

PELLA CORPORATION

SERIES 350 3-1/4" VINYL FIXED WINDOW

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED AND IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE AND FLORIDA RESIDENTIAL CODE BASED ON TESTING TO THE PERFORMANCE STANDARDS LISTED BELOW AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORTS AND ASSOCIATED LABORATORY STAMPED DRAWINGS AS CERTIFIED BY WDMA AND DOCUMENTED IN THEIR HALLMARK CERTIFICATE OF CONFORMANCE AND LICENSE (CCL).

1.1. AAMA/WDMA/CSA 101/I.S. 2/A440-08

1.2. AAMA/WDMA/CSA 101/I.S. 2/A440-11
2. THIS PRODUCT EVALUATION DOCUMENT IS NOT FOR USE IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

3. 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.
4. 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.

5. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, THIS PRODUCT SHALL USE AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS.
6. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.

7. BOUNDING BOX DIMENSIONS FOR GEOMETRIC FIXED WINDOW SHAPES MUST BE EQUAL TO OR LESS THAN RECTANGULAR DIMENSIONS SHOWN HEREIN.
8. WINDOW FRAME MATERIAL: VINYL (PVC)

9. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04e1.
10. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING (AS APPLICABLE):

10.1. X: OPERABLE LITE, SASH OR PANEL

10.2. O: FIXED LITE, SASH OR PANEL

11. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING AND RESIDENTIAL CODES.
12. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCT'S CERTIFICATION SHALL CONTROL FOR THE INSTALLED WINDOW ASSEMBLY.

13. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

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 FINISHES, 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, INCLUDING 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. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEET 4 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.

4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
5. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH THE TABLES ON SHEET 2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE TABLES ON SHEET 2 ARE ACCEPTABLE.

6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
- 6.1. FOR POCKET FRAME INSTALLATIONS, SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR

7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN THE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 2.

SEE SHEET 2
FOR DESIGN
PRESSURES.
SEE GENERAL
NOTE 12 FOR
ADDITIONAL
REQUIREMENTS

TABLE OF CONTENTS		
SHEET	REV.	SHEET DESCRIPTION
1	B	GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS
2	B	ANCHOR SCHEDULES AND DP CHART
3	B	ELEVATIONS & ANCHOR LAYOUTS
4	B	POCKET FRAME INSTALLATION SECTION AND B.O.M.

PROJECT # 417-0804

PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219

TITLE:
SERIES 350 3-1/4" VINYL FIXED WINDOW
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

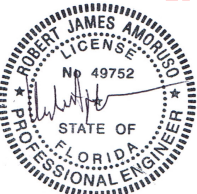
PREPARED BY:
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SCALE: N.T.S.
REV: C

