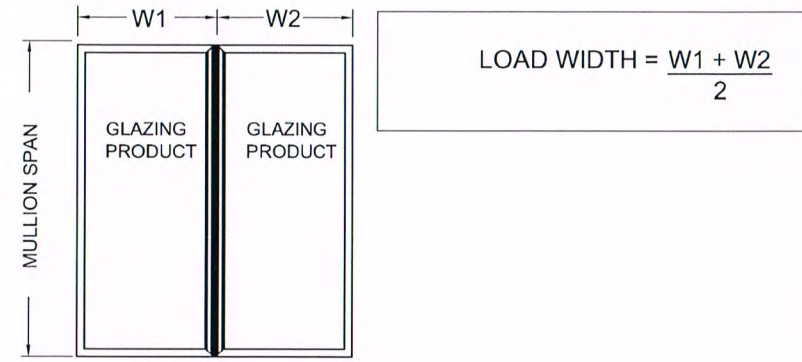
PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 14 OF 20
REV: ---



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 |
| WOOD | WOOD OR TAPPING SCREW | 2 |
| 1/8" THK. ALUMINUM | TAPPING SCREW | 4 |
| 1/8" THK. STEEL | TAPPING SCREW | 2 |
| 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.

FIN FRAME (CLIP V984357) INSTALLATION

| MULLION TABLE 1 (VERTICAL SPAN — 1/2" Light Duty Aluminum Mull) Vertical mull in side-by-side assembly unlimited width. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 24 | 24 | 75.0 | 60 | 24 | 75.0 | 96 | 24 | 31.9 |
| | 30 | 75.0 | | 30 | 25.9 | | | |
| | 36 | 75.0 | | 36 | 22.0 | | | |
| | 42 | 75.0 | | 42 | 19.2 | | | |
| | 48 | 75.0 | | 48 | 17.2 | | | |
| | 54 | 75.0 | | 54 | 15.8 | | | |
| | 60 | 75.0 | | 60 | 14.7 | | | |
| | 66 | 75.0 | | 66 | 13.8 | | | |
| 72 | 75.0 | 72 | 13.2 | | | | | |
| 30 | 24 | 75.0 | 66 | 24 | 75.0 | 102 | 24 | 26.5 |
| | 30 | 75.0 | | 30 | 21.5 | | | |
| | 36 | 75.0 | | 36 | 18.2 | | | |
| | 42 | 75.0 | | 42 | 15.9 | | | |
| | 48 | 75.0 | | 48 | 14.2 | | | |
| | 54 | 75.0 | | 54 | 12.9 | | | |
| | 60 | 75.0 | | 60 | 12.0 | | | |
| | 66 | 75.0 | | 66 | 11.2 | | | |
| 72 | 75.0 | 72 | 10.7 | | | | | |
| 36 | 24 | 75.0 | 72 | 24 | 66.5 | 108 | 24 | 22.3 |
| | 30 | 75.0 | | 30 | 18.0 | | | |
| | 36 | 75.0 | | 36 | 15.2 | | | |
| | 42 | 75.0 | | 42 | 13.3 | | | |
| | 48 | 75.0 | | 48 | 11.8 | | | |
| | 54 | 75.0 | | 54 | 10.8 | | | |
| | 60 | 75.0 | | 60 | 9.9 | | | |
| | 66 | 75.0 | | 66 | 9.3 | | | |
| 72 | 75.0 | 72 | 8.8 | | | | | |
| 42 | 24 | 75.0 | 78 | 24 | 56.3 | 114 | 24 | 18.9 |
| | 30 | 75.0 | | 30 | 15.3 | | | |
| | 36 | 75.0 | | 36 | 12.9 | | | |
| | 42 | 75.0 | | 42 | 11.2 | | | |
| | 48 | 75.0 | | 48 | 10.0 | | | |
| | 54 | 75.0 | | 54 | 9.1 | | | |
| | 60 | 75.0 | | 60 | 8.3 | | | |
| | 66 | 75.0 | | 66 | 7.8 | | | |
| 72 | 75.0 | 72 | 7.3 | | | | | |
| 48 | 24 | 75.0 | 84 | 24 | 48.0 | 120 | 24 | 16.2 |
| | 30 | 75.0 | | 30 | 13.1 | | | |
| | 36 | 75.0 | | 36 | 11.0 | | | |
| | 42 | 75.0 | | 42 | 9.6 | | | |
| | 48 | 75.0 | | 48 | 8.5 | | | |
| | 54 | 75.0 | | 54 | 7.7 | | | |
| | 60 | 75.0 | | 60 | 7.1 | | | |
| | 66 | 75.0 | | 66 | 6.6 | | | |
| 72 | 75.0 | 72 | 6.2 | | | | | |
| 54 | 24 | 75.0 | 90 | 24 | 38.9 | | 24 | 16.2 |
| | 30 | 75.0 | | 30 | 31.6 | | | |
| | 36 | 75.0 | | 36 | 26.9 | | | |
| | 42 | 75.0 | | 42 | 23.6 | | | |
| | 48 | 75.0 | | 48 | 21.2 | | | |
| | 54 | 75.0 | | 54 | 19.5 | | | |
| | 60 | 75.0 | | 60 | 18.2 | | | |
| | 66 | 75.0 | | 66 | 17.2 | | | |
| 72 | 75.0 | 72 | 16.6 | | | | | |

