

SIERRA PACIFIC WINDOWS

FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN TESTED ACCORDING TO THE FOLLOWING:
- 1.1. AAMA/WDMA/CSA 101/I.S.2/A440-11

1.2. ASTM E1886-13a

1.3. ASTM E1996-14
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT 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 ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.
8. THIS MULLION SYSTEM FOR USE WITH SIERRA PACIFIC'S FEELSAFE H3 2.0 DIRECT SET WINDOWS.
9. AN IMPACT PROTECTIVE DEVICE IS NOT REQUIRED WITH THIS PRODUCT WHEN USED IN WIND-BORNE DEBRIS REGIONS FOR WIND ZONE 3, MISSILE LEVEL D OR LESS.
10. WINDOW FRAME MATERIAL: VINYL, WOOD, AND 6063-T5.
11. GLAZING SHALL BE PER DETAIL LL ON SHEET 12. GLAZING WIND LOAD RESISTANCE EXCEEDS THE DESIGN PRESSURES SHOWN ON SHEET 12 IN ACCORDANCE WITH ASTM E1300-09a.
12. AS ALLOWED BY AAMA/WDMA/CSA 101/I.S.2/A440-11, SECTION 4.4.2.5, ANY GEOMETRIC SHAPE THAT FITS WITHIN THE TESTED SIZE AND SHAPE SHOWN FOR THE PRODUCT TYPE HEREING SHALL BE PERMITTED TO BE QUALIFIED BY THE SHAPE, PROVIDED THAT THE FRAME, SASH, LEAVES, PANELS, HARDWARE, HARDWARE LOCATION, COMPONENTS AS APPLICABLE, AND CONSTRUCTION REMAIN THE SAME.

SEE SHEET 11 FOR SINGLE AND MULTI-WIDE DESIGN PRESSURE PERFORMANCE RATING TABLE AND COMPARATIVE ANALYSIS RESULTS PER SECTION 1709 AND SECTION R609 OF THE CURRENT EDITION FLORIDA BUILDING CODE AND CURRENT EDITION FLORIDA RESIDENTIAL CODE RESPECTIVELY

SEE SHEET 12 FOR MULLION SPAN VS. LOAD WIDTH DESIGN PRESSURE CAPACITY CHARTS

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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR NAIL FIN INSTALLATION. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR STRAP INSTALLATION.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 11/16 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. SPACING BETWEEN SHIMS SHALL BE 6" MINIMUM TO 10" MAXIMUM PLACED AT THE INSTALLATION ANCHORS AND BETWEEN ANCHORS TO MEET REQUIRED SPACING.
5. WINDOW FRAME TO SUBSTRATE INSTALLATION

5.1. WINDOW FRAME TO SUBSTRATE INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WINDOW'S PRODUCT APPROVAL DOCUMENTS.

5.2. INSTALLATION OF ANCHOR CLUSTERS AT MULLED WINDOW COMBINATIONS SHALL BE AS FOLLOWS.

5.2.1. FIN INSTALLATION: FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/8" IS ACHIEVED. SILICON SEAL OVER SCREW HEADS.

5.2.2. FIN INSTALLATION: FOR INSTALLATION INTO METAL STUD USE #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWM SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/8" IS ACHIEVED. SILICON SEAL OVER SCREW HEADS.

5.2.3. STRAP INSTALLATION: FOR INSTALLATION INTO WOOD FRAMING USE TWO (2) #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" AND MINIMUM SPACING OF 1" BETWEEN ANCHORS IS ACHIEVED.

5.2.4. STRAP INSTALLATION: FOR INSTALLATION INTO METAL STUD USE TWO (2) #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWM SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" AND MINIMUM SPACING OF 1" BETWEEN ANCHORS IS ACHIEVED.

5.2.5. THROUGH FRAME INSTALLATION: FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" IS ACHIEVED.

5.2.6. THROUGH FRAME INSTALLATION: FOR INSTALLATION INTO METAL STUD USE #10 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWM SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" IS ACHIEVED.

5.2.7. THROUGH FRAME INSTALLATION: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO CONCRETE AND 1" INTO MASONRY. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 1-1/8" IN CONCRETE AND 2" IN MASONRY IS ACHIEVED.

6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.

7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

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 BY THE ANCHOR MANUFACTURER.

9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

9.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.

9.2. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

9.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT, DENSITY > 190 PCF

9.4. STEEL - MINIMUM YIELD STRENGTH OF 33 SKI. MINIMUM WALL THICKNESS OF 35.9 MIL (0.0478" or 18 GAUGE).

PROJECT # 0420-0909

SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
GENERAL NOTES, INSTALLATION NOTES & TABLE OF CONTENTS

PREPARED BY:

DRAWN BY:

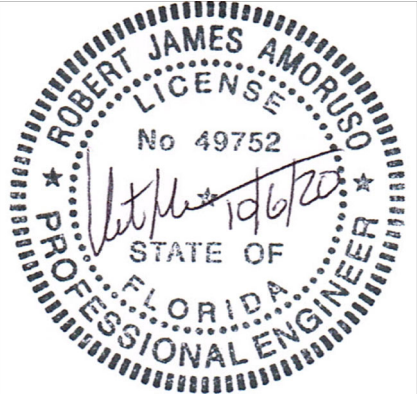
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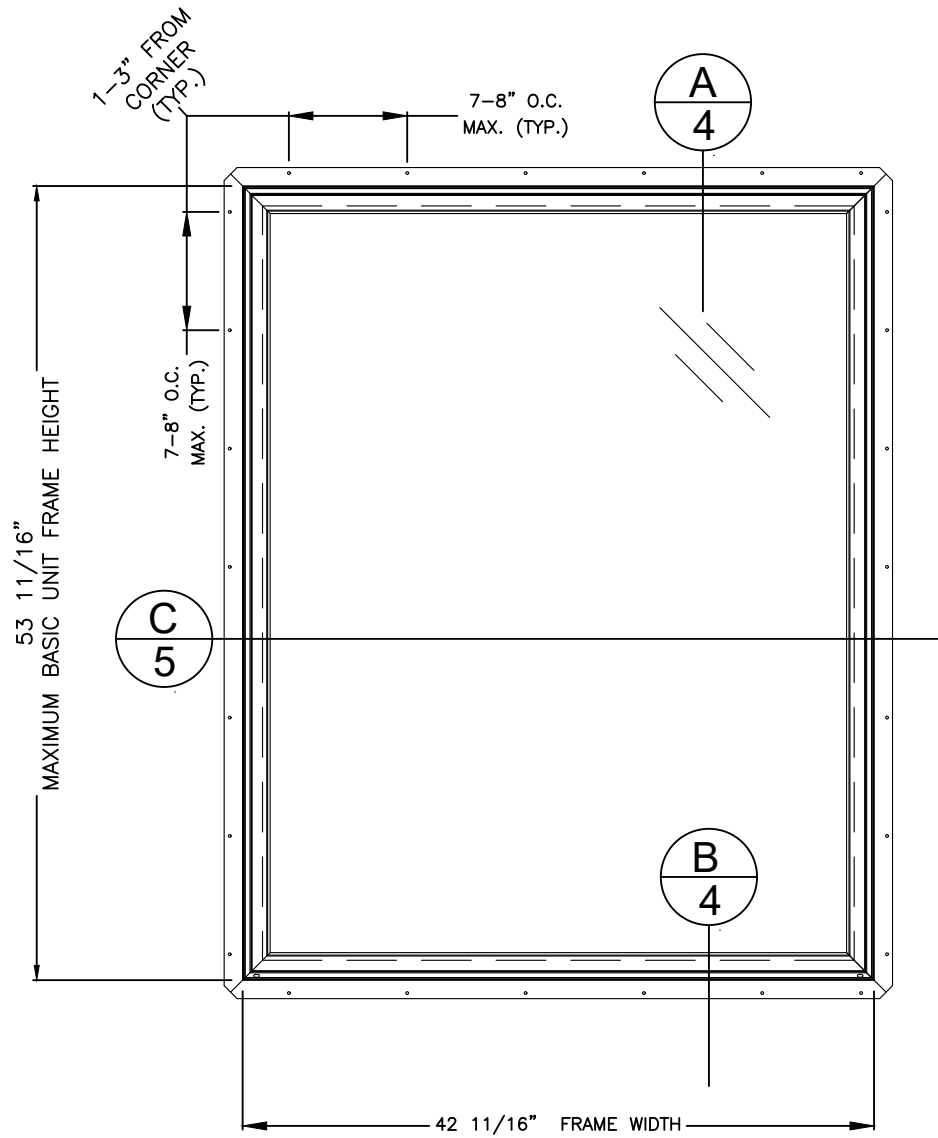
DRAWING NO:

