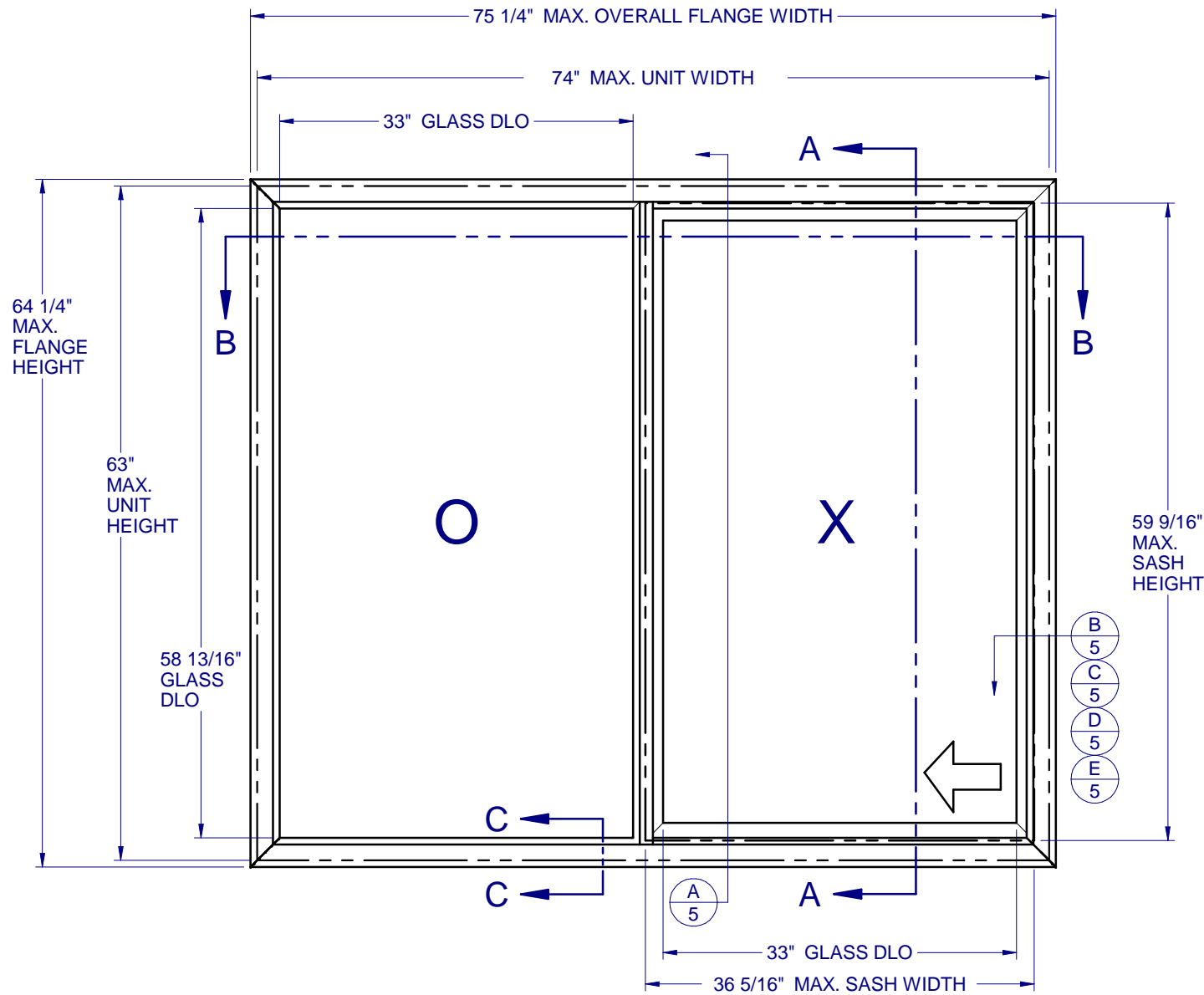


HORIZONTAL SLIDER - LARGE MISSILE IMPACT



GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE FLORIDA BUILDING CODE (FBC), CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND IS RATED FOR WIND ZONE 4 MISSILE LEVEL D IMPACT USE AS DEFINED IN ASTM E 1996 PER THE FBC.
2. GLAZING OPTIONS: (SEE SHEET 2)
3. CONFIGURATIONS: "OX", "XO".
4. DESIGN PRESSURE RATING:
 -NEGATIVE DESIGN LOADS BASED ON, TESTED PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
 -POSITIVE DESIGN LOADS BASED ON, TESTED PRESSURE, WATER INFILTRATION TEST PRESSURE AND GLASS TABLES ASTM E-1300-04e01/09.
5. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEET 5 FOR ANCHOR DETAILS. WINDLOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
6. PRODUCT APPROVED FOR IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED. THE IMPACT ROTARY LOCKS ARE INTENDED TO BE LEFT UNLATCHED DURING NORMAL OPERATION OF THIS PRODUCT, BUT MUST BE ENGAGED PRIOR TO EXPOSURE TO HURRICANE WINDS AND FLYING DEBRIS.
7. ALL FRAMES AND VENTS FULLY WELDED. SMALL JOINT SEAM SEALANT USED AT FIXED MEETING RAIL AND HEAD/SILL.
8. SERIES / MODEL DESIGNATION HS-8200.
9. THE DESIGNATION X AND O STAND FOR THE FOLLOWING:
 X = OPERABLE SASH, O = FIXED SASH
10. SECTION CALLOUTS APPLY TO ALL ELEVATIONS IN A SIMILAR LOCATION.
11. EXTERNAL WEEP SLOT = 1/4" x 1" LOCATED 4" FROM BOTH ENDS.