PROJECT # 414-0106

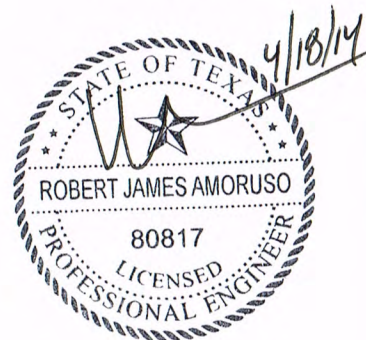
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 1

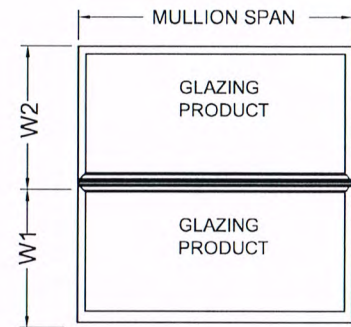
PREPARED BY: RJA
DRAWN BY: N.T.S.
DATE: 01/28/14
SCALE: N.T.S.
SHEET: PELL0034
REV: ---
15 OF 20



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 |
| WOOD | WOOD OR TAPPING SCREW | 2 |
| 1/8" THK. ALUMINUM | TAPPING SCREW | 4 |
| 1/8" THK. STEEL | TAPPING SCREW | 2 |
| 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.

