

REGENCY PLUS, INC.

SERIES 5405 IMPACT VINYL HORIZONTAL SLIDING WINDOW

INSTALLATION ANCHORAGE DETAILS

NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
2.

WOOD FRAMING, 2X WOOD BUCK, METAL FRAMING AND CONCRETE/MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE/MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3.

1X BUCK OVER CONCRETE/MASONRY IS OPTIONAL. WHERE 1X BUCKS ARE USED, INSTALLATION ANCHORS WILL PASS THROUGH WINDOW FRAME AND 1X BUCK INTO CONCRETE/MASONRY SUBSTRATE. WHERE 1X BUCK IS NOT USED, INSTALLATION ANCHORS WILL PASS THROUGH WINDOW FRAME INTO CONCRETE/MASONRY SUBSTRATE. DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4.

THE PRODUCT SHOWN HEREIN HAS BEEN TESTED TO TAS 201, TAS 202 AND TAS 203. SEE TEST REPORT NO. NCTL-110-9869-1 DATED 11/22/05 (REVISED 7/10/06) BY NATIONAL CERTIFIED TESTING LABORATORIES, YORK, PA , SIGNED AND SEALED BY ROBERT H. ZEIDERS P.E. FOR DETAILS.
5.

MATERIAL:

5.1.

FRAME: EXTRUDED RIGID PVC.

5.2.

REINFORCEMENT: GALVANIZED STEEL TUBE - CENTER HOLLOW OF SASH MEMBERS AND MEETING RAIL.
6.

GLAZING:

6.1.

GLAZING DETAIL AS TESTED: 7/8" NOMINAL O.A. IGU COMPRISED OF FROM EXTERIOR TO INTERIOR - LAMI LITE OF 1/8" ANNEALED GLASS x 0.090" KURARAY AMERICA TROSIFOL PVB INTERLAYER x 1/8" ANNEALED GLASS, DESICCANT STEEL SPACER, 1/8" TEMPERED SACRIFICIAL LITE. ACTIVE PANEL INTERIOR GLAZED WITH SIKA SIKAFLEX 552 BACK-BEDDING (OR EQUIVALENT), TWO (2) LEAF DUAL DUROMETER BACK-BEDDINGS AND SNAP-IN TWO (2) LEAF DUAL DUROMETER GLAZING BEAD WITH 7/16" GLASS BITE. FIXED PANEL INTERIOR GLAZED WITH SIKA SIKAFLEX 552 BACK-BEDDING (OR EQUIVALENT) AND SNAP-IN TWO (2) LEAF DUAL DUROMETER GLAZING BEAD WITH 7/16" GLASS BITE.

6.2.

AS TESTED GLAZING MEETS ASTM E1300-09a FOR THE DESIGN CONDITIONS SHOWN IN THIS PRODUCT APPROVAL DOCUMENT.

6.3.

ALTERNATE GLAZING MEETING THE REQUIREMENTS OF AAMA/WDMA/CSA 101/I.S.2/A440 SHALL BE ALLOWED PER ASTM E1300.

6.4.

SETTING BLOCKS IF USED AND/OR WHERE REQUIRED BY THE CURRENT EDITION OF THE FLORIDA BUILDING CODE SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER. GLAZING BEADS (GASKETS) SHALL MEET THE CURRENT EDITION OF THE FLORIDA BUILDING CODE AS REQUIRED.
7.

APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8.

SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9.

FOR ANCHORING INTO CONCRETE/MASONRY USE 3/16" HEX HEAD TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO CONCRETE WITH 1 1/8" MINIMUM EDGE DISTANCE AND 1" MINIMUM EMBEDMENT INTO MASONRY WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
10.

FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 PAN HEAD WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
11.

FOR ANCHORING INTO METAL STRUCTURE USE #10 PAN OR HEX HEAD SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
12.

ALL FASTENERS TO BE CORROSION RESISTANT.
13.

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 BELOW:

13.1.

WOOD - MINIMUM SPECIFIC GRAVITY OF (G) 0.42 (NON-HVHZ) AND 0.55 (HVHZ)

13.2.

CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI

13.3.

MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT WITH DENSITY > 117 PCF

13.4.

METAL STRUCTURE: STEEL 18GA (0.0428"), 33KSI OR ALUMINUM 6063-T5 0.048" THICK MINIMUM
14.

APPROVED CONFIGURATIONS: OX AND XO.