SHEET:

PTC
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
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Robert J. Amoruso, P.E.
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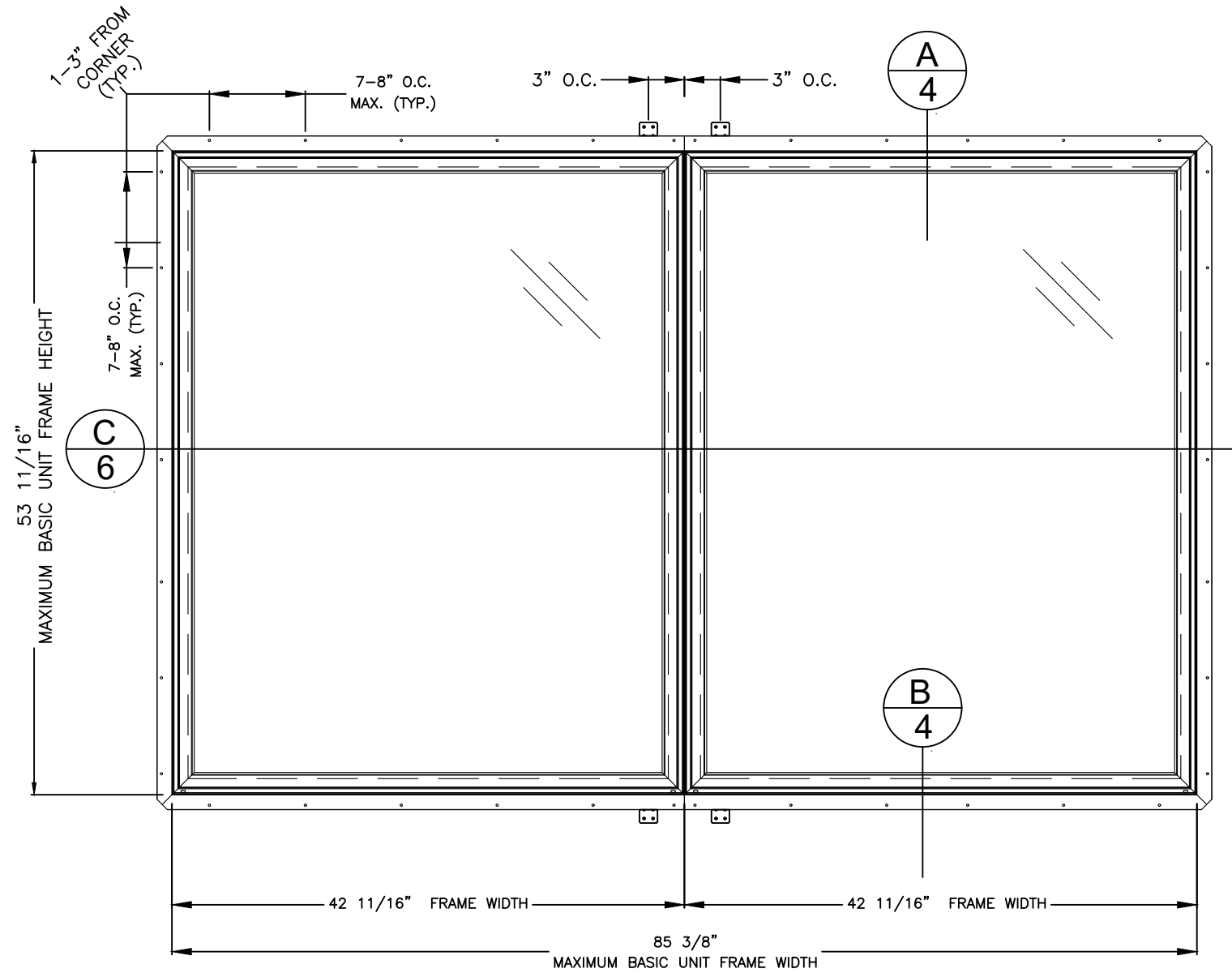




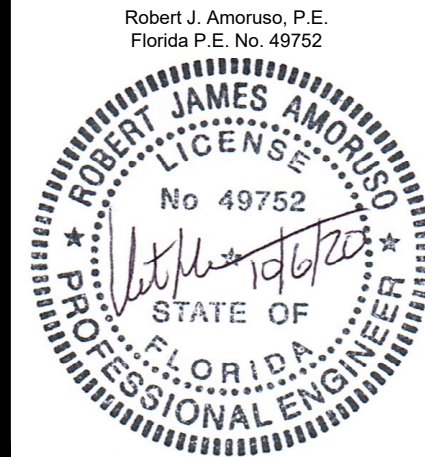
1-WIDE FEELSAFE H3 2.0 DIRECT SET WINDOW
EXTERIOR ELEVATION
NAILING FIN FRAME INSTALLATION

DAYLIGHT OPENING (D.L.O.)
WIDTH 39"
HEIGHT 49"

ONE CLIP AT THE HEAD AND SILL SPACED
76MM (3") ON EACH SIDE OF THE MULL
LOCATION FASTENED TO THE BUCK WITH TWO
#8 PPH SCREWS PER CLIP.



2-WIDE FEELSAFE H3 2.0 DIRECT SET WINDOW
EXTERIOR ELEVATION
NAILING FIN FRAME INSTALLATION

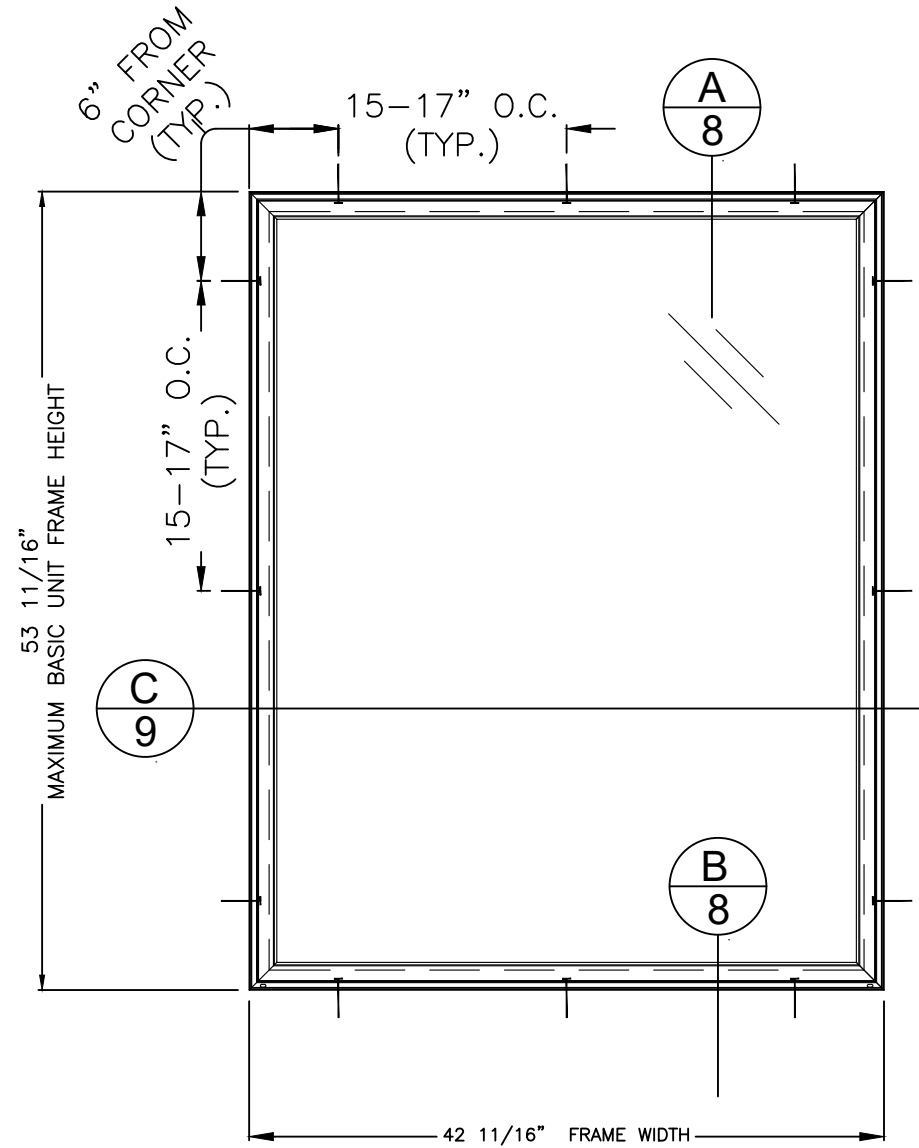


SIERRA PACIFIC WINDOWS
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RED BLUFF, CA 96080