DATE: 06/13/11
DRAWING NO: PELL0003
SHEET: 1 OF 4



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INSTALLATION ANCHOR SCHEDULE							
WINDOW FRAME TYPE	FASTENER HEAD TYPE	FASTENER SIZE	SUBSTRATE	MANUFACTURER AND/OR SPECIFICATION	EMBEDMENT (IN) (2)	EDGE DISTANCE (IN) (2)	ANCHOR CAPACITIES BASED ON
POCKET FRAME USING THROUGH FRAME ANCHOR	FLAT OR HEX HEAD	3/16"	CONCRETE	ITW TAPCONS (1)	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE
				ELCO ULTRACONS	1-3/8"	1"	MIN. 2500 PSI CONCRETE
				ELCO CRETE-FLEX SS4	2"	1-7/8"	MIN. 2500 PSI CONCRETE
				HILTI KWIK-CON II	1-1/2"	1-1/8"	MIN. 2000 PSI CONCRETE
			MASONRY (BLOCK/CMU)	ITW TAPCONS (1)	1"	2"	STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT
				ELCO ULTRACONS	1-1/4"	1"	
				ELCO CRETE-FLEX SS4	1-1/4"	1-7/8"	
				HILTI KWIK-CON II	1"	1-1/8"	
	FLAT OR PAN HEAD	NO. 10	WOOD	ANSI B18.6.1 (WOOD SCREW) (2)	1-1/2"	1"	WOOD WITH A MINIMUM SPECIFIC GRAVITY OF 0.42
				ASME B18.6.4 (TAPPING SCREW) (2)			
			20 GAUGE (0.0346" MIN. THK.) STEEL INCLUDING STEEL STUDS	ASME B18.6.4 (TAPPING SCREW) (2)	FULLY PENETRATE SUBSTRATE WITH 3 THREADS PROTRUDING INTERNALLY	1"	ASTM A-653 STEEL, 33 KSI YIELD STRENGTH STEEL OR BETTER
			1/8" MIN. THK. STEEL	ASME B18.6.4 (TAPPING SCREW) (2)		1"	ASTM A-36 STEEL, 36 KSI YIELD STRENGTH STEEL OR BETTER
			0.060" MIN. THK. ALUMINUM	ASME B18.6.4 (TAPPING SCREW) (2)		1"	6063-T5 ALUMINUM OR BETTER

NOTES:

1) WHEN ITW TAPCONS ARE USED FOR CONCRETE/MASONRY INSTALLATION, THEY SHALL BE THE ADVANCED THREADFORM TECHNOLOGY TYPE.

2) FOR WOOD AND TAPPING SCREWS IF SPLITTING IS A CONCERN, DRILL 7/64" PILOT HOLE FOR POCKET FRAME INSTALLATION.

NOTES:

1.

INSTALLATION ANCHOR SCHEDULE

TABLE LISTS APPROVED ANCHOR SPECIFICATIONS BASED ON THE WINDOW FRAME TYPE AND SUBSTRATE.
2.

3-1/4" POCKET FRAME INSTALLATION - SINGLE CONFIGURATION

TABLE LISTS THE FOLLOWING INFORMATION.

2.1.

REQUIRED ANCHOR TYPE BASED ON SUBSTRATE.

2.2.

END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.

2.3.

MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.

2.3.1.

QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.

2.4.

MAXIMUM WINDOW SIZES (W x H)

2.5.

MAXIMUM DESIGN PRESSURE (DP)
3.

3-1/4" POCKET FRAME INSTALLATION - TWIN & TRIPLE CONFIGURATION

TABLE LISTS THE FOLLOWING INFORMATION.

3.1.

REQUIRED ANCHOR TYPE BASED ON SUBSTRATE.

3.2.

END DISTANCE (ED) OF ANCHORS AT FRAME ENDS AS DIMENSIONED ON ELEVATION DRAWINGS.

3.3.

MAXIMUM O.C. (ON CENTER) SPACING FOR ANCHORS BETWEEN THE FRAME END ANCHORS DIMENSIONED ON ELEVATION DRAWINGS.

3.3.1.

QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS.

3.4.

MAXIMUM WINDOW SIZES (W x H)

3.5.

MAXIMUM DESIGN PRESSURE (DP)

3.6.

TRANSITION BAR (INTEGRAL MULLION) ANCHOR CLUSTER INCLUDING:

3.6.1.

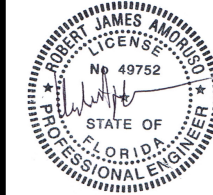
QUANTITY CLUSTERED ANCHORS, AND

3.6.2.

MINIMUM SPACING OF CLUSTERED ANCHORS.