**520 PVC
SLIDING WINDOW
IMPACT**

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FLORIDA APPROVAL NO.:
33558



8/15/2023

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 FL PE # 58201
 Turner Engineering & Consulting, Inc.
 2428 Old Natchez Trc Trl
 Camden, TN 38320
 PH. 941-380-1574

SHEET DESCRIPTION:
GENERAL NOTES AND ELEVATIONS

| | |
|-------------------|--------------------|
| DRAWN BY: MCS | DATE: 7/31/2023 |
| DWG #: CWS-871 | REV.: E |
| SCALE: 1:15 | SHEET 1 OF 5 |

TABLE OF CONTENTS

| | |
|--------------------------------------|---|
| GENERAL NOTES & ELEVATIONS..... | 1 |
| SECTION VIEWS & GLAZING DETAILS..... | 2 |
| BOM & EXTRUSIONS..... | 3 |
| ANCHOR SCHEDULE & NOTES..... | 4 |
| INSTALLATION DETAILS..... | 5 |

| MAX. UNIT SIZE | DESIGN PRESSURE RATING | IMPACT RATING |
|----------------|------------------------|----------------------|
| 74" x 63" | +/- 60 PSF | LARGE MISSILE IMPACT |

**520 PVC
 SLIDING WINDOW
 IMPACT**

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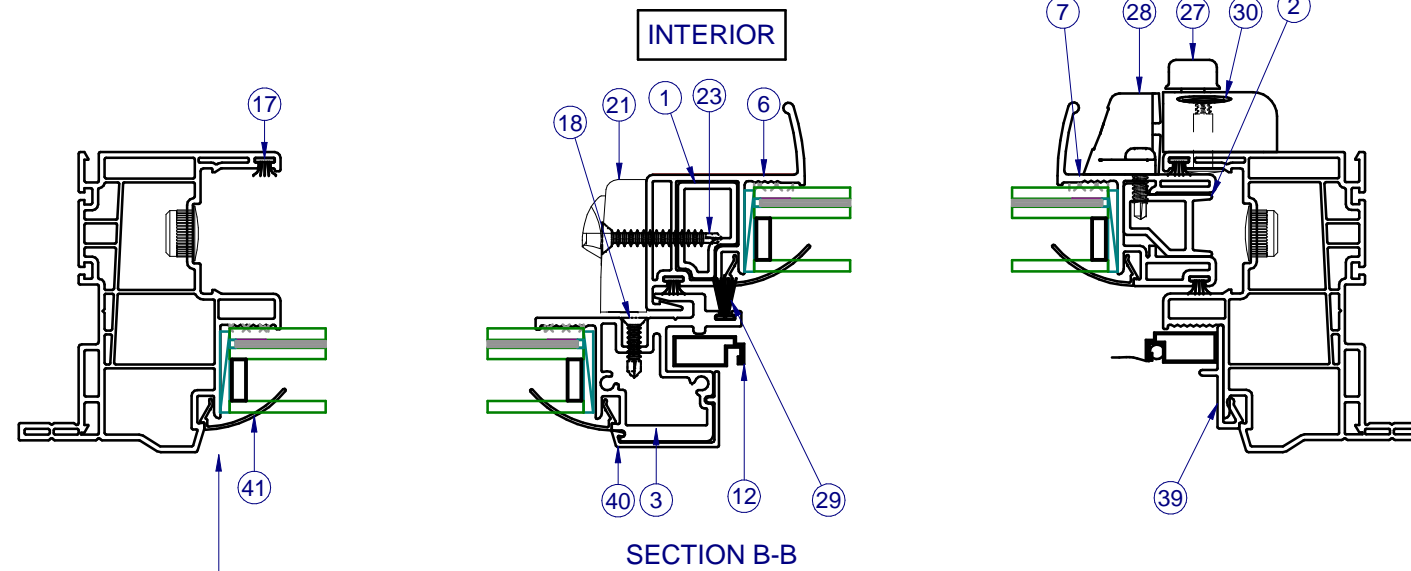
8/15/2023

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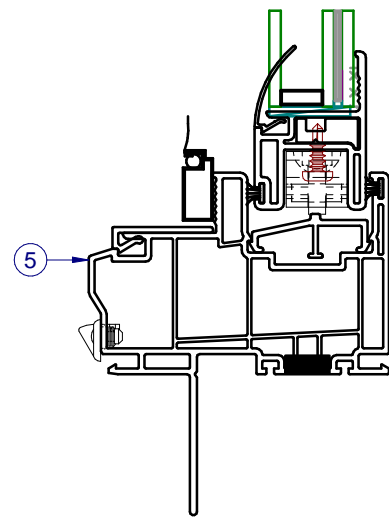
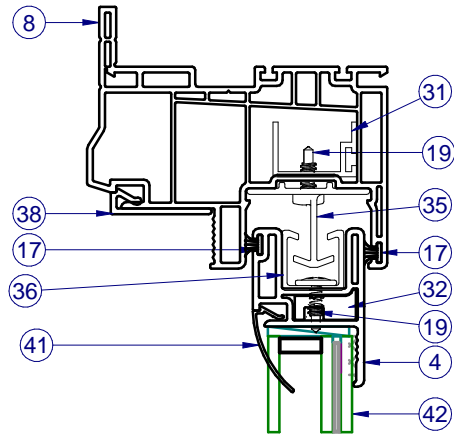
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**SECTION VIEWS AND
 GLAZING DETAIL**