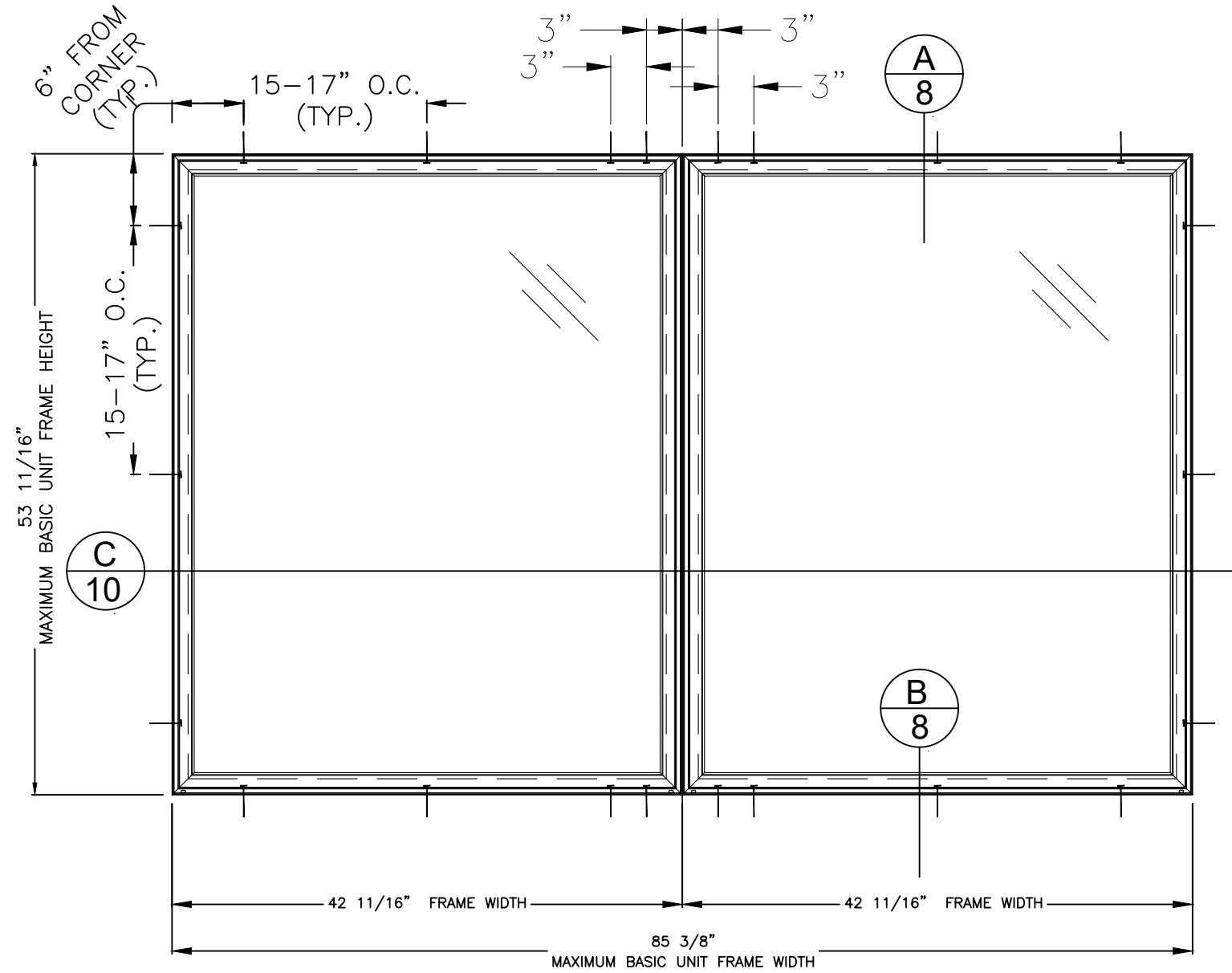
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SCALE: N.T.S.
DATE: 5/16/18
DRAWING NO: SPW-PTC0002
SHEET: 2 OF 12

PROJECT # 0420-0909			
		RJA	BY
		10/6/20	
	UPDATE TO CURRENT FBC	COMPARATIVE ANALYSIS RESULTS ADDED	DATE
	B	A	REV
		2/8/19	
		DESCRIPTION	



1-WIDE FEELSAFE H3 2.0 DIRECT SET WINDOW
EXTERIOR ELEVATION
THROUGH FRAME INSTALLATION



2-WIDE FEELSAFE H3 2.0 DIRECT SET WINDOW
EXTERIOR ELEVATION
THROUGH FRAME INSTALLATION

DAYLIGHT OPENING (D.L.O.)
WIDTH 39"
HEIGHT 49"

PROJECT # 0420-0909

SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
THROUGH FRAME ANCHORAGE ELEVATION

PREPARED BY: PTC
PO BOX 520775
LONGWOOD, FLORIDA 32752
FBPE CA NO 23355

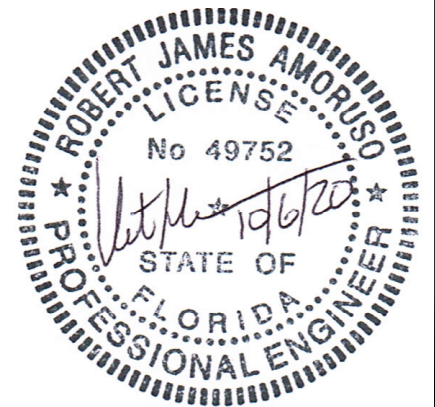
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SCALE: N.T.S.
REV: B

DATE: 5/16/18
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SHEET: 3 OF 12

REV: A
DESCRIPTION: COMPARATIVE ANALYSIS RESULTS ADDED

DATE: 2/8/19
BY: RJA

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

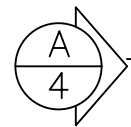
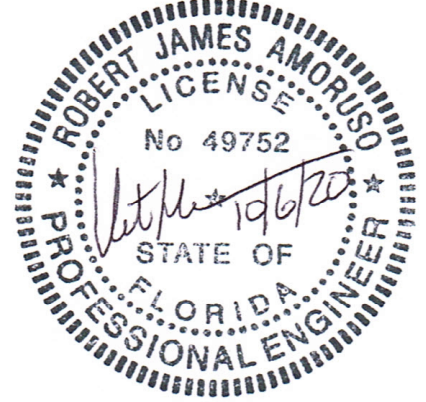


PROJECT # 0420-0909			
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		10/6/20	DATE
	UPDATE TO CURRENT FBC	COMPARATIVE ANALYSIS RESULTS ADDED	DESCRIPTION
B	A	REV	REV

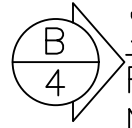
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PREPARED BY:	DRAWN BY:	DATE:	SHEET: 4 OF 12
	RJA	5/16/18	
SCALE:	N.T.S.	DRAWING NO:	
		SPW-PTC0002	
REV:	B		