3-1/4" POCKET FRAME INSTALLATION - SINGLE CONFIGURATION *										
FRAME CONFIGURATION	ANCHOR (SEE ANCHOR SCHEDULE)	MAX. WINDOW SIZE		DP (psf)	END DISTANCE (ED) (in)		MAX. O.C. (in)			
		W (in)	H (in)		HEAD/SILL	JAMBS	HEAD/SILL	JAMBS		
POCKET FRAME USING THROUGH FRAME ANCHOR	NO. 10 WS (ANSI B18.6.1)	76.00	76.00	40	6.00	6.00	16	16		
		76.00	76.00	60			10	10		
		96.00	66.00	40			15 1/4	22 1/2		
		96.00	66.00	60			9 1/2	13		
		112.00	55.00	40			14	14		
		112.00	55.00	60			9	9		
	3/16" CONCRETE SCREW OR NO. 10 TAPPING SCREW (ASME B18.6.4)	76.00	76.00	40			20	20		
		76.00	76.00	60			16	16		
		96.00	66.00	40			16 3/4	27 1/2		
		96.00	66.00	60			10 1/2	13 1/2		
		112.00	55.00	40			20	20		
		112.00	55.00	60			14	14		
		*SINGLE CONFIGURATION UNITS MAY BE INSTALLED AT A 90 ⁰ ORIENTATION SWAPPING MAX. WIDTH AND MAX. HEIGHT WINDOW SIZE.								

3-1/4" POCKET FRAME INSTALLATION - TWIN & TRIPLE CONFIGURATION										
FRAME CONFIGURATION	ANCHOR (SEE ANCHOR SCHEDULE)	MAX. WINDOW SIZE		DP (psf)	TRANSITION BAR ANCHOR CLUSTER AT HEAD/SILL		ED (in)		MAX. O.C. (in)	
		W (in)	H (in)		Qty.	MIN O.C. (in)	HEAD/SILL	JAMBS	HEAD/SILL	JAMBS
POCKET FRAME USING THROUGH FRAME ANCHOR	NO. 10 WS (ANSI B18.6.1)	97	78	40	4	1	4.5	4.5	11	11
		97	78	60	6					
		112	78	40	4					
		112	78	60	6					
	3/16" CONCRETE SCREW	97	78	40	3	2				
		97	78	60	5					
		112	78	40	3					
		112	78	60	4					
	NO. 10 TAPPING SCREW (ASME B18.6.4)	97	78	40	3	1				
		97	78	60	5					
		112	78	40	3					
		112	78	60	4					



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PELLA CORPORATION

102 MAIN STREET
PELLA, IA 50219

TITLE:
SERIES 350 3-1/4" VINYL FIXED WINDOW
ANCHOR SCHEDULES AND DP CHART

PREPARED BY:
DRAWN BY: TJH
SCALE:
N.T.S.