FIN FRAME (CLIP V984357) INSTALLATION

| MULLION TABLE 2 (HORIZONTAL SPAN — 1/2" Light Duty Aluminum Mull) Horizontal mull in transom-over-single assembly. | | | | | | | | |
|--|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 48 | 24 | 75.0 | 72 | 24 | 66.5 | 96 | 24 | 31.9 |
| | 30 | 75.0 | | 30 | 54.4 | | 30 | 25.9 |
| | 36 | 75.0 | | 36 | 46.6 | | 36 | 22.0 |
| | 42 | 75.0 | | 42 | 41.3 | | 42 | 19.2 |
| | 48 | 75.0 | | 48 | 37.6 | | 48 | 17.2 |
| | 54 | 75.0 | | 54 | 35.0 | | 54 | 15.8 |
| | 60 | 75.0 | | 60 | 33.3 | | 60 | 14.7 |
| | 66 | 75.0 | | 66 | 32.3 | | 66 | 13.8 |
| 54 | 24 | 75.0 | 78 | 24 | 56.3 | 102 | 24 | 26.5 |
| | 30 | 75.0 | | 30 | 45.9 | | 30 | 21.5 |
| | 36 | 75.0 | | 36 | 39.2 | | 36 | 18.2 |
| | 42 | 75.0 | | 42 | 34.5 | | 42 | 15.9 |
| | 48 | 75.0 | | 48 | 31.2 | | 48 | 14.2 |
| | 54 | 75.0 | | 54 | 28.9 | | 54 | 12.9 |
| | 60 | 75.0 | | 60 | 27.2 | | 60 | 12.0 |
| | 66 | 75.0 | | 66 | 26.1 | | 66 | 11.2 |
| 60 | 24 | 75.0 | 84 | 24 | 48.0 | 108 | 24 | 22.3 |
| | 30 | 75.0 | | 30 | 39.1 | | 30 | 18.0 |
| | 36 | 69.8 | | 36 | 33.4 | | 36 | 15.2 |
| | 42 | 63.0 | | 42 | 29.3 | | 42 | 13.3 |
| | 48 | 58.6 | | 48 | 26.4 | | 48 | 11.8 |
| | 54 | 56.1 | | 54 | 24.2 | | 54 | 10.8 |
| | 60 | 55.3 | | 60 | 22.7 | | 60 | 9.9 |
| | 66 | 55.3 | | 66 | 21.5 | | 66 | 9.3 |
| 66 | 24 | 75.0 | 90 | 24 | 38.9 | 114 | 24 | 18.9 |
| | 30 | 65.5 | | 30 | 31.6 | | 30 | 15.3 |
| | 36 | 56.4 | | 36 | 26.9 | | 36 | 12.9 |
| | 42 | 50.3 | | 42 | 23.6 | | 42 | 11.2 |
| | 48 | 46.3 | | 48 | 21.2 | | 48 | 10.0 |
| | 54 | 43.6 | | 54 | 19.5 | | 54 | 9.1 |
| | 60 | 42.1 | | 60 | 18.2 | | 60 | 8.3 |
| | 66 | 41.6 | | 66 | 17.2 | | 66 | 7.8 |
| 120 | 24 | 16.2 | 120 | 24 | 16.2 | 120 | 24 | 16.2 |
| | 30 | 13.1 | | 30 | 13.1 | | 30 | 13.1 |
| | 36 | 11.0 | | 36 | 11.0 | | 36 | 11.0 |
| | 42 | 9.6 | | 42 | 9.6 | | 42 | 9.6 |
| | 48 | 8.5 | | 48 | 8.5 | | 48 | 8.5 |
| | 54 | 7.7 | | 54 | 7.7 | | 54 | 7.7 |
| | 60 | 7.1 | | 60 | 7.1 | | 60 | 7.1 |
| 66 | 6.6 | 66 | 6.6 | 66 | 6.6 | | | |

PROJECT # 414-0106

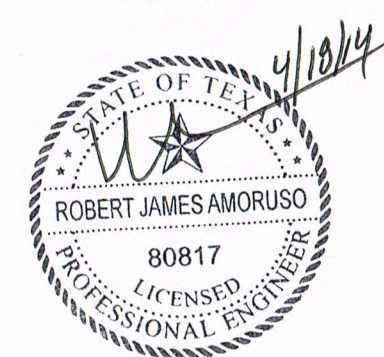
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
FIN FRAME - UNREINF. & REINF. MULL - TABLE 2

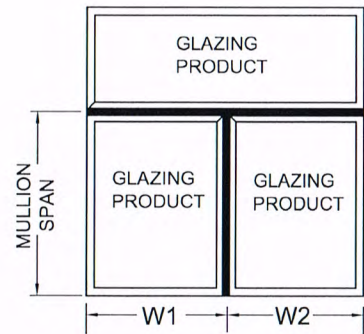
PREPARED BY: RJA
DRAWN BY: RJA
SCALE: N.T.S.
REV: ***
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 16 OF 20