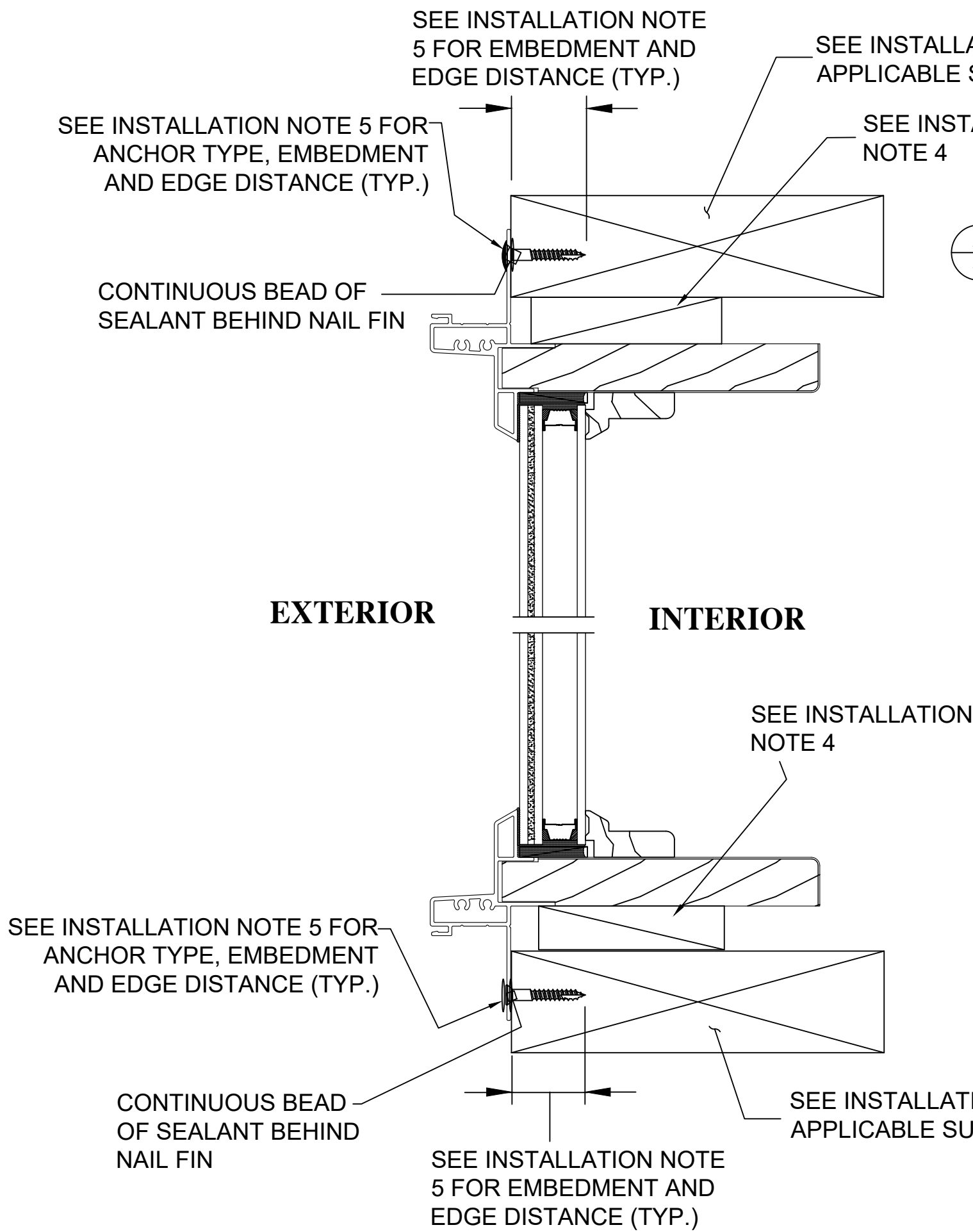
Robert J. Amoruso, P.E.
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HEAD DETAIL, 1 & 2-WIDE
FEELSAFE H3 2.0 DIRECT SET
NAILING FIN FRAME INSTALLATION



SILL DETAIL, 1 & 2-WIDE
FEELSAFE H3 2.0 DIRECT SET
NAILING FIN FRAME INSTALLATION



SEE INSTALLATION NOTE 5 FOR
ANCHOR TYPE, EMBEDMENT AND
EDGE DISTANCE (TYP.)

CONTINUOUS BEAD OF
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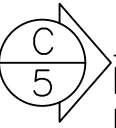
SEE INSTALLATION NOTE
5 FOR EMBEDMENT AND
EDGE DISTANCE (TYP.)

SEE INSTALLATION
NOTE 9 FOR
APPLICABLE
SUBSTRATES
(TYP.)

SEE INSTALLATION
NOTE 4

EXTERIOR

INTERIOR



JAMB DETAIL, 1-WIDE
FEELSAFE H3 2.0 DIRECT SET
NAILING FIN FRAME INSTALLATION

PROJECT # 0420-0909

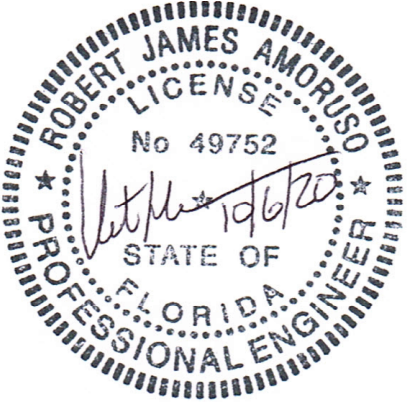
SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
DIRECT SET JAMB DETAIL, 1-WIDE, NAILING FIN FRAME INSTALLATION

PREPARED BY:	DRAWN BY:	DATE:	SHEET:
	RJA	5/16/18	5 OF 12
	SCALE:	DRAWING NO:	
	N.T.S.	SPW-PTC0002	
	REV:		
	B		



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



CONTINUOUS BEAD OF ____
SEALANT BEHIND NAIL FIN

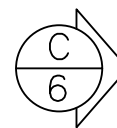
SEE INSTALLATION NOTE
5 FOR EMBEDMENT AND
EDGE DISTANCE (TYP.)

SEE INSTALLATION
NOTE 9 FOR
APPLICABLE
SUBSTRATES
(TYP.)

SEE INSTALLATION
NOTE 4

EXTERIOR

INTERIOR



JAMB DETAIL, 2-WIDE
 FEELSAFE H3 2.0 DIRECT SET
 NAILING FIN FRAME INSTALLATION

PROJECT # 0420-0909

UPDATE TO CURRENT FBC	10/6/20
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COMPARATIVE ANALYSIS RESULTS ADDED	2/8/19
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DATE	DESCRIPTION
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SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
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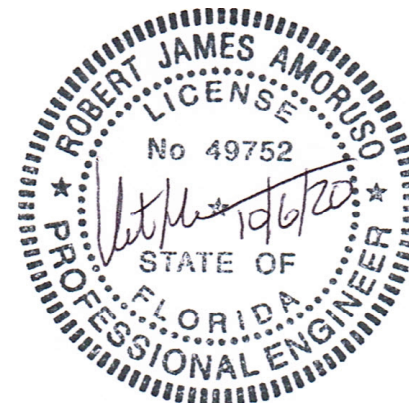
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SCALE:	N.T.S.	DRAWING NO:	SPW-PTC0002
REV:		SHEET:	

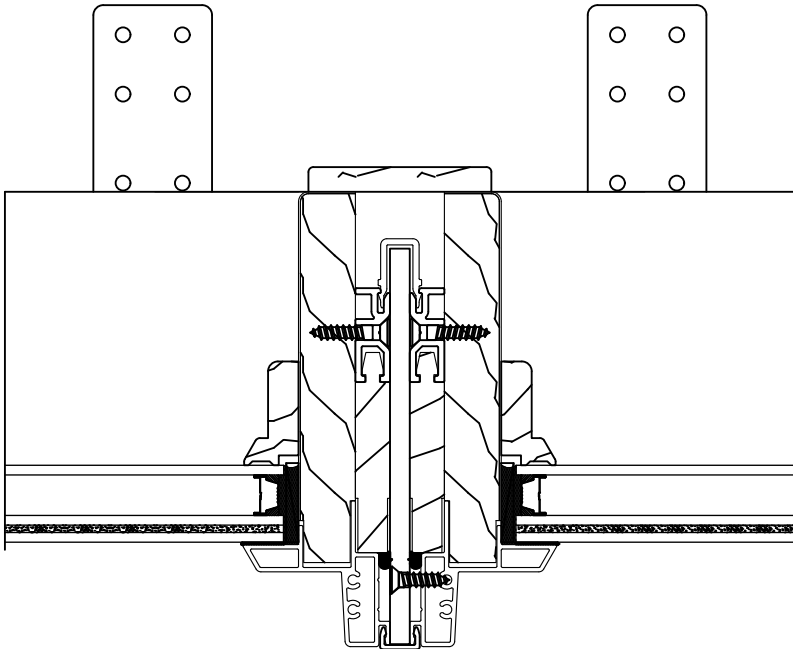
PREPARED BY: **[REDACTED]**

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PO BOX 590775
Phone: 321.690.1788

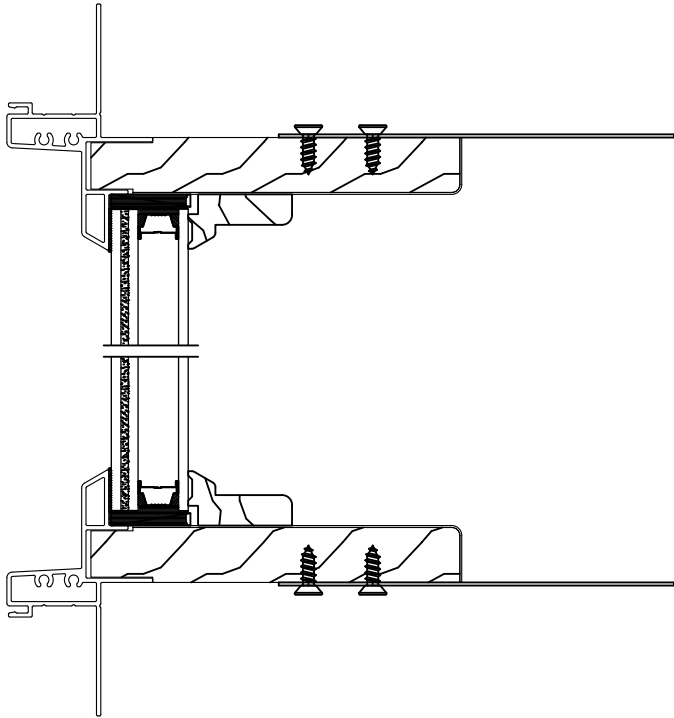
Robert J. Amoruso, P.E.
Florida P.E. No. 49752



ONE CLIP AT THE HEAD AND SILL SPACED 76MM (3")
ON EACH SIDE OF THE MULL LOCATION FASTENED TO
THE BUCK WITH TWO #8 PPH SCREWS PER CLIP.