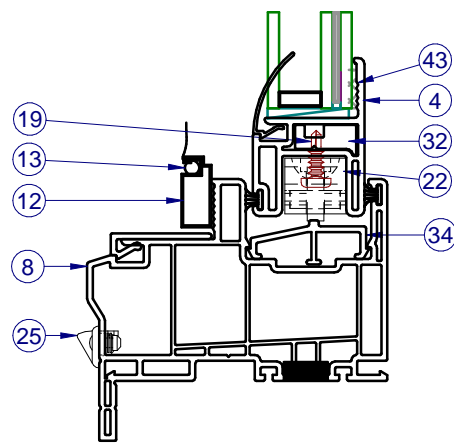
| | |
|--------------------------|---------------------------|
| DRAWN BY: MCS | DATE: 7/31/2023 |
| DWG #: CWS-871 | REV.: E |
| SCALE: 1:2 | SHEET 2 OF 5 |



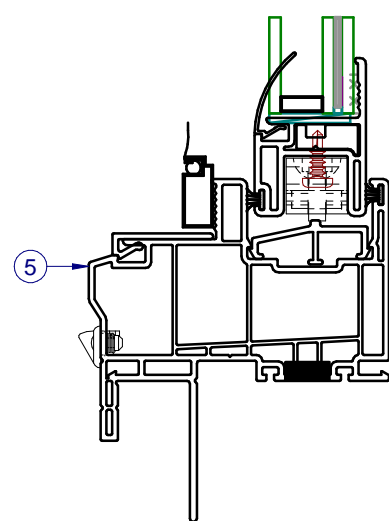
NOTE: FIXED LITE AT HEAD AND SILL IS SIMILAR.



SECTION C-C
 ALTERNATE FIN ONLY FRAME

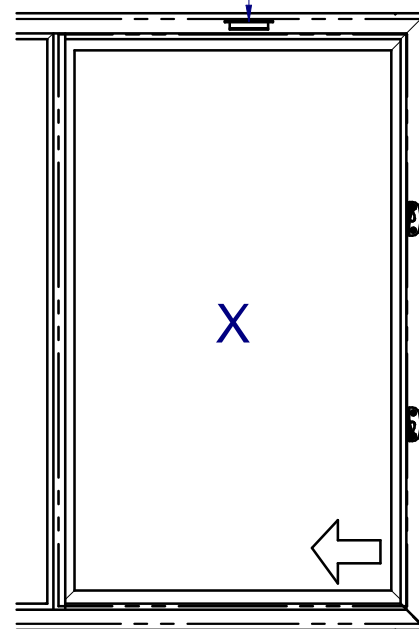


SECTION A-A



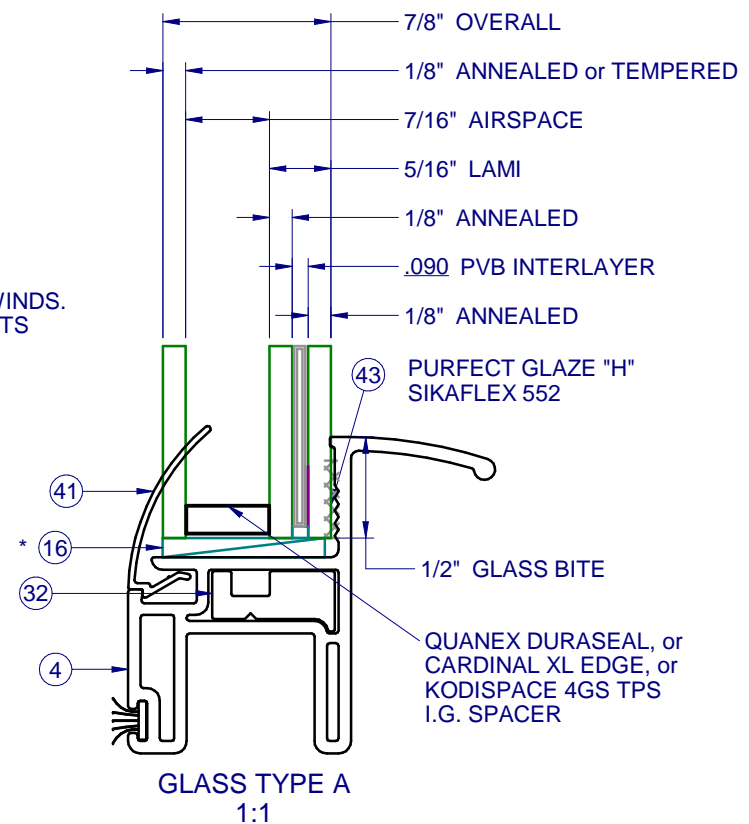
SECTION C-C
 ALTERNATE FIN FRAME

HEAD IMPACT HOOK (TYP.)
 MIDSPAN OF SASH
 (ITEMS 35 & 36)