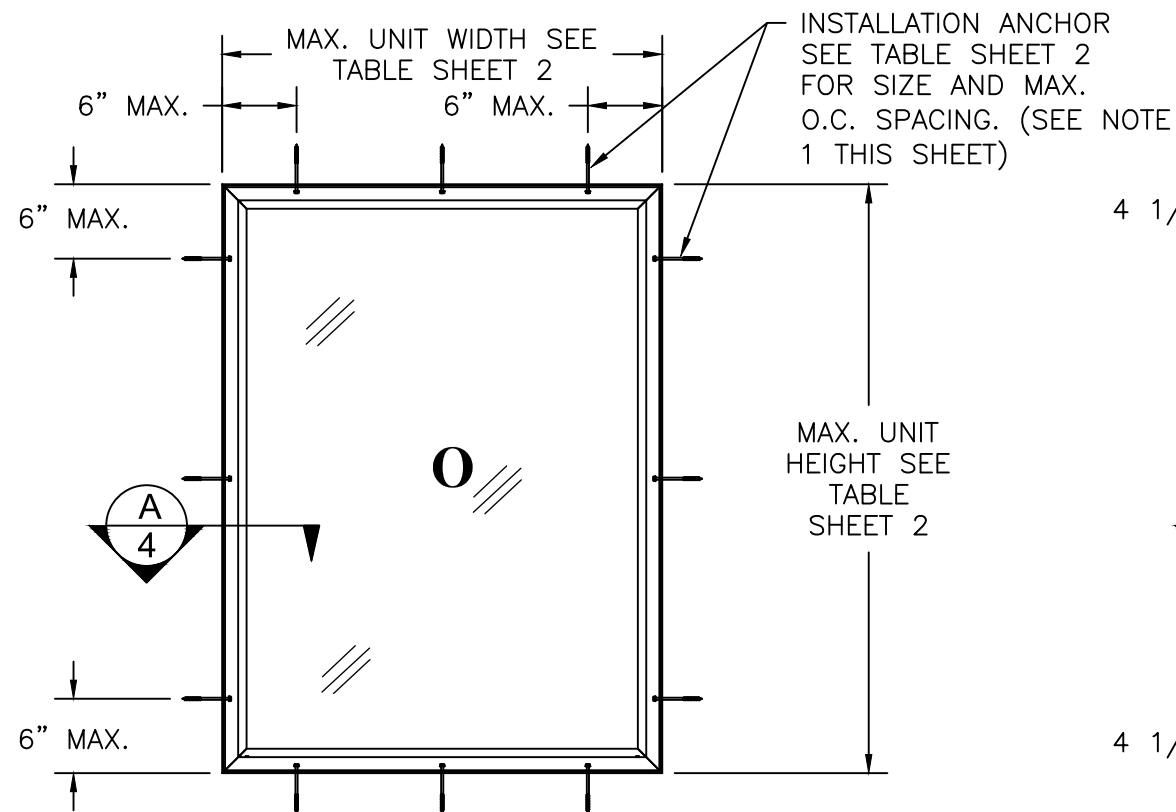
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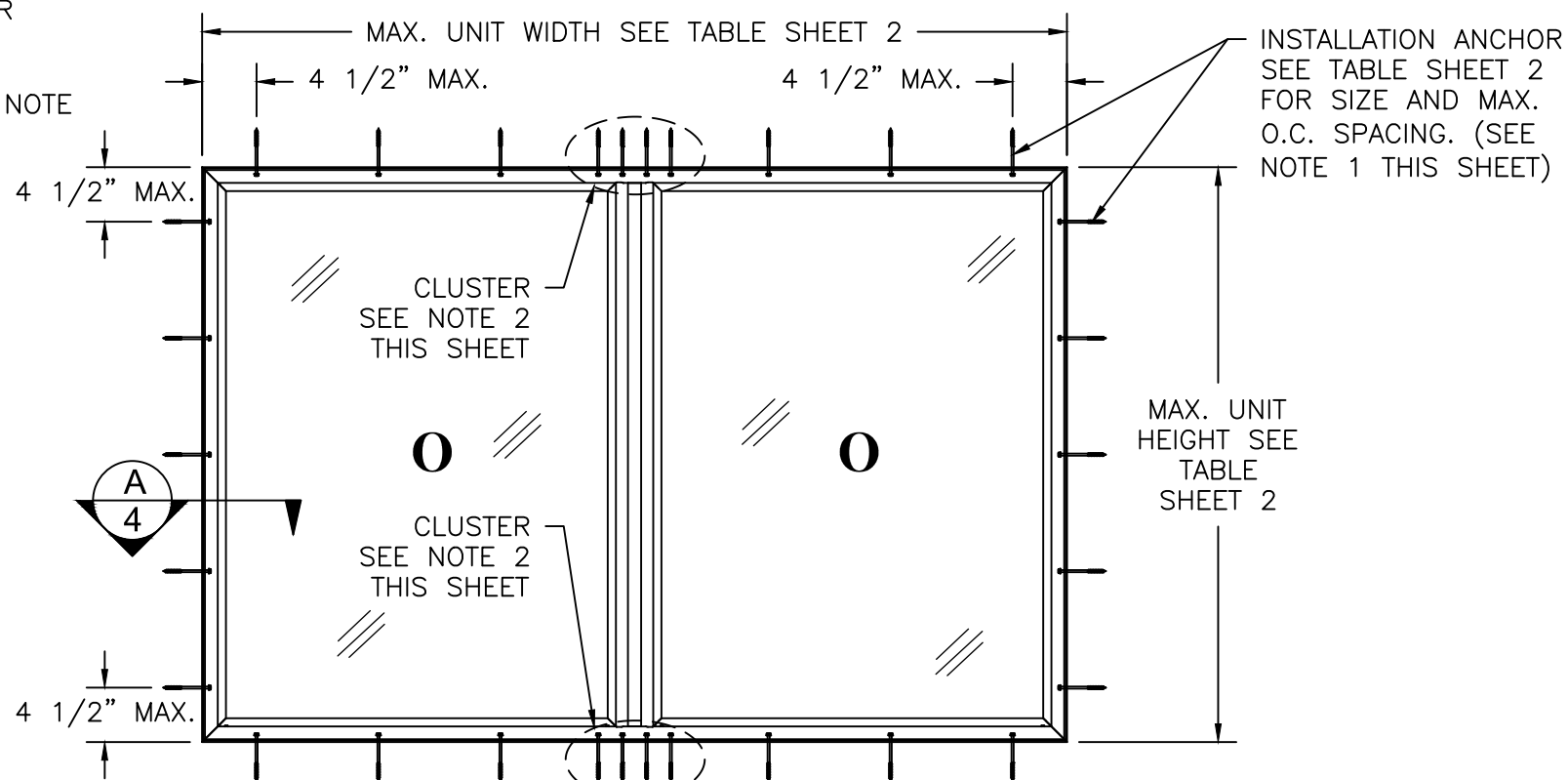
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PROJECT # 417-0804