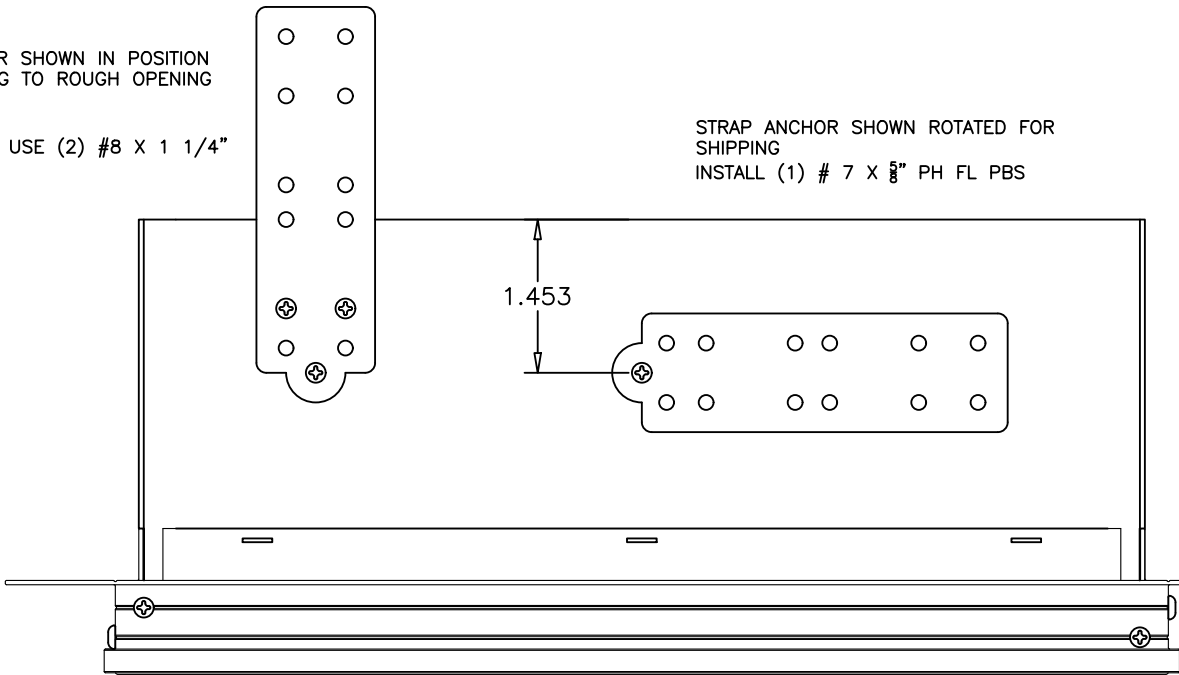


STRAP ANCHOR DETAIL, 2-WIDE
FEELSAFE H3 2.0 DIRECT SET
NAILING FIN FRAME INSTALLATION
STRAP ANCHOR USED AT MULLION

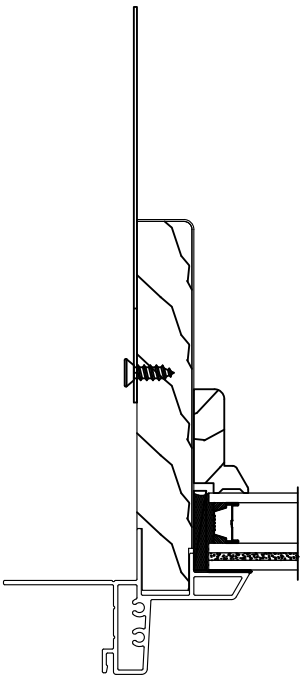


STRAP ANCHOR SHOWN IN POSITION
FOR FASTENING TO ROUGH OPENING

INSTALLER TO USE (2) #8 X 1 1/4"



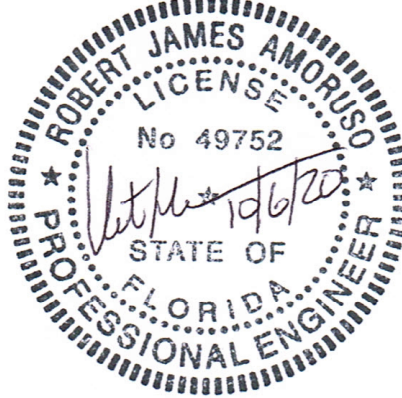
STRAP ANCHOR SHOWN ROTATED FOR
SHIPPING
INSTALL (1) # 7 X 8" PH FL PBS



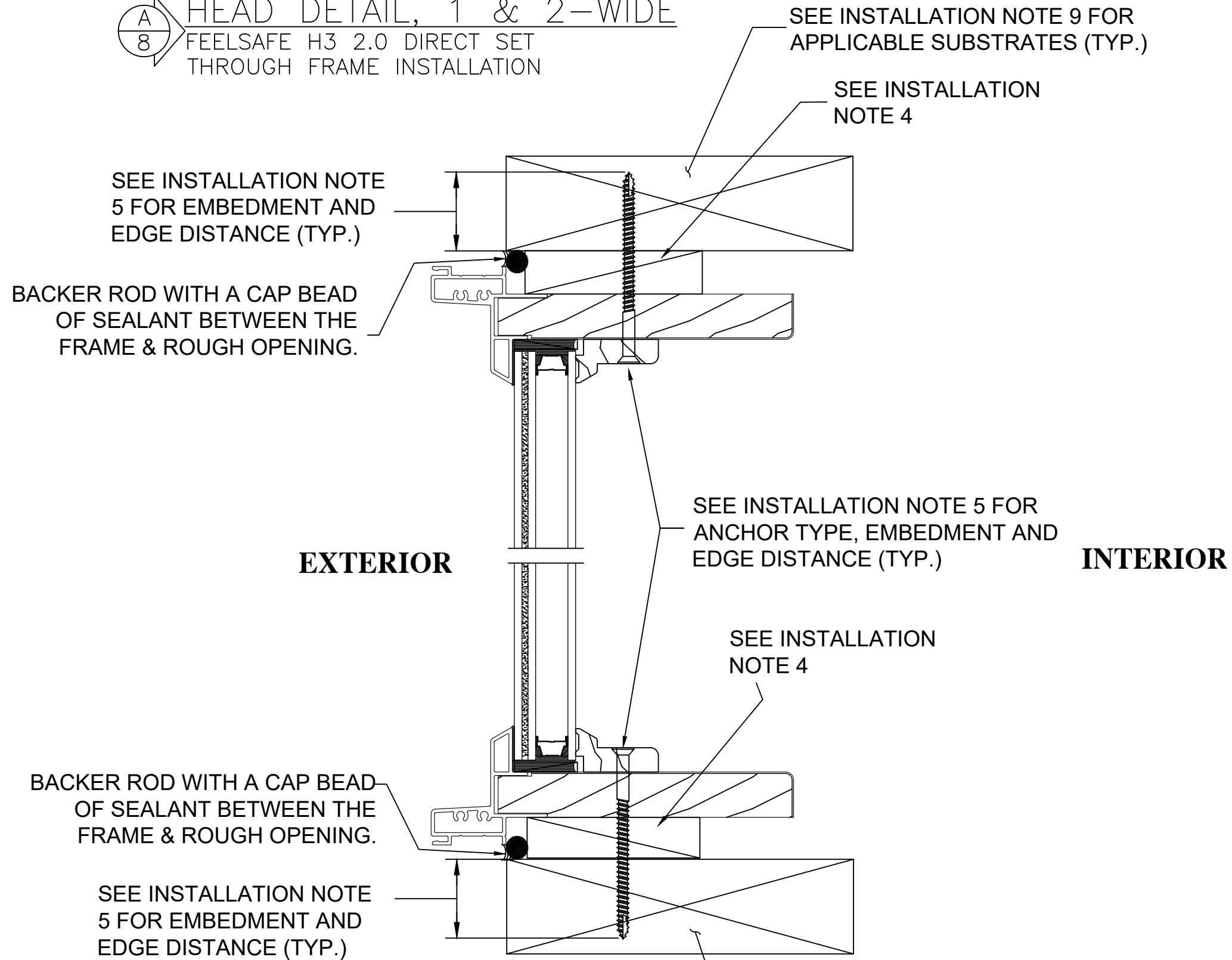
PROJECT # 0420-0909				RJA		BY
				10/6/20		
		UPDATE TO CURRENT FBC	COMPARATIVE ANALYSIS RESULTS ADDED	2/8/19		
	B	A	REV	DESCRIPTION	DATE	