HEAD IMPACT HOOK AND
 JAMB ROTARY LOCK LOCATIONS
 1:20

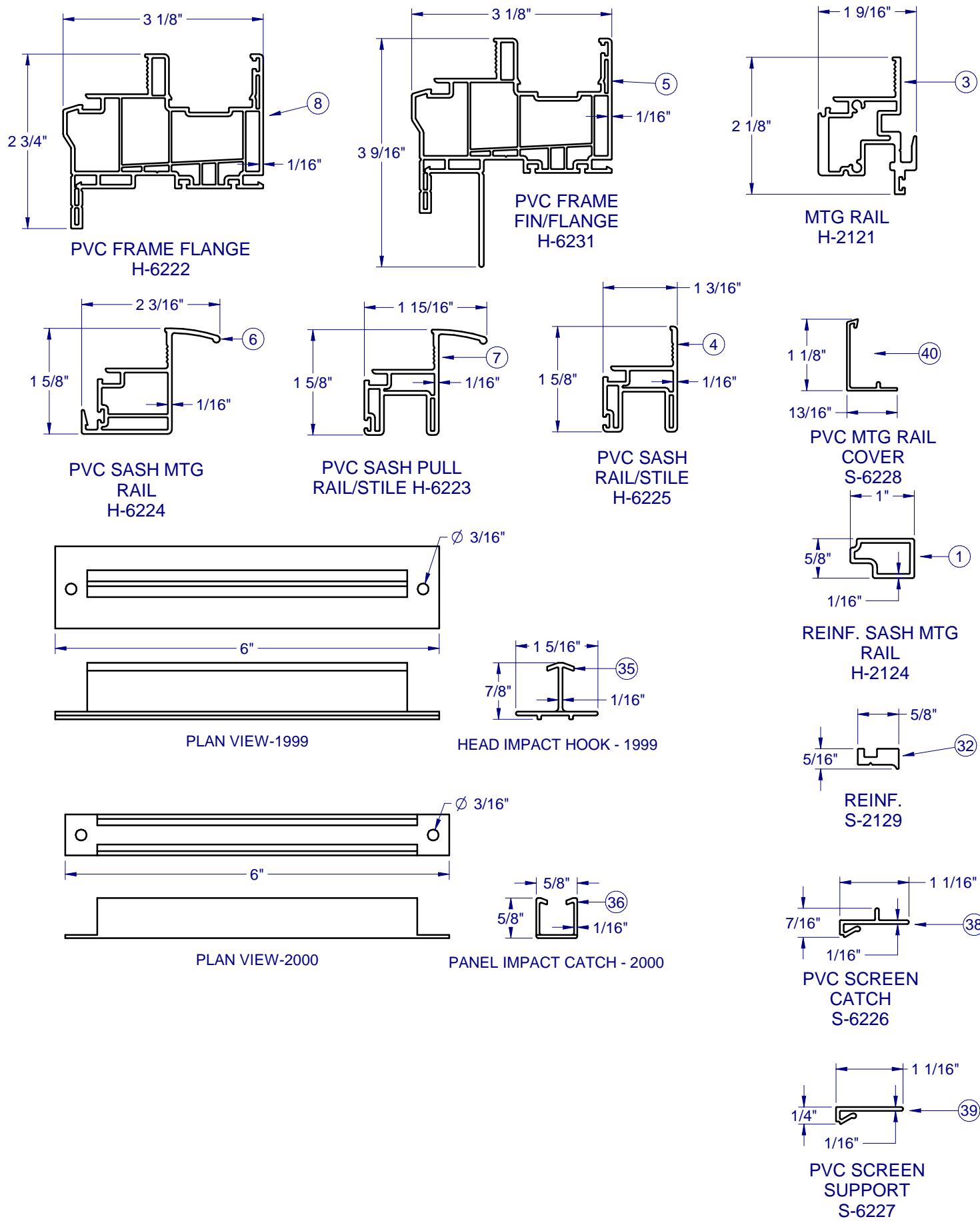
ROTARY LOCK (TYP.)
 ONLY ENGAGED PRIOR
 TO HURRICANE FORCE WINDS.
 LOCATED AT THIRD POINTS
 (ITEM 27)