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



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



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

FIN FRAME (CLIP V984357) INSTALLATION

| MULLION TABLE 3.1 (VERTICAL 3-WAY SPAN — 1/2" Light Duty Aluminum Mull) | | | | | | | | |
|--|------------|----------|-----------|------------|----------|-----------|------------|----------|
| Vertical mull in 3-way transom/side-by-side assembly. | | | | | | | | |
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 24 | 24 | 75.0 | 48 | 24 | 75.0 | 72 | 24 | 66.5 |
| | 30 | 75.0 | | 30 | 54.4 | | | |
| | 36 | 75.0 | | 36 | 46.6 | | | |
| | 42 | 75.0 | | 42 | 41.3 | | | |
| | 48 | 75.0 | | 48 | 37.6 | | | |
| | 54 | 75.0 | | 54 | 35.0 | | | |
| | 60 | 75.0 | | 60 | 33.3 | | | |
| | 66 | 75.0 | | 66 | 32.3 | | | |
| 30 | 24 | 75.0 | 54 | 24 | 75.0 | 78 | 24 | 56.3 |
| | 30 | 75.0 | | 30 | 45.9 | | | |
| | 36 | 75.0 | | 36 | 39.2 | | | |
| | 42 | 75.0 | | 42 | 34.5 | | | |
| | 48 | 75.0 | | 48 | 31.2 | | | |
| | 54 | 75.0 | | 54 | 28.9 | | | |
| | 60 | 75.0 | | 60 | 27.2 | | | |
| | 66 | 75.0 | | 66 | 26.1 | | | |
| 36 | 24 | 75.0 | 60 | 24 | 75.0 | 84 | 24 | 48.0 |
| | 30 | 75.0 | | 30 | 39.1 | | | |
| | 36 | 75.0 | | 36 | 33.4 | | | |
| | 42 | 75.0 | | 42 | 29.3 | | | |
| | 48 | 75.0 | | 48 | 26.4 | | | |
| | 54 | 75.0 | | 54 | 24.2 | | | |
| | 60 | 75.0 | | 60 | 22.7 | | | |
| | 66 | 75.0 | | 66 | 21.5 | | | |
| 42 | 24 | 75.0 | 66 | 24 | 75.0 | 90 | 24 | 38.9 |
| | 30 | 75.0 | | 30 | 31.6 | | | |
| | 36 | 75.0 | | 36 | 26.9 | | | |
| | 42 | 75.0 | | 42 | 23.6 | | | |
| | 48 | 75.0 | | 48 | 21.2 | | | |
| | 54 | 75.0 | | 54 | 19.5 | | | |
| | 60 | 75.0 | | 60 | 18.2 | | | |
| | 66 | 75.0 | | 66 | 17.2 | | | |
| 48 | 24 | 75.0 | 96 | 24 | 75.0 | 120 | 24 | 31.9 |
| | 30 | 75.0 | | 30 | 25.9 | | | |
| | 36 | 75.0 | | 36 | 22.0 | | | |
| | 42 | 75.0 | | 42 | 19.2 | | | |
| | 48 | 75.0 | | 48 | 17.2 | | | |
| | 54 | 75.0 | | 54 | 15.8 | | | |
| 54 | 24 | 75.0 | 102 | 24 | 75.0 | 126 | 24 | 14.7 |
| | 30 | 75.0 | | 30 | 13.8 | | | |
| | 36 | 75.0 | | 36 | 12.9 | | | |
| | 42 | 75.0 | | 42 | 12.0 | | | |

| ANCHOR QUANTITIES (PER CLIP END) | | |
|--|-----------------------|---------------|
| SUBSTRATE | ANCHOR | MIN. QUANTITY |
| WOOD | WOOD OR TAPPING SCREW | 2 |
| 1/8" THK. ALUMINUM | TAPPING SCREW | 4 |
| 1/8" THK. STEEL | TAPPING SCREW | 2 |
| 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. | | |

PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

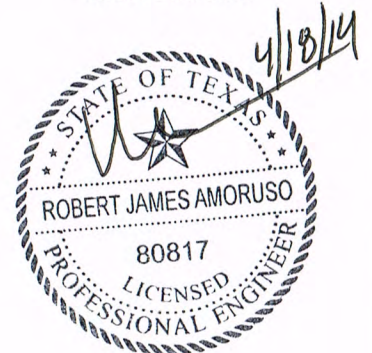
SERIES 350 VINYL WINDOW 1/2" LIGHT DUTY MULLION - IMPACT
FIN FRAME - UNREINFORCED & REINFORCED - TABLE 3.1



PREPARED BY: RJA
DRAWN BY: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 17 OF 20

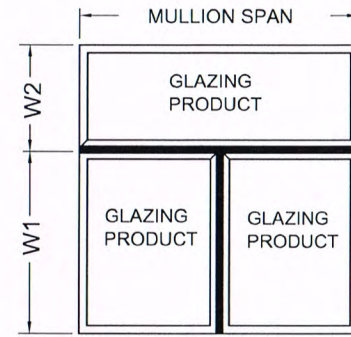
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
TX Reg. No. F-13740
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@pdc-corp.com