SIERRA PACIFIC WINDOWS 11605 READING ROAD, PO BOX 8489 RED BLUFF, CA 96080		DATE: 5/16/18		DRAWING NO: SPW-PTC0002		SHEET: 7 OF 12	
TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE) STRAP ANCHOR DETAIL - FIN FRAME INSTALLATION		DRAWN BY: RJA		SCALE: N.T.S.		REV: B	
PREPARED BY:		DATE: 5/16/18		DRAWING NO: SPW-PTC0002		SHEET: 7 OF 12	
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE CA NO 23555		Phone: 321.690.1788 Fax: 321.690.1789 Email: info@ptc-corp.com					

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Florida P.E. No. 49752

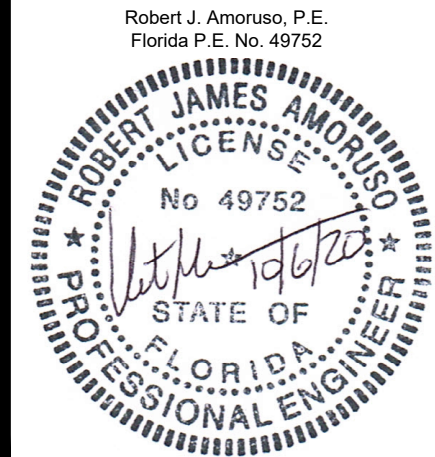


HEAD DETAIL, 1 & 2-WIDE
FEELSAFE H3 2.0 DIRECT SET
THROUGH FRAME INSTALLATION



SILL DETAIL, 1 & 2-WIDE
FEELSAFE H3 2.0 DIRECT SET
THROUGH FRAME INSTALLATION

SEE INSTALLATION NOTE 9 FOR
APPLICABLE SUBSTRATES (TYP.)



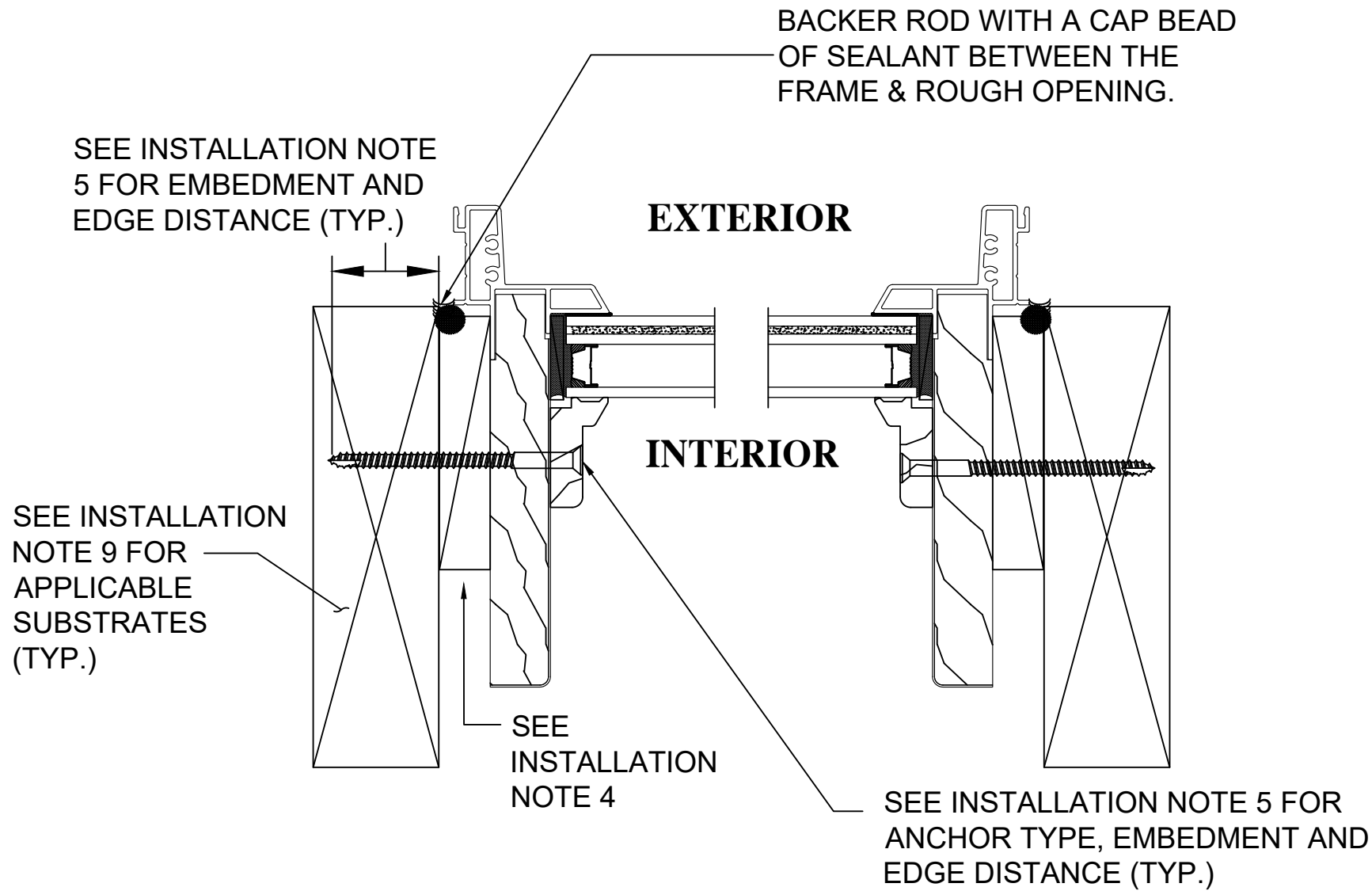
SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

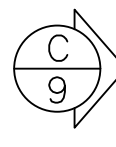
TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
DIRECT SET HEAD & SILL DETAIL, 1 & 2WIDE, THROUGH FRAME INSTALLATION