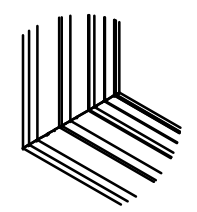
GLASS TYPE A
 1:1

* SETTING BLOCKS PER FBC 2411.3.3.1

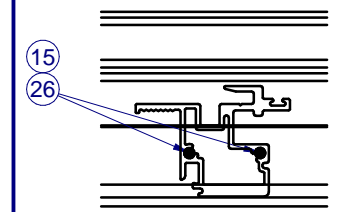
| PARTS LIST | | | |
|------------|--------|--|----------|
| ITEM | PART # | DESCRIPTION | MATERIAL |
| 1 | H-2124 | Reinf. Sash Meet. Rail | Alum |
| 2 | H-2123 | Reinf. S.B.R./S.S.R, | Alum |
| 3 | H-2121 | Meet. Rail, Fxd. | Alum |
| 4 | H-6225 | Sash Top/Bot. Rail | PVC |
| 5 | H-6231 | Main Fr., SH, w/ Fin., PVC | PVC |
| 6 | H-6224 | Sash Meet. Rail, PVC | PVC |
| 7 | H-6223 | Sash Side Rail, PVC | PVC |
| 8 | H-6222 | Main Fr., SH, w/Flg., PVC | PVC |
| 9 | P-3029 | Screen Pull Tab | |
| 10 | P-3195 | Screen Spring, SS | |
| 12 | P-3218 | Screen Frame | RollForm |
| 13 | P-5576 | Screen Spline, .155 Dia., Blk. | |
| 14 | P-4754 | Screen Frame Corner Key | Nylon |
| 15 | P-3342 | Seam Sealer, SM-5504 | Silicone |
| 16 | P-5582 | Set. Block, .12x1x2, SmartBlox PSA-1 | Rubber |
| 17 | P-3429 | Wstp., 0.270 x .187 back FinSeal, Gray | |
| 18 | P-3539 | #8 x 3/4" Square TEK 2 Zinc | Steel |
| 19 | P-3541 | #8 x 1/2" Truss PH TEK 2 Zinc | Steel |
| 20 | P-5588 | Cap Plug, 1/2" Hole | Nylon |
| 21 | P-3783 | Lock, Impact, PVC | |
| 22 | P-4779 | Roller, Tandem | Nylon |
| 23 | P-4051 | #8 x 1 1/4 Ph FH TEK, Wht. | Steel |
| 24 | P-4069 | Keeper, Impact, PVC | |
| 25 | P-4479 | Weep Cover w/ Flap | Nylon |
| 26 | P-4638 | #8 x 2 1/2 Ph Truss SMS | Steel |
| 27 | P-4958 | Rotary Lock | Zinc |
| 28 | P-4952 | Keeper, Rotary Lock | Zinc |
| 29 | P-4959 | Wstp., 0.420 x .187 back FinSeal, Gray | |
| 30 | P-4633 | Barrel Fastener | Steel |
| 31 | S-1112 | Reinforcement, Head | Alum |
| 32 | S-2129 | Reinf. S.B.R./S.S.R, | Alum |
| 34 | S-1776 | Roller Track | Alum |
| 35 | S-1999 | Frame Hook, Head, Impact | Alum |
| 36 | S-2000 | Panel Catch, Head, Impact | Alum |
| 38 | H-6226 | Scrn. Adapt., w/ Nib, PVC | PVC |
| 39 | H-6227 | Scrn. Adapt., PVC | PVC |
| 40 | S-6228 | Fixed Rail Cover | PVC |
| 41 | S-6237 | Glazing Bead | PVC |
| 42 | GLASS | SEE SHEET 2 | GLASS |
| 43 | | Purfect Glaze "H", SikaFlex 552 | Silicone |



CORNER CONSTRUCTION



CORNER WELD (ALL SIDES) 1:8



FIXED MEETING RAIL SCREWED TOGETHER WITH OUTERFRAME 1:8

Pella Corporation
102 Main Street
Pella, IA 50219
www.pella.com

520 PVC SLIDING WINDOW IMPACT

PROPRIETARY AND CONFIDENTIAL

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FLORIDA APPROVAL NO.: 33558



8/15/2023

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SHEET DESCRIPTION:

BOM AND EXTRUSIONS

| | |
|-----------|-----------|
| DRAWN BY: | DATE: |
| MCS | 7/31/2023 |
| DWG #: | REV.: |
| CWS-871 | E |
| SCALE: | SHEET |
| 1:2 | 3 OF 5 |

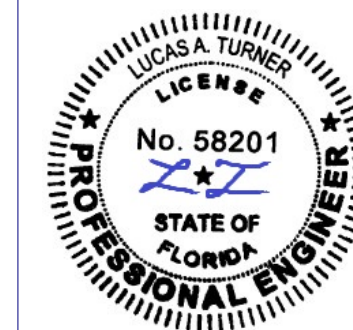
LINE ITEMS NOT USED:
33

NOTE: ALL EXTRUSIONS ARE ALUMINUM 6063-T6 UNLESS OTHERWISE NOTED.