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



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

FIN FRAME (CLIP V984357) INSTALLATION



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

| MULLION TABLE 3.2 | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| (HORIZONTAL 3-WAY SPAN — 1/2" Light Duty Aluminum Mull) | | | | | | | | |
| Horizontal mull in 3-way transom/side-by-side assembly. | | | | | | | | |
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 48 | 24 | 75.0 | 78 | 24 | 59.1 | 108 | 24 | 22.7 |
| | 30 | 75.0 | | 30 | 48.3 | | 30 | 18.6 |
| | 36 | 75.0 | | 36 | 41.1 | | 36 | 15.9 |
| | 42 | 75.0 | | 42 | 36.0 | | 42 | 14.0 |
| | 48 | 75.0 | | 48 | 32.2 | | 48 | 12.5 |
| | 54 | 75.0 | | 54 | 29.3 | | 54 | 11.4 |
| | 60 | 75.0 | | 60 | 27.0 | | 60 | 10.6 |
| | 66 | 75.0 | | 66 | 25.2 | | 66 | 9.8 |
| 54 | 72 | 72.0 | 84 | 72 | 23.6 | 114 | 72 | 9.2 |
| | 24 | 75.0 | | 24 | 49.7 | | 24 | 19.2 |
| | 30 | 75.0 | | 30 | 41.0 | | 30 | 15.7 |
| | 36 | 75.0 | | 36 | 35.1 | | 36 | 13.4 |
| | 42 | 75.0 | | 42 | 30.7 | | 42 | 11.8 |
| | 48 | 73.2 | | 48 | 27.4 | | 48 | 10.5 |
| | 54 | 67.5 | | 54 | 24.9 | | 54 | 9.6 |
| | 60 | 62.8 | | 60 | 22.9 | | 60 | 8.9 |
| 60 | 66 | 58.7 | 90 | 66 | 21.3 | 120 | 66 | 8.2 |
| | 72 | 55.2 | | 72 | 20.0 | | 72 | 7.7 |
| | 24 | 75.0 | | 24 | 40.1 | | 24 | 16.4 |
| | 30 | 75.0 | | 30 | 33.0 | | 30 | 13.4 |
| | 36 | 72.3 | | 36 | 28.3 | | 36 | 11.4 |
| | 42 | 63.9 | | 42 | 25.0 | | 42 | 10.0 |
| | 48 | 57.6 | | 48 | 22.6 | | 48 | 9.0 |
| | 54 | 52.9 | | 54 | 20.7 | | 54 | 8.1 |
| 66 | 60 | 49.2 | 96 | 60 | 19.1 | 120 | 60 | 7.5 |
| | 66 | 46.1 | | 66 | 17.9 | | 66 | 7.0 |
| | 72 | 43.4 | | 72 | 16.9 | | 72 | 6.5 |
| | 24 | 75.0 | | 24 | 32.8 | | 24 | 16.4 |
| | 30 | 68.8 | | 30 | 26.9 | | 30 | 13.4 |
| | 36 | 58.8 | | 36 | 23.1 | | 36 | 11.4 |
| | 42 | 51.8 | | 42 | 20.3 | | 42 | 10.0 |
| | 48 | 46.6 | | 48 | 18.3 | | 48 | 9.0 |
| 72 | 54 | 42.6 | 102 | 54 | 16.7 | 120 | 54 | 8.1 |
| | 60 | 39.4 | | 60 | 15.5 | | 60 | 7.5 |
| | 66 | 36.9 | | 66 | 14.5 | | 66 | 7.0 |
| | 72 | 34.8 | | 72 | 13.6 | | 72 | 6.5 |
| | 24 | 68.6 | | 24 | 27.2 | | 24 | 16.4 |
| | 30 | 57.2 | | 30 | 22.3 | | 30 | 13.4 |
| | 36 | 48.8 | | 36 | 19.0 | | 36 | 11.4 |
| | 42 | 42.8 | | 42 | 16.8 | | 42 | 10.0 |
| 72 | 48 | 38.4 | 102 | 48 | 15.1 | 120 | 48 | 9.0 |
| | 54 | 35.0 | | 54 | 13.8 | | 54 | 8.1 |
| | 60 | 32.4 | | 60 | 12.7 | | 60 | 7.5 |
| | 66 | 30.2 | | 66 | 11.9 | | 66 | 7.0 |
| | 72 | 28.5 | | 72 | 11.1 | | 72 | 6.5 |