PREPARED BY: RJA
SCALE: N.T.S.
REV: B
DATE: 5/16/18
DRAWING NO: SPW-PTC0002
SHEET: 8 OF 12

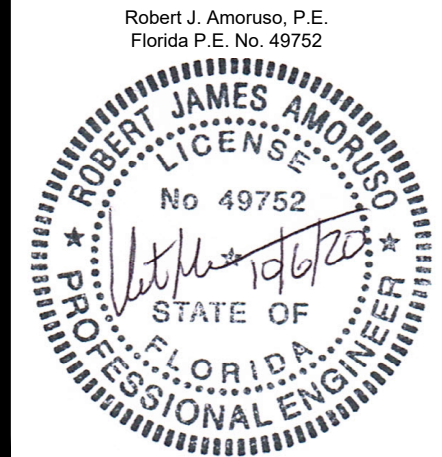
PROJECT # 0420-0909

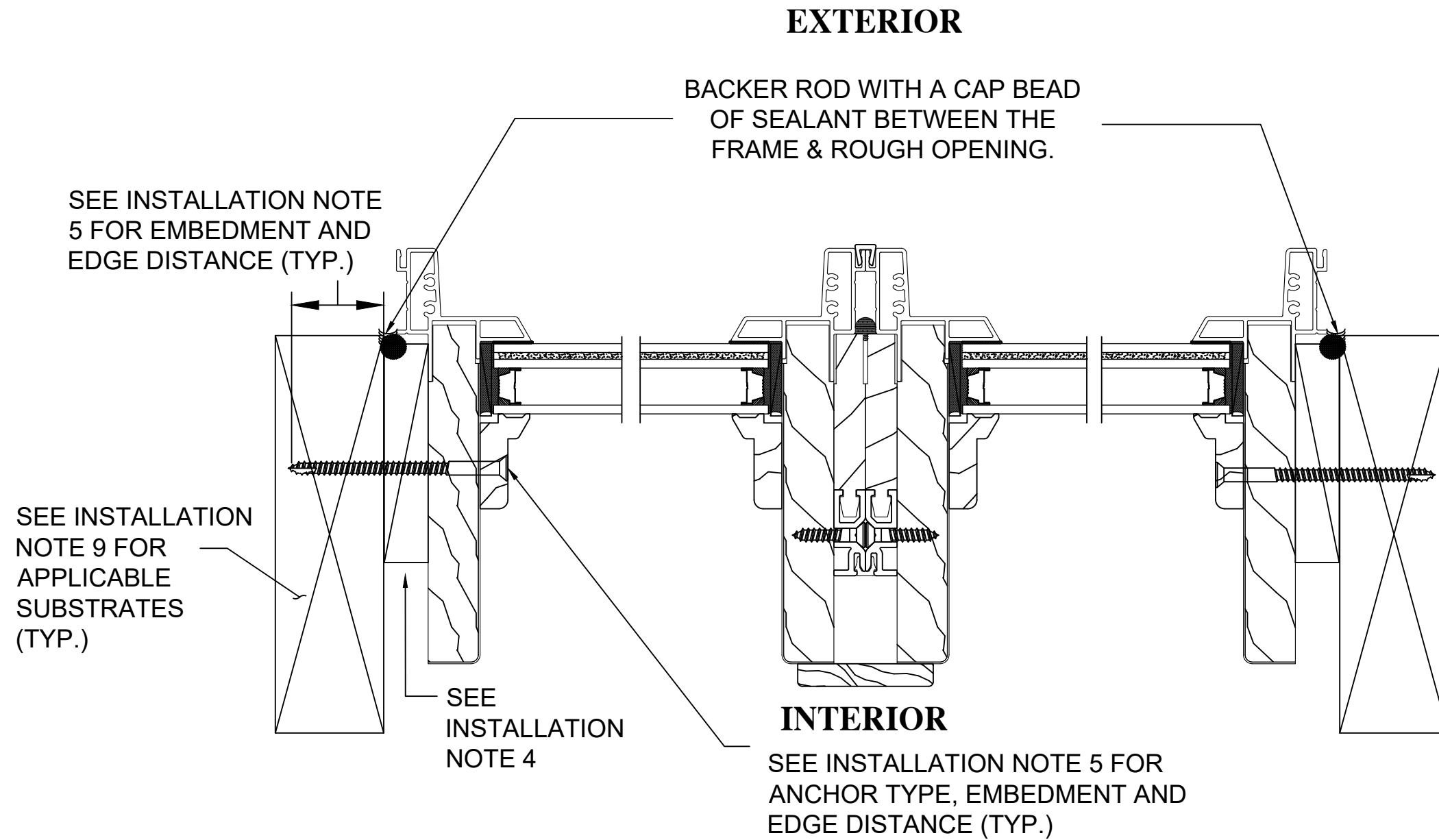
REV	DESCRIPTION	DATE	BY
B	UPDATE TO CURRENT FBC	10/6/20	RJA
A	COMPARATIVE ANALYSIS RESULTS ADDED	2/8/19	RJA



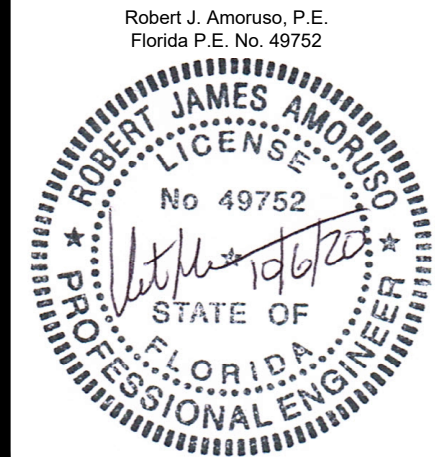

JAMB DETAIL, 1-WIDE
 FEELSAFE H3 2.0 DIRECT SET
 THROUGH FRAME INSTALLATION

PROJECT # 0420-0909				SIERRA PACIFIC WINDOWS 11605 READING ROAD, PO BOX 8489 RED BLUFF, CA 96080			
				TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE) DIRECT SET JAMB DETAIL, 1-WIDE, THROUGH FRAME INSTALLATION			
				PREPARED BY:	DRAWN BY:	DATE:	
					RJA	5/16/18	
				SCALE:	N.T.S.	DRAWING NO:	
				REV:	B	SPW-PTC0002	
						SHEET:	9 OF 12
						REV:	
						DESCRIPTION	
						DATE	
						BY	





JAMB DETAIL, 2-WIDE
 FEELSAFE H3 2.0 DIRECT SET
 THROUGH FRAME INSTALLATION



PROJECT # 0420-0909					
B	UPDATE TO CURRENT FBC	10/6/20	R/JA		
A	COMPARATIVE ANALYSIS RESULTS ADDED	2/8/19	R/JA		
REV	DESCRIPTION	DATE	BY		

SIERRA PACIFIC WINDOWS 11605 READING ROAD, PO BOX 8489 RED BLUFF, CA 96080		TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE) DIRECT SET JAMB DETAIL, 2-WIDE, THROUGH FRAME INSTALLATION	
DRAWN BY:	R/JA	DATE:	5/16/18
SCALE:	N.T.S.	DRAWING NO:	SPW-PTC0002
REV:	B	SHEET:	10 OF 12

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PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752		

DESIGN PRESSURE PERFORMANCE RATING AND COMPARATIVE ANALYSIS RESULTS

DESIGN PRESSURE PERFORMANCE RATING		
MAXIMUM SIZE (NOMINAL)	DESIGN PRESSURE (PSF)	IMPACT RATING
43" x 53" (1-WIDE)	+50/-60 psf	MISSILE LEVEL D WIND ZONE 3
86" x 53" (2-WIDE)	+50/-60 psf	MISSILE LEVEL D WIND ZONE 3
MAXIMUM D.L.O. SIZE: 39" x 49"		

Notes:

1. The Comparative Analysis results depicted here are based on Section 1709 and Section R609 of the Current Edition Florida Building Code and Current Edition Florida Residential Code respectively. Comparative Analysis results are in conformance with AAMA/WDMA/CSA 101/I.S.2/A440-11, WDMA I.S. 11-13 and AAMA 2502-07.
2. The results depicted are for frame areas that are equal to or less than the frame area of the test unit (43" x 53" individual size, 15.8 SF frame area).
3. The results depicted are based on the structural loading test results of +50/-60 psf at a tested size of 43" x 53" 1-wide window. The tested water resistance design pressure is +50 psf. The tested impact cyclic loading design pressure is +50/-60 psf.

3.1. The design pressures are limited to +50/-60 psf.
4. Comparative Analysis results applicability. See Note 5 for Mull Span vs. Load Width results applicability.

4.1. The results depicted are for a 1-wide window but are applicable to 2-wide windows. A 2-wide window comprised of two 43" x 53" nominal mulled windows was tested thereby enveloping a 1-wide window in this analysis.

4.2. 2-wide windows will be the window height depicted in the table. 2-wide windows will be the window width depicted in the table multiplied by 2.

4.3. 2-wide window individual bay widths can vary (i.e., not equal to each other), but cannot exceed the individual window width shown individually or the frame area of the test unit shown in note 2 above.
5. Mull Span vs. Load Width results applicability.