TABLE OF CONTENTS	
SHEET	DESCRIPTION
1	NOTES
2	ELEVATION & ANCHORING
3	INSTALLATION DETAILS

PROJECT #417-0906				
			1/22/18	RJA
			DATE	BY
		UPDATE TO CURRENT EDITION OF FBC		
		DESCRIPTION		
		REV		

REGENCY PLUS, INC.

2000 LOCUST GAP HIGHWAY

MT. CARMEL, PA 17851

TITLE: SERIES 5405 IMPACT VINYL HORIZONTAL SLIDING WINDOW

NOTES

DRAWN BY: RJA

DATE: 1/11/18

SCALE: N.T.S.

DRAWING NO: RPLS0056

REV: C

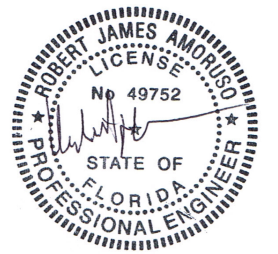
SHEET: 1 OF 3

PREPARED BY:



Robert J. Amoruso, P.E.

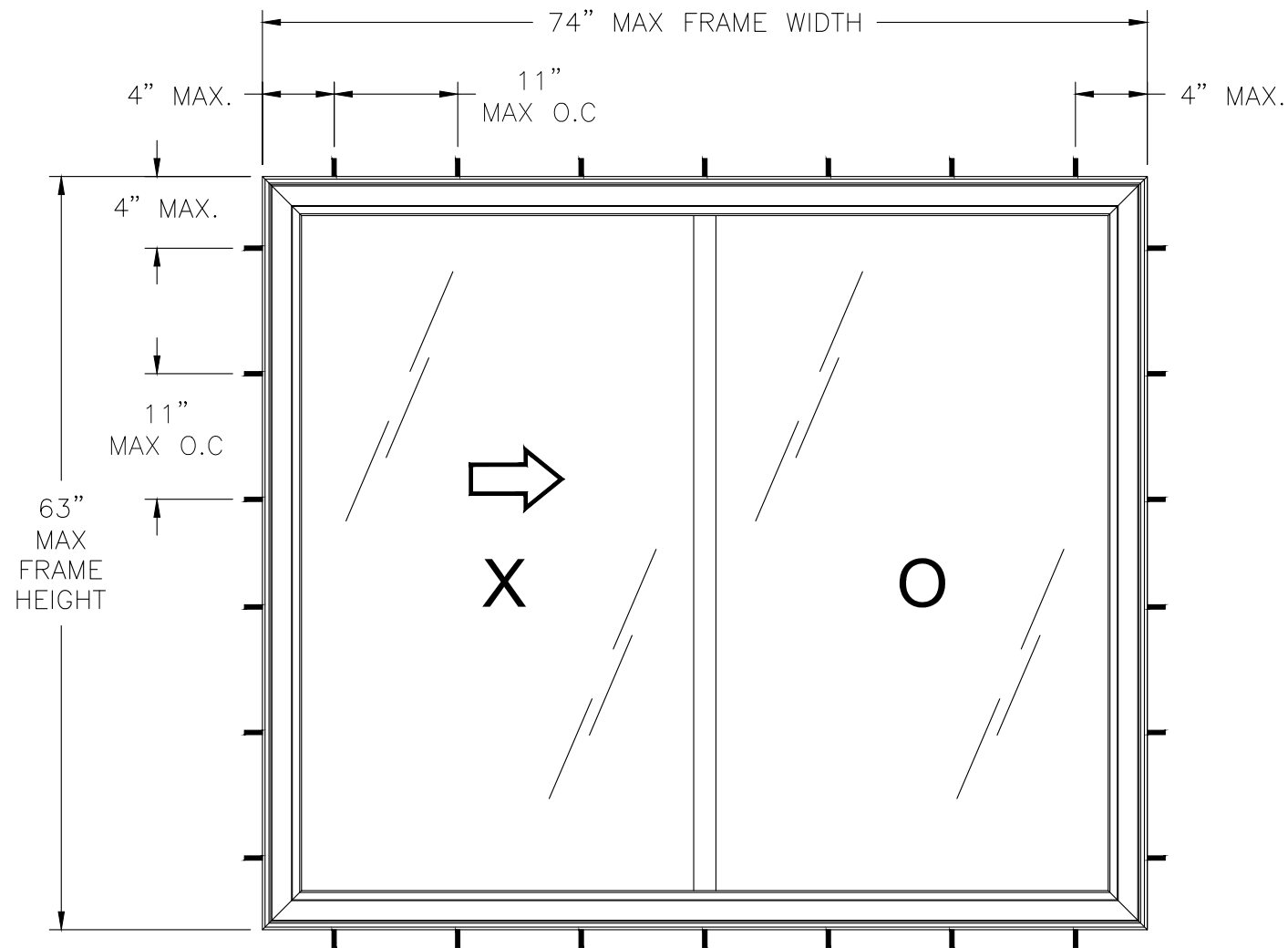
Florida P.E. No. 49752



Digitally signed by Robert J Amoruso

Date: 2018.02.02 13:32:28 -05'00'