| ANCHOR QUANTITIES (PER CLIP END) | | |
|--|-----------------------|---------------|
| SUBSTRATE | ANCHOR | MIN. QUANTITY |
| WOOD | WOOD OR TAPPING SCREW | 2 |
| 1/8" THK. ALUMINUM | TAPPING SCREW | 4 |
| 1/8" THK. STEEL | TAPPING SCREW | 2 |
| 0.0346" THICK ASTM A-653, 33 KSI (STEEL STUDS) | TAPPING SCREW | 5 |

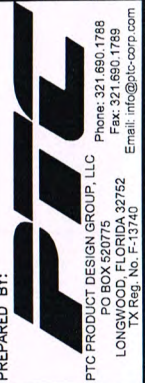
1) SEE ANCHOR SCHEDULE FOR FASTENER REQUIREMENTS.
2) ANCHOR QUANTITIES ARE FOR EACH CLIP END.

PROJECT # 414-0106

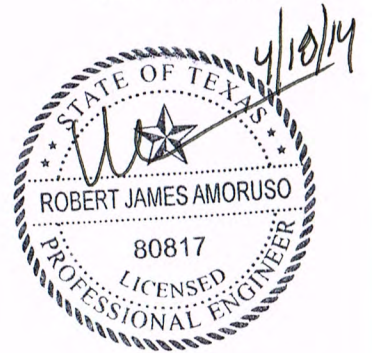
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

PREPARED BY: RJA
DRAWN BY: N.T.S.
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 18 OF 20

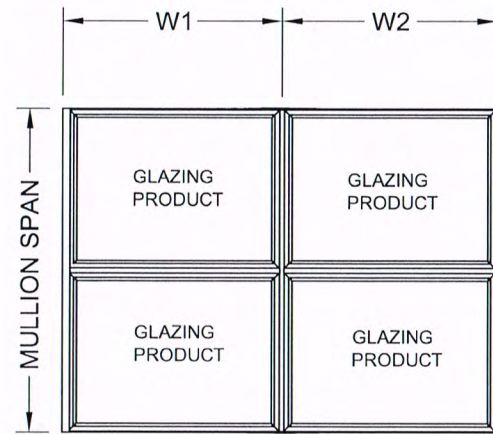


Robert J. Amoruso, P.E.
Texas PE No. 80817



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

FIN FRAME (CLIP V984357) INSTALLATION



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

| ANCHOR QUANTITIES (PER CLIP END) | | |
|--|-----------------------|---------------|
| SUBSTRATE | ANCHOR | MIN. QUANTITY |
| WOOD | WOOD OR TAPPING SCREW | 2 |
| 1/8" THK. ALUMINUM | TAPPING SCREW | 4 |
| 1/8" THK. STEEL | TAPPING SCREW | 2 |
| 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.