**520 PVC
 SLIDING WINDOW
 IMPACT**

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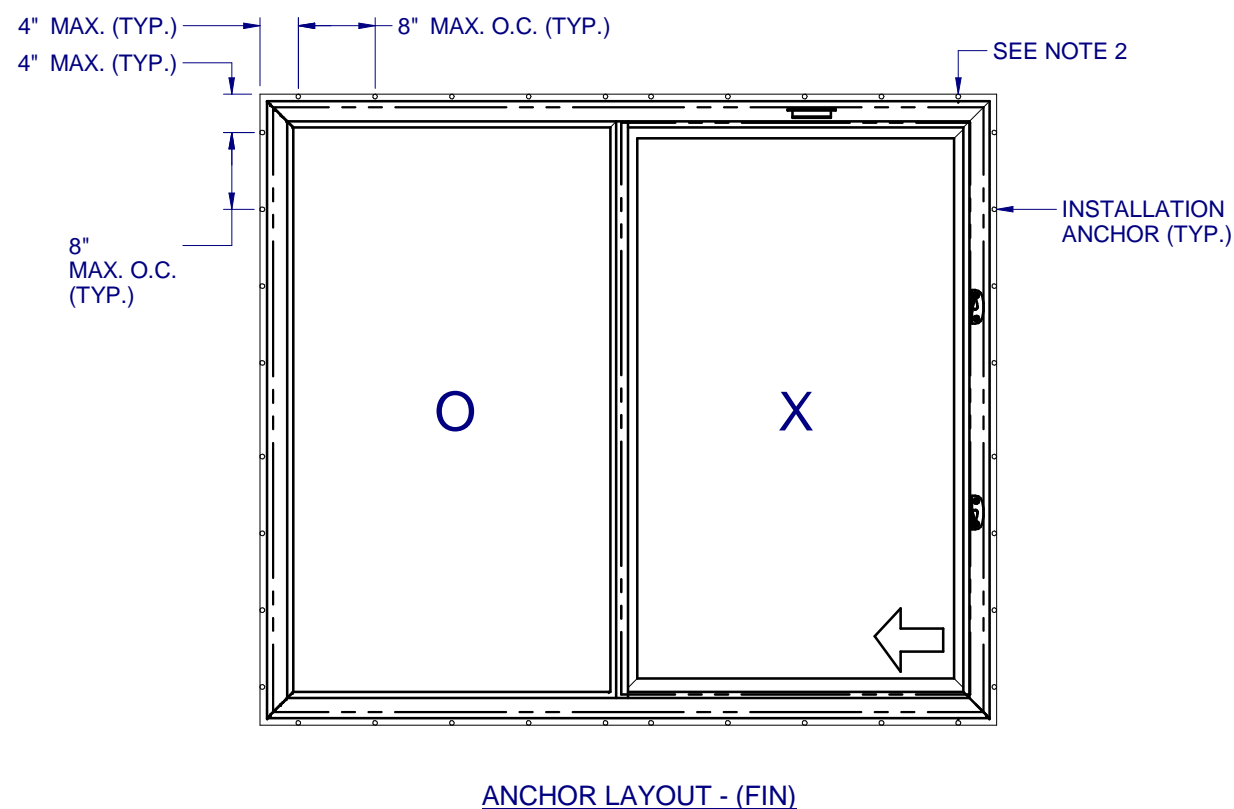
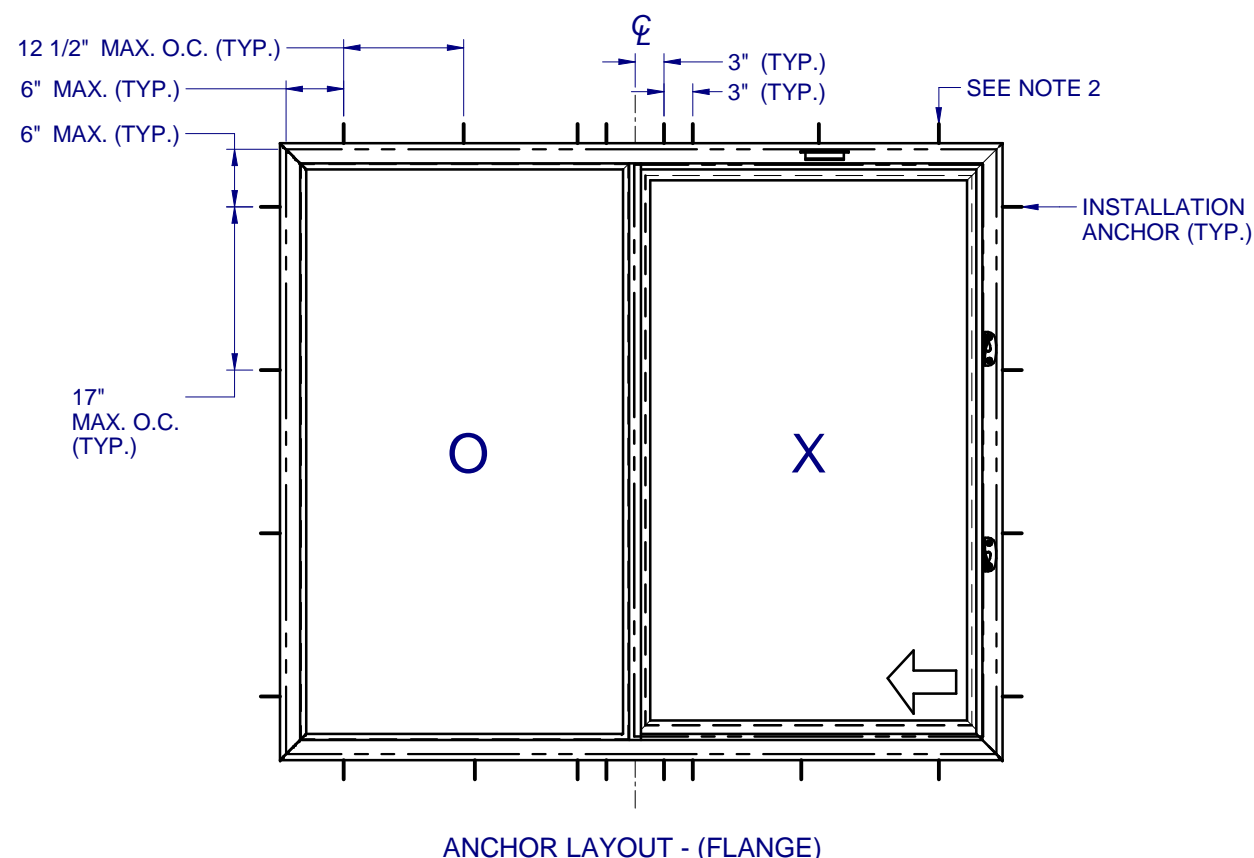
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SHEET DESCRIPTION:
ANCHOR SCHEDULE AND NOTES