PTC Product Design Group, LLC
PO Box 520775
Longwood, FL 32752-0775
321-690-1788 info@ptc-corp.com
FBPE Certificate of Authorization
No. 25935



SERIES 5405 VINYL HORIZONTAL SLIDING WINDOW XO
EXTERIOR VIEW

DESIGN PRESSURE RATING (PSF)	IMPACT RATING
+55.0/-55.0	LARGE AND SMALL MISSILE IMPACT

HVHZ AND WIND ZONE 4, MISSILE LEVEL D

NOTES:

1. MAXIMUM PANEL SIZE: 35-7/16" X 60"
2. MAXIMUM D.L.O.: 33" X 57-1/2" (FIXED LITE)
3. (1) 1/2" X 1/2" TRIANGULAR-SHAPED WEEP HOLE AT EACH END OF INTERIOR SILL TRACK.
4. (1) 1/2" X 3/8" WEEP HOLE AT MIDSPAN OF INTERIOR SILL TRACK.
5. (1) 5/8" X 3/8" WEEP HOLE AT FIXED MEETING RAIL END OF EXTERIOR SILL TRACK.
6. (1) 3/4" X 3/8" WEEP NOTCH AT EACH END OF INTERIOR BILL TRACK COVER.
7. (1) 1-1/2" X 1/4" WEEP HOLE WITH PLASTIC WEEP COVER AT 2-7/8" FROM EACH ENID OF EXTERIOR VERTICAL SILL FACE.
8. (1) 1/4" X 9/16" WEEP NOTCH AT MIDSPAN OF INTERIOR SILL TRACK COVER.

HARDWARE SCHEDULE	
A.	(1) METAL CAM-TYPE SWEEP LOCK 13" FROM EACH END OF ACTIVE MEETING STILE
B.	(1) METAL KEEPER AT FIXED MEETING STILE
C.	(1) METAL TILT LATCH AT TOP OF BOTH ACTIVE PANEL STILES
D.	STEEL REINFORCEMENT AT FIXED MEETING RAIL AND ALL PANEL MEMBER HOLLOW

PROJECT #417-0906				RJA	BY
				1/22/18	DATE
			UPDATE TO CURRENT EDITION OF FBC	C	REV
		DESCRIPTION			

REGENCY PLUS, INC.

2000 LOCUST GAP HIGHWAY

MT. CARMEL, PA 17851

TITLE: SERIES 5405 IMPACT VINYL HORIZONTAL SLIDING WINDOW ELEVATION AND ANCHORING

DRAWN BY: RJA

SCALE: N.T.S.