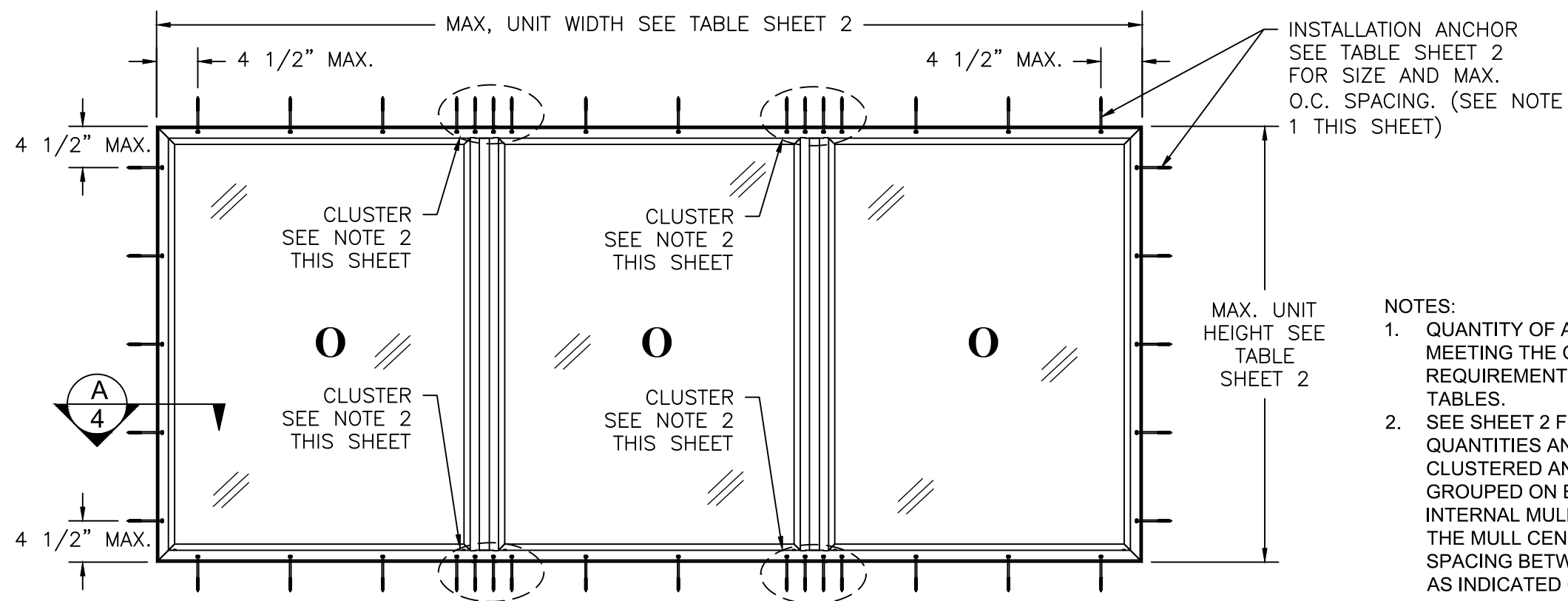
RJA	RJA	TJH	BY
8/16/18	10/8/14	07/26/11	DATE
GENERAL UPDATE	GENERAL UPDATE	ADDED ADDITIONAL SINGLE UNIT SIZES	DESCRIPTION
C	B	A	REV