5.1. Mull Span vs. Load Width results shown on Sheet 12 are applicable to the 2-wide window only.

5.2. The Comparative Analysis results on Sheet 11 must be compared to the Mull Span vs. Load Width results shown on Sheet 12 for 2-wide windows. The lower of the results shall govern for the 2-wide window size construed.
- | Size | | Positive
DP (psf) | Negative
DP (psf) |
|-------|--------|----------------------|----------------------|
| Width | Height | | |
| 24 | 52 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 36 | | 50 | 60 |
| 40 | | 50 | 60 |
| 42 | | 50 | 60 |
| 24 | 53 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 36 | | 50 | 60 |
| 40 | | 50 | 60 |
| 42 | | 50 | 60 |
| 24 | 56 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 36 | | 50 | 60 |
| 40 | | 50 | 60 |
| 42 | | 50 | 60 |
| 24 | 60 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 36 | | 50 | 60 |
| 24 | 64 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 24 | 66 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 24 | 70 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
| 24 | 72 | 50 | 60 |
| 30 | | 50 | 60 |
| 32 | | 50 | 60 |
- PROJECT # 0420-0909

SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
PERFORMANCE RATING AND COMPARATIVE ANALYSIS RESULTS

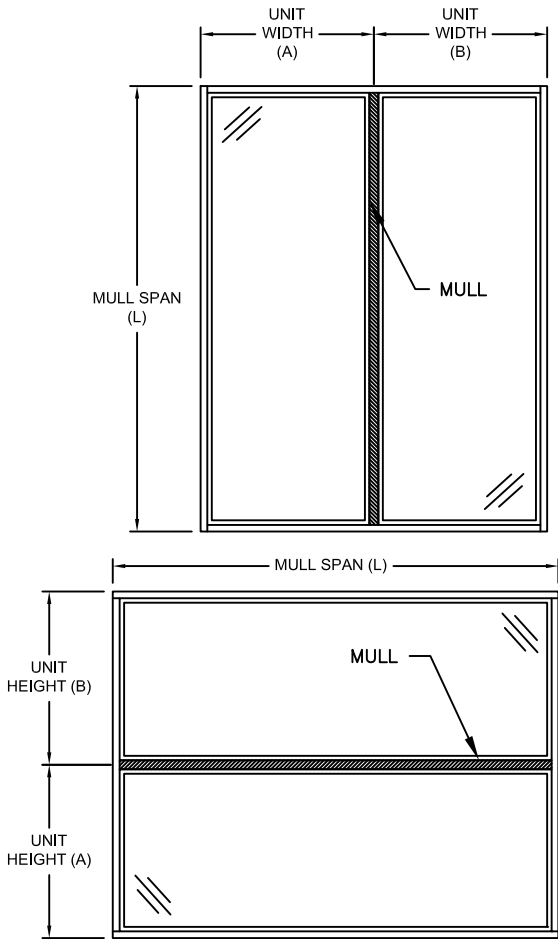
PREPARED BY: DRAWN BY: RJA DATE: 5/16/18
SCALE: N.T.S. DRAWING NO: SPW-PTC0002
REV: B SHEET: 11 OF 12

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TWO-WAY
MULLION
CONFIGURATION



Maximum Design Pressure Capacity Chart (psf) - Box Mullion															
Mull Span (in)	Load Width (in)	Design pressure (psf)		Mull Span (in)	Load Width (in)	Design pressure (psf)		Mull Span (in)	Load Width (in)	Design pressure (psf)		Mull Span (in)	Load Width (in)	Design pressure (psf)	
		Positive	Negative			Positive	Negative			Positive	Negative			Positive	Negative
≤ 52	to 96	50	-60												
53	24	50	-60	66	24	36	-43	78	24	21	-26	90	24	14	-17
	30	50	-60		30	30	-36		30	18	-21		30	11	-14
	36	50	-60		36	26	-31		36	15	-18		36	10	-11
	43	50	-60		43	23	-27		43	13	-16		43	8	-10
	44	48	-58		44	22	-27		44	13	-15		44	8	-10
	48	47	-57		48	21	-26		48	12	-15		48	8	-9
	54	47	-56		54	20	-24		54	11	-13		54	7	-8
	60	47	-56		60	20	-24		60	11	-13		60	6	-8
	66	47	-57		66	19	-23		66	10	-12		66	6	-7
	72	47	-57		72	19	-23		72	10	-12		72	6	-7
	78	48	-57		78	20	-23		78	10	-12		78	6	-7
	84	48	-57		84	20	-24		84	10	-12		84	6	-7
	96	48	-57		96	20	-24		96	10	-12		96	6	-7
60	24	48	-58	72	24	28	-33	84	24	17	-21	96	24	11	-14
	30	40	-48		30	23	-27		30	14	-17		30	9	-11
	36	35	-42		36	19	-23		36	12	-14		36	8	-9
	42	32	-38		42	17	-21		42	10	-17		43	7	-8
	43	32	-38		43	17	-20		43	10	-12		44	7	-8
	48	30	-36		48	16	-19		48	9	-11		48	6	-7
	54	29	-35		54	15	-18		54	9	-10		54	6	-7
	60	28	-34		60	14	-17		60	8	-10		60	5	-6
	66	28	-34		66	14	-17		66	8	-9		66	6	-6
	72	29	-34		72	14	-16		72	8	-9		72	5	-6
	78	29	-35		78	14	-16		78	7	-9		78	5	-5
	84	29	-35		84	14	-17		84	7	-9		84	4	-5
	96	29	-35		96	14	-17		96	7	-9		96	4	-5

DESIGN PRESSURE CAPACITY CHART USAGE

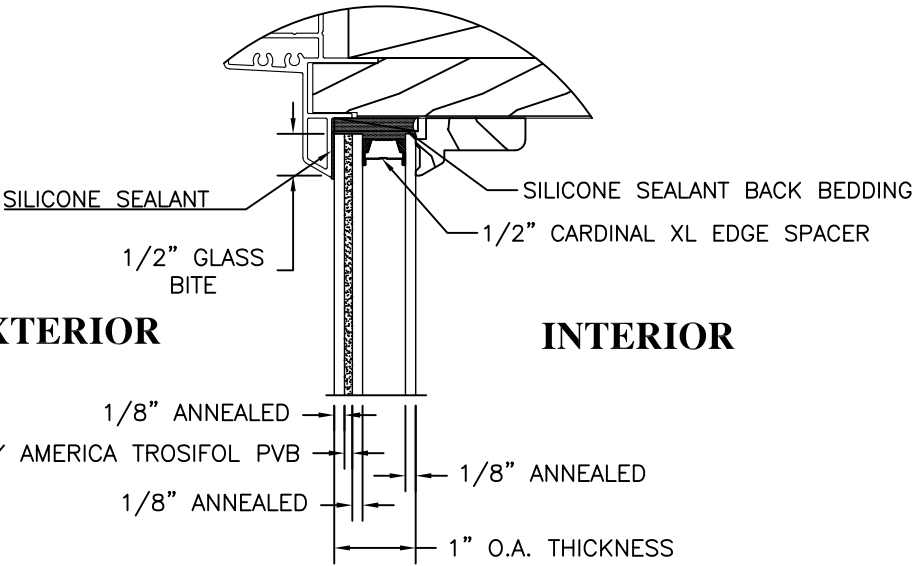
LOAD (TRIBUTARY) WIDTH = (A + B)/2

- ENTER TABLE WITH MULL SPAN (L) AND LOAD WIDTH (LW) THAT IS EQUAL TO MULLED ASSEMBLY.
- IF BETWEEN MULL SPAN AND LOAD WIDTH IN TABLE, USE NEXT LARGEST VALUES.
- INTERPOLATION BETWEEN MULL SPAN AND LOAD WIDTH VALUES IS ALLOWED.

NOTES

- APPROVED FENESTRATION TYPE IS THE FEELSAFE H3 2.0 DIRECT SET (DS).
- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS ON SHEETS 2 TO 10.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE ON THIS SHEET) OR INDIVIDUAL WINDOW PERFORMANCE RATINGS (COMPARATIVE ANALYSIS RESULTS AND DESIGN PRESSURE PERFORMANCE RATING TABLE ON SHEET 11).
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.
- SEE SHEET 11 FOR COMPARATIVE ANALYSIS RESULTS. FRAME AREAS OF CONSTRUED UNITS MUST BE EQUAL TO OR LESS THAN THE FRAME AREA OF THE TEST UNIT (43" X 53" INDIVIDUAL SIZE, 15.8 SF FRAME AREA).

DESIGN PRESSURE PERFORMANCE RATING		
MAXIMUM SIZE (NOMINAL)	DESIGN PRESSURE (PSF)	IMPACT RATING
43" x 53" (1-WIDE)	+50/-60 psf	MISSILE LEVEL D WIND ZONE 3
86" x 53" (2-WIDE)	+50/-60 psf	MISSILE LEVEL D WIND ZONE 3
MAXIMUM D.L.O. SIZE: 39" x 49"		



GLAZING DETAIL "LL"

PROJECT # 0420-0909

SIERRA PACIFIC WINDOWS
11605 READING ROAD, PO BOX 8489
RED BLUFF, CA 96080

TITLE: FEELSAFE H3 2.0 DIRECT SET 43" X 53" (1-WIDE/2-WIDE)
PERFORMANCE RATING, GLAZING DETAIL, MULL SPAN VS. LOAD WIDTH TABLE

PREPARED BY:

DRAWN BY: RJA

DATE: 5/16/18

SCALE: N.T.S.

DRAWING NO: SPW-PTC0002

REV: B

SHEET: 12 OF 12

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