| | |
|-------------------|--------------------|
| DRAWN BY: MCS | DATE: 7/31/2023 |
| DWG #: CWS-871 | REV.: E |
| SCALE: 1:20 | SHEET 4 OF 5 |



NOTES:

1. INSTALL ONE ANCHOR AT EACH INSTALLATION LOCATION. SILL ANCHOR SPACING SAME AS HEAD.
2. SHIM AS REQ AT EACH INSTALLATION ANCHOR USING LOAD BEARING SHIMS. MAX. ALLOWABLE SHIM STACK TO BE 1/4". USE SHIMS WHERE SPACE GREATER THAN 1/16" IS PRESENT. LOAD BEARING SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER. WOOD SHIMS ARE NOT ALLOWED.
3. ANCHOR TYPE, SIZE, SPACING AND EMBEDMENT SHALL BE AS SPECIFIED IN THESE DRAWINGS, SEE TABLE 1, SHEET 5.
4. ALL INSTALLATION ANCHORS MUST BE MADE OF OR PROTECTED WITH A CORROSION RESISTANT MATERIAL OR COATING. DISSIMILAR METALS OR MATERIALS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE PROTECTED TO PREVENT REACTION.
5. INSTALLATION ANCHORS SHALL BE IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM SPECIFIED IN TABLE 1, SHEET 5.
6. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR CONCRETE/CMU OPENINGS, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, INTO SUBSTRATE. INSTALLATIONS TO SOLID CONCRETE OR GROUT-FILLED CMU MAY INCLUDE BUT DO NOT REQUIRE 1X WOOD BUCKS BETWEEN THE PRODUCT AND SUBSTRATE. INSTALLATIONS TO HOLLOW CMU REQUIRE THE USE OF 1X BUCKS BETWEEN THE PRODUCT AND SUBSTRATE.
7. A MINIMUM CENTER-TO-CENTER SPACING SHALL BE MAINTAINED BETWEEN ALL FASTENERS: 3" FOR MASONRY, 1" FOR WOOD AND METAL.
8. WOOD OR MASONRY OPENINGS, BUCKS AND BUCK FASTENERS SHALL BE PROPERLY DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD AND INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS AS SHOWN IN TABLE 1, SHEET 5. CONCRETE AND MASONRY SUBSTRATES MAY NOT BE CRACKED.
9. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS FOLLOWING THE CURRENT VERSION OF THE REFERENCE DOCUMENTS: FMA/AAMA 100(FIN WINDOWS), FMA/AAMA 200(FLANGE WINDOWS), FMA/WDMA 250(BOX WINDOWS), FMA/AAMA/WDMA 300(EXTERIOR DOORS)

520 PVC SLIDING WINDOW IMPACT

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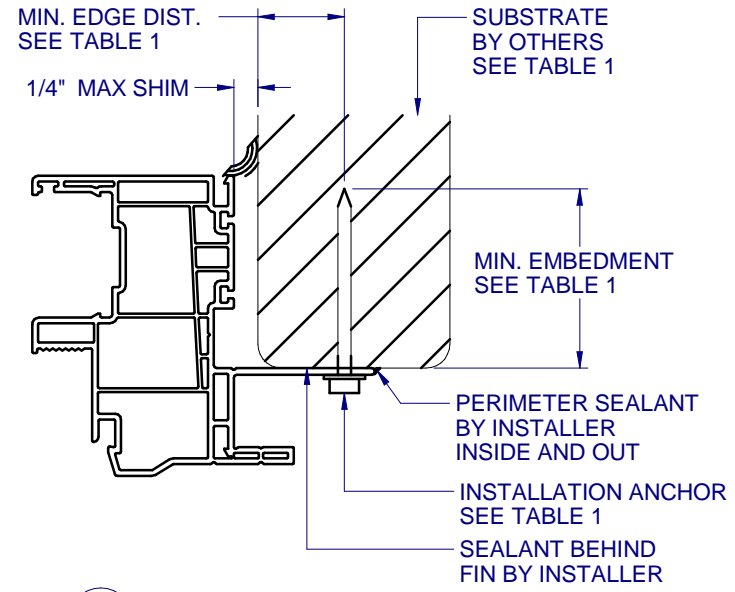