SERIES 350 SINGLE VINYL FIXED WINDOW
POCKET FRAME THROUGH FRAME INSTALLATION
EXTERIOR VIEW



SERIES 350 TWIN VINYL FIXED WINDOW
POCKET FRAME THROUGH FRAME INSTALLATION
EXTERIOR VIEW



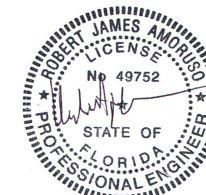
SERIES 350 TRIPLE VINYL FIXED WINDOW
POCKET FRAME THROUGH FRAME INSTALLATION
EXTERIOR VIEW

NOTES:

1. QUANTITY OF ANCHORS BASED ON MEETING THE O.C. SPACING REQUIREMENTS SHOWN ON SHEET 2 TABLES.
2. SEE SHEET 2 FOR CLUSTERED ANCHOR QUANTITIES AND MINIMUM SPACING. CLUSTERED ANCHORS SHALL BE EVENLY GROUPED ON EACH SIDE OF THE INTERNAL MULLION AND SPACED 3" FROM THE MULL CENTERLINE. SUBSEQUENT SPACING BETWEEN ANCHORS SHALL BE AS INDICATED ON SHEET 2 TABLES.

PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219				PROJECT # 417-0804				
TITLE: SERIES 350 3-1/4" VINYL FIXED WINDOW THROUGH FRAME AND CLIP FRAME ELEVATIONS & ANCHORS				C		GENERAL UPDATE	8/16/18	RJA
				B		GENERAL UPDATE	10/8/14	RJA
				A		ADDED ADDITIONAL SINGLE UNIT SIZES	07/26/11	TJH
				REV		DESCRIPTION	DATE	BY
				DRAWN BY:		TJH	DATE:	06/13/11
 PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com				SCALE:		N.T.S.	DRAWING NO:	PELL0003
				REV:		C	SHEET:	3 OF 4