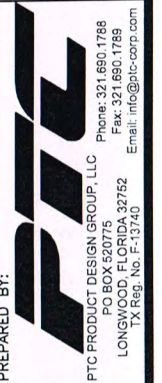
| MULLION TABLE 4.1 (VERTICAL 4-WAY SPAN — 1/2" Light Duty Aluminum Mull) Vertical mull in 4-way transom/side-by-side assembly. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 36 | 24 | 75.0 | 66 | 24 | 75.0 | 96 | 24 | 32.8 |
| | 30 | 75.0 | | 30 | 26.6 | | | |
| | 36 | 75.0 | | 36 | 22.4 | | | |
| | 42 | 75.0 | | 42 | 19.5 | | | |
| | 48 | 75.0 | | 48 | 17.3 | | | |
| | 54 | 75.0 | | 54 | 15.6 | | | |
| | 60 | 75.0 | | 60 | 14.2 | | | |
| | 72 | 68.4 | | 72 | 12.0 | | | |
| 42 | 24 | 75.0 | 72 | 24 | 64.0 | 102 | 24 | 27.2 |
| | 30 | 75.0 | | 30 | 22.1 | | | |
| | 36 | 75.0 | | 36 | 18.6 | | | |
| | 42 | 75.0 | | 42 | 16.2 | | | |
| | 48 | 75.0 | | 48 | 14.3 | | | |
| | 54 | 75.0 | | 54 | 12.9 | | | |
| | 60 | 75.0 | | 60 | 11.7 | | | |
| | 72 | 52.4 | | 72 | 9.9 | | | |
| 48 | 24 | 75.0 | 78 | 24 | 54.6 | 108 | 24 | 22.9 |
| | 30 | 75.0 | | 30 | 18.5 | | | |
| | 36 | 75.0 | | 36 | 15.6 | | | |
| | 42 | 75.0 | | 42 | 13.5 | | | |
| | 48 | 72.0 | | 48 | 12.0 | | | |
| | 54 | 64.0 | | 54 | 10.8 | | | |
| | 60 | 57.6 | | 60 | 9.8 | | | |
| | 72 | 48.0 | | 72 | 8.3 | | | |
| 54 | 24 | 75.0 | 84 | 24 | 47.0 | 114 | 24 | 19.4 |
| | 30 | 75.0 | | 30 | 15.7 | | | |
| | 36 | 75.0 | | 36 | 13.2 | | | |
| | 42 | 65.0 | | 42 | 11.5 | | | |
| | 48 | 56.9 | | 48 | 10.1 | | | |
| | 54 | 50.6 | | 54 | 9.1 | | | |
| | 60 | 45.5 | | 60 | 8.3 | | | |
| | 72 | 37.9 | | 72 | 7.0 | | | |
| 60 | 24 | 75.0 | 90 | 24 | 39.9 | 120 | 24 | 16.6 |
| | 30 | 73.8 | | 30 | 13.4 | | | |
| | 36 | 61.5 | | 36 | 11.3 | | | |
| | 42 | 52.7 | | 42 | 9.8 | | | |
| | 48 | 46.1 | | 48 | 8.7 | | | |
| | 54 | 41.0 | | 54 | 7.8 | | | |
| | 60 | 36.9 | | 60 | 7.1 | | | |
| | 72 | 30.7 | | 72 | 6.0 | | | |

PROJECT # 414-0106

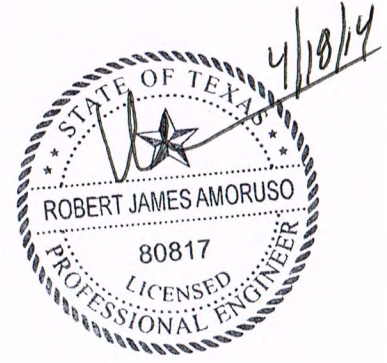
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

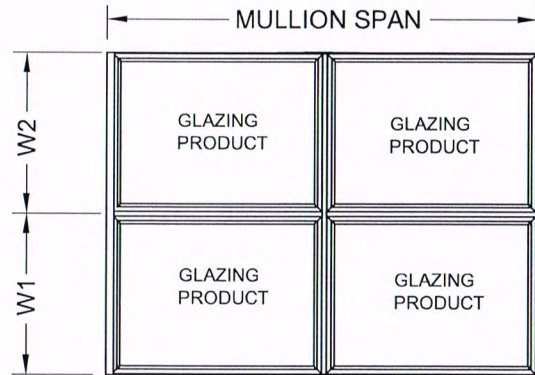
PREPARED BY: RJA
DATE: 01/28/14
DRAWING NO: PELL0034
SCALE: N.T.S.
SHEET: 19 OF 20
REV: ---



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



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



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

| ANCHOR QUANTITIES (PER CLIP END) | | |
|--|-----------------------|---------------|
| SUBSTRATE | ANCHOR | MIN. QUANTITY |
| WOOD | WOOD OR TAPPING SCREW | 2 |
| 1/8" THK. ALUMINUM | TAPPING SCREW | 4 |
| 1/8" THK. STEEL | TAPPING SCREW | 2 |
| 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.