REV: C

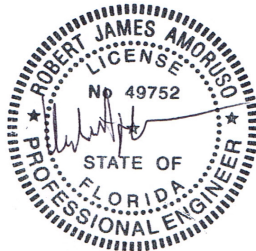
DATE: 1/11/18

DRAWING NO: RPLS0056

SHEET: 2 OF 3

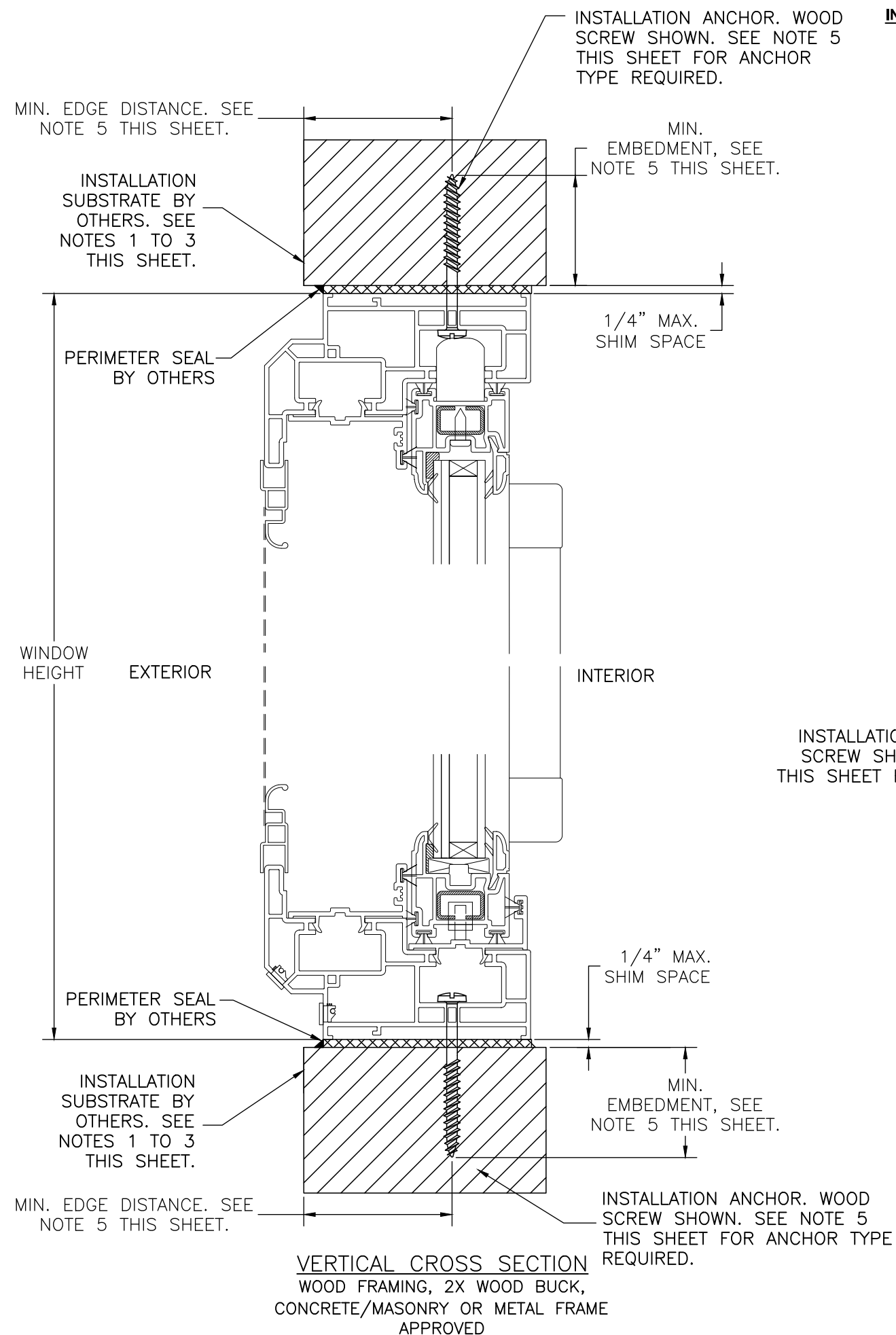
PREPARED BY:

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



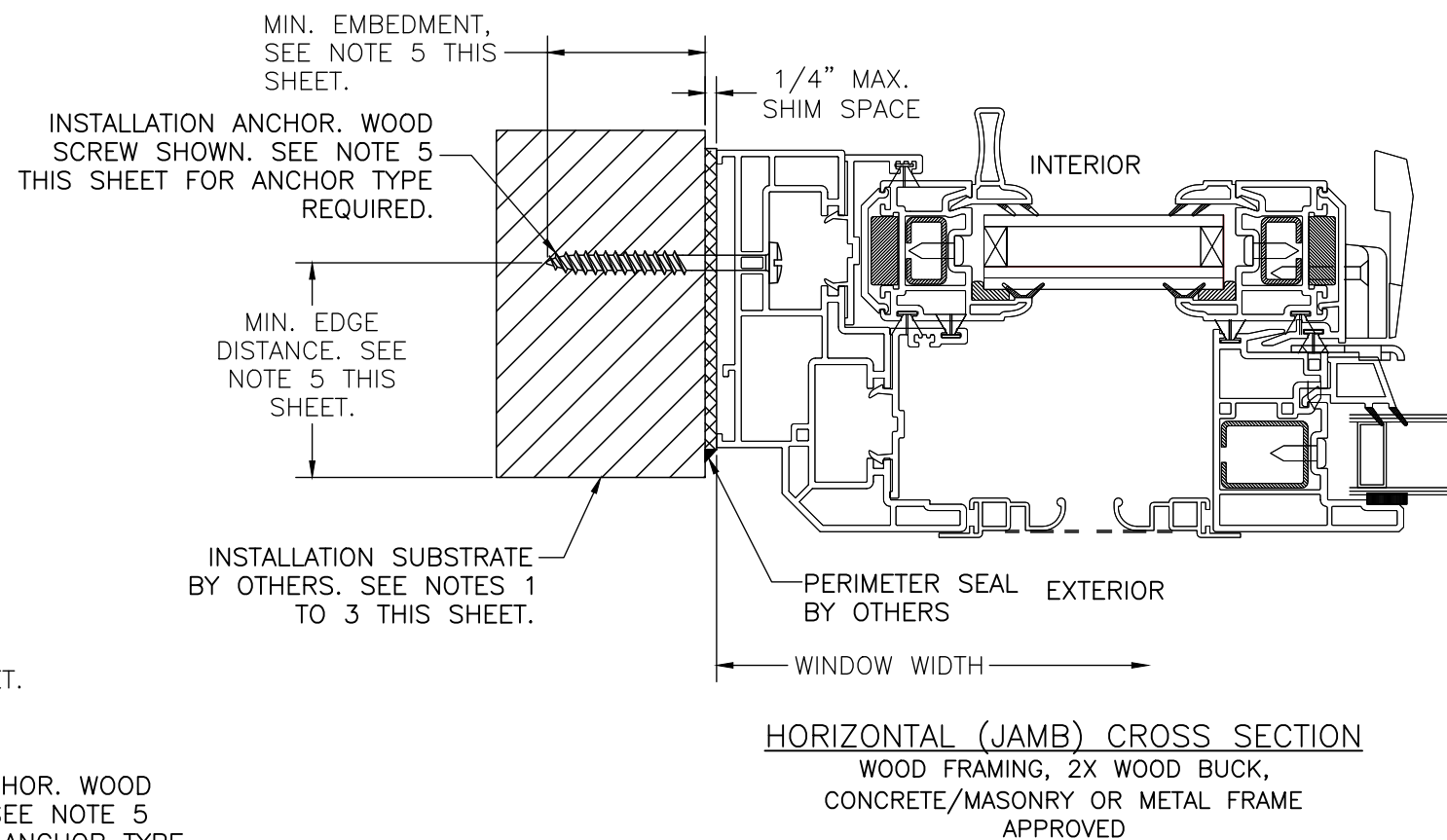
Digitally signed
by Robert J Amoruso
Date: 2018.02.02 13:32:41 -05'00'

PTC Product Design Group, LLC
PO Box 520775
Longwood, FL 32752-0775
321-690-1788 info@ptc-corp.com
FBPE Certificate of Authorization
No. 25935



INSTALLATION NOTES:

- APPROVED INSTALLATION SUBSTRATES INCLUDE THE FOLLOWING:
 - WOOD FRAMING
 - STEEL STUD FRAMING AND
 - CONCRETE AND/OR MASONRY
- SUBSTRATE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE/MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER CONCRETE/MASONRY IS OPTIONAL. WHERE 1X BUCK IS NOT USED, DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- SUBSTRATE ANCHORING METHODS:
 - FOR ANCHORING INTO CONCRETE/MASONRY USE 3/16" HEX HEAD TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO CONCRETE WITH 1 1/8" MINIMUM EDGE DISTANCE AND 1" MINIMUM EMBEDMENT INTO MASONRY WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
 - FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 PAN HEAD WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
 - FOR ANCHORING INTO METAL STRUCTURE USE #10 PAN OR HEX HEAD SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. ANCHOR LOCATIONS HAVE +/- 1" TOLERANCE.
- INTERIOR AND EXTERIOR FINISHES BY OTHERS. NOT SHOWN FOR CLARITY.
- PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED AND/OR SPECIFIED IN ACCORDANCE WITH ASTM E2112.



PROJECT #417-0906

REGENCY PLUS, INC.

2000 LOCUST GAP HIGHWAY

MT. CARMEL, PA 17851

TITLE: SERIES 5405 IMPACT VINYL HORIZONTAL SLIDING WINDOW
INSTALLATION DETAILS

DRAWN BY: RJA

SCALE: N.T.S.

PREPARED BY:

DATE: 1/11/18

DRAWING NO: RPLS0056

REV: C

SHEET: 3 OF 3

DESCRIPTION

REVISION

DATE

BY

1/22/18

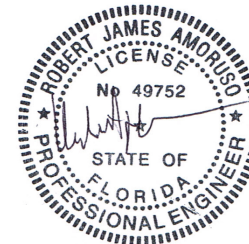
RJA

UPDATE TO CURRENT EDITION OF FBC

C

REV

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



Digitally signed
by Robert J
Amoruso

Date: 2018.02.02

13:33:51 -05'00'

PTC Product Design Group, LLC
PO Box 520775
Longwood, FL 32752-0775
321-690-1788 info@ptc-corp.com
FBPE Certificate of Authorization
No. 25935