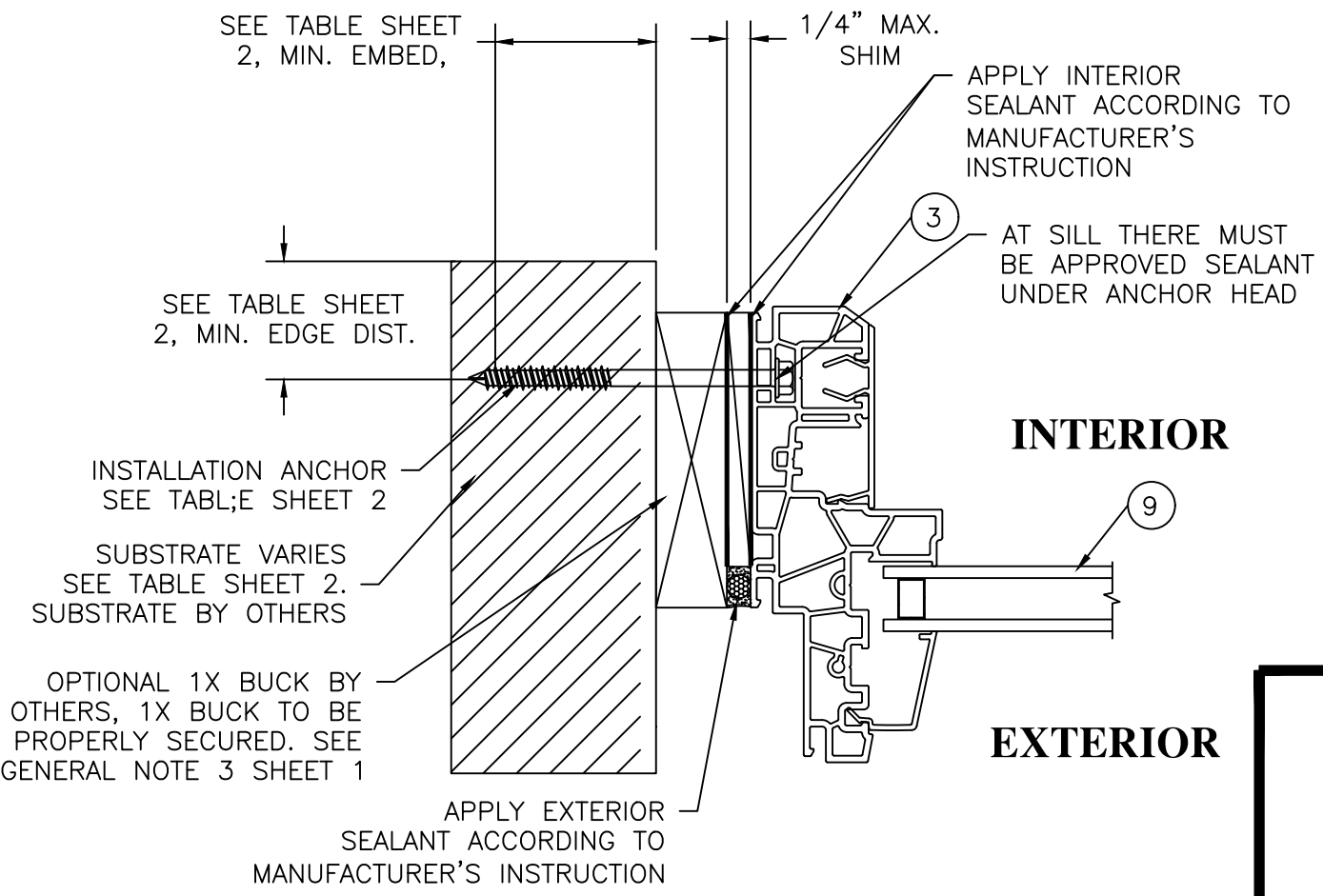
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BILL OF MATERIALS				
ITEM NO.	DESCRIPTION	QTY		
		1 WIDE	2 WIDE	3 WIDE
1	FRAME SILL	1	1	1
2	FRAME HEAD	1	1	1
3	FRAME JAMB, LEFT	1	1	1
4	FRAME JAMB, RIGHT	1	1	1
5	TRANSITION BAR ASSEMBLY	-	1	2
6	#8 X 2 1/2" PHILLIPS STAINLESS STEEL DRYWALL SCREW	-	8	16
7	FRAME COVER, WIDTH	2	4	6
8	FRAME COVER, HEIGHT	2	4	6
9 (SEE NOTE THIS SHEET)	11/16" IG ASSEMBLY (SHOWN)	1 (OPT)	1 (OPT)	1 (OPT)
	1" IG ASSEMBLY			
	1 1/4" TRIPLE IG ASSEMBLY			
	1 7/16" TRIPLE IG ASSEMBLY			
10	11/16" FIXED GLAZING BEAD, RAIL, WITH WEEPS (SHOWN) (WHITE/ALMOND)	1 (OPT)	2 (OPT)	3 (OPT)
	1" FIXED GLAZING BEAD, RAIL, WITH WEEPS (WHITE/ALMOND)			
	11/16" FIXED GLAZING BEAD, RAIL, WITH WEEPS (BROWN)			
	1" FIXED GLAZING BEAD, RAIL, WITH WEEPS (BROWN)			
	1 1/4" FIXED GLAZING BEAD, RAIL, WITH WEEPS (ALL COLORS)			
	1 7/16" FIXED GLAZING BEAD, RAIL, WITH WEEPS (ALL COLORS)			
11	11/16" FIXED GLAZING BEAD, RAIL, TOP (SHOWN) (WHITE/ALMOND)	1 (OPT)	2 (OPT)	3 (OPT)
	1" FIXED GLAZING BEAD, RAIL, TOP (WHITE/ALMOND)			
	11/16" FIXED GLAZING BEAD, RAIL, TOP (BROWN)			
	1" FIXED GLAZING BEAD, RAIL, TOP (BROWN)			
	1 1/4" FIXED GLAZING BEAD, RAIL, TOP (ALL COLORS)			
	1 7/16" FIXED GLAZING BEAD, RAIL, TOP (ALL COLORS)			
12	11/16" FIXED GLAZING BEAD, STILE (SHOWN) (WHITE/ALMOND)	2 (OPT)	4 (OPT)	6 (OPT)
	1" FIXED GLAZING BEAD, STILE (WHITE/ALMOND)			
	11/16" FIXED GLAZING BEAD, STILE (BROWN)			
	1" FIXED GLAZING BEAD, STILE (BROWN)			
	1 1/4" FIXED GLAZING BEAD, STILE (ALL COLORS)			
	1 7/16" FIXED GLAZING BEAD, STILE (ALL COLORS)			
13	SETTING BLOCK			
14	GLAZING SEALANT			
15	HEAD EXPANDER	1 (OPT)	1 (OPT)	1 (OPT)
16	SLOPE SILL ADAPTER	1	1	1
17	BROWN TOUCHUP PAINT			
18	NARROW JOINT SEAM SEALER, CLEAR			