FIN FRAME (CLIP V984357) INSTALLATION

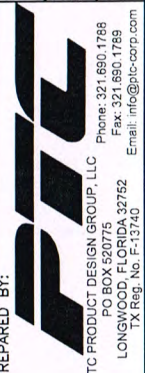
| MULLION TABLE 4.2 (HORIZONTAL 4-WAY SPAN — 1/2" Light Duty Aluminum Mull) Horizontal mull in 4-way transom/side-by-side assembly. | | | | | | | | |
|---|------------|----------|-----------|------------|----------|-----------|------------|----------|
| MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) | MULL SPAN | LOAD WIDTH | DP (PSF) |
| 36 | 24 | 75.0 | 66 | 24 | 75.0 | 96 | 24 | 31.5 |
| | 30 | 75.0 | | 30 | 61.2 | | 30 | 27.4 |
| | 36 | 75.0 | | 36 | 51.0 | | 36 | 23.5 |
| | 42 | 75.0 | | 42 | 44.6 | | 42 | 20.0 |
| | 48 | 75.0 | | 48 | 40.1 | | 48 | 17.3 |
| | 54 | 75.0 | | 54 | 36.6 | | 54 | 15.1 |
| 42 | 60 | 75.0 | 72 | 60 | 33.9 | 102 | 60 | 13.4 |
| | 24 | 75.0 | | 24 | 67.8 | | 24 | 25.5 |
| | 30 | 75.0 | | 30 | 51.9 | | 30 | 22.5 |
| | 36 | 75.0 | | 36 | 42.7 | | 36 | 19.5 |
| | 42 | 75.0 | | 42 | 37.0 | | 42 | 16.8 |
| | 48 | 75.0 | | 48 | 33.0 | | 48 | 14.5 |
| 48 | 54 | 75.0 | 78 | 54 | 30.1 | 108 | 54 | 12.7 |
| | 60 | 75.0 | | 60 | 27.8 | | 60 | 11.3 |
| | 24 | 75.0 | | 24 | 58.9 | | 24 | 20.8 |
| | 30 | 75.0 | | 30 | 44.8 | | 30 | 18.6 |
| | 36 | 75.0 | | 36 | 36.5 | | 36 | 16.3 |
| | 42 | 75.0 | | 42 | 31.3 | | 42 | 14.1 |
| 54 | 48 | 75.0 | 84 | 48 | 27.8 | 114 | 48 | 12.3 |
| | 54 | 75.0 | | 54 | 25.2 | | 54 | 10.8 |
| | 60 | 70.3 | | 60 | 23.2 | | 60 | 9.6 |
| | 24 | 75.0 | | 24 | 49.8 | | 24 | 17.1 |
| | 30 | 75.0 | | 30 | 39.2 | | 30 | 15.4 |
| | 36 | 75.0 | | 36 | 31.7 | | 36 | 13.7 |
| 60 | 42 | 69.5 | 90 | 42 | 26.9 | 120 | 42 | 12.0 |
| | 48 | 62.9 | | 48 | 23.7 | | 48 | 10.5 |
| | 54 | 57.8 | | 54 | 21.4 | | 54 | 9.2 |
| | 60 | 53.6 | | 60 | 19.2 | | 60 | 8.2 |
| | 24 | 75.0 | | 24 | 39.4 | | 24 | 14.1 |
| | 30 | 73.8 | | 30 | 33.7 | | 30 | 12.9 |
| 60 | 36 | 62.3 | 90 | 36 | 27.9 | 120 | 36 | 16.3 |
| | 42 | 54.9 | | 42 | 23.5 | | 42 | 10.2 |
| | 48 | 49.6 | | 48 | 20.5 | | 48 | 9.0 |
| | 54 | 45.5 | | 54 | 18.2 | | 54 | 8.0 |
| | 60 | 42.1 | | 60 | 15.9 | | 60 | 7.1 |

PROJECT # 414-0106

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

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

PREPARED BY: RJA
SCALE: N.T.S.
REV: ---
DATE: 01/28/14
DRAWING NO: PELL0034
SHEET: 20 OF 20



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