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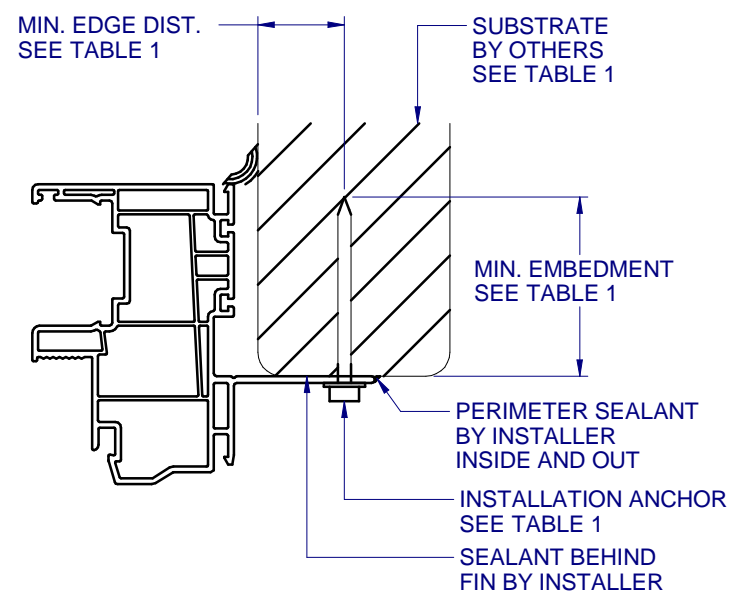
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INSTALLATION DETAILS

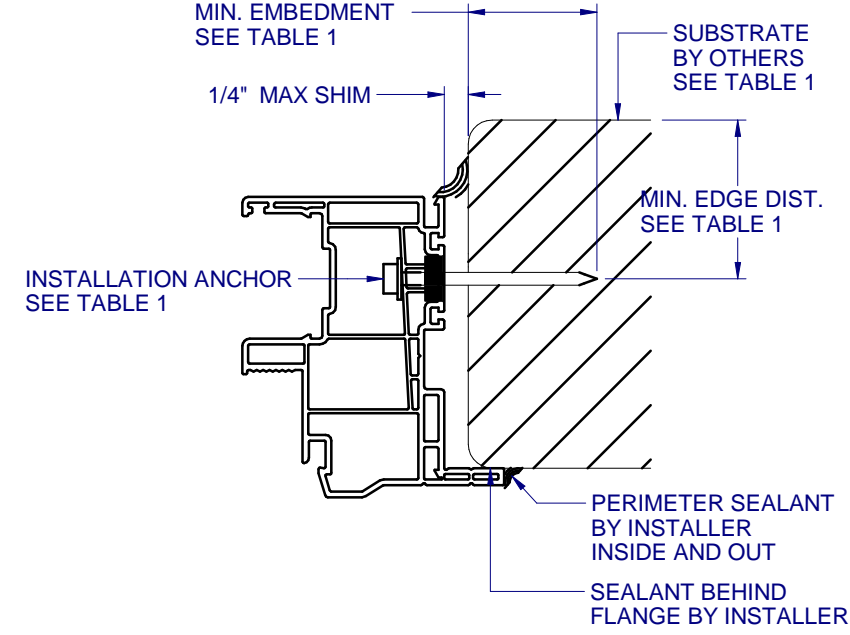
| | |
|-----------|-----------|
| DRAWN BY: | DATE: |
| MCS | 7/31/2023 |
| DWG #: | REV.: |
| CWS-871 | E |
| SCALE: | SHEET |
| 1:2 | 5 OF 5 |



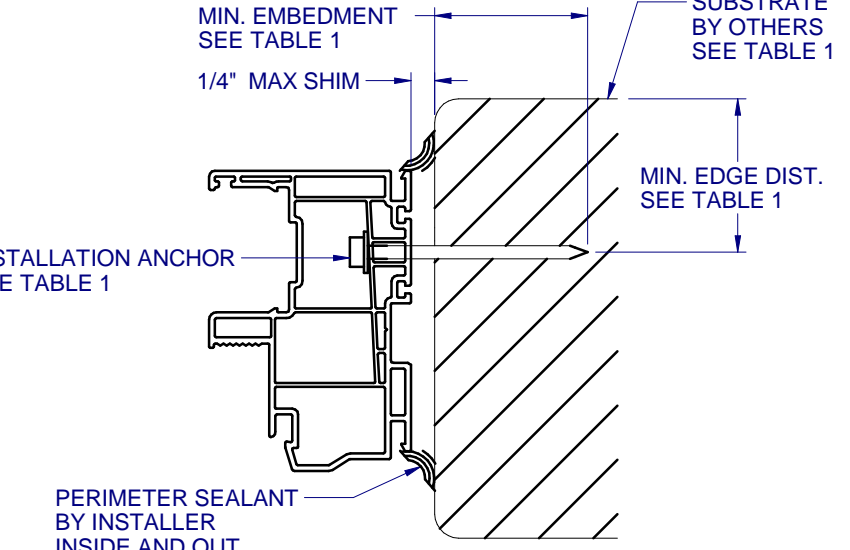
C HORIZONTAL SECTION
5 TYPICAL FIN ANCHORAGE
 HEAD AND SILL SIMILAR FOR FIN INSTALLATION