NOTE:
1 GLASS THICKNESS IS BASED ON PERFORMANCE GRADE RATING AND SIZE OF WINDOW PER ASTM E1300.

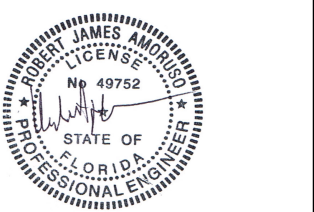


A
4 **HORIZONTAL CROSS SECTION**
POCKET FRAME THROUGH FRAME INSTALLATION
JAMB SHOWN, HEAD AND SILL SIMILAR

PROJECT # 417-0804	RJA	RJA	TJH	BY
	8/16/18	10/8/14	07/26/11	DATE
	GENERAL UPDATE	GENERAL UPDATE	ADDED ADDITIONAL SINGLE UNIT SIZES	DESCRIPTION
	C	B	A	REV

PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219		TITLE: SERIES 350 3-1/4" VINYL FIXED WINDOW POCKET FRAME INSTALLATION HORIZONTAL SECTION AND B.O.M.			
PREPARED BY:		DRAWN BY:	TJH	DATE:	06/13/11
		SCALE:	N.T.S.	DRAWING NO:	PELL0003
		REV:	C	SHEET:	4 OF 4
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25935		Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com			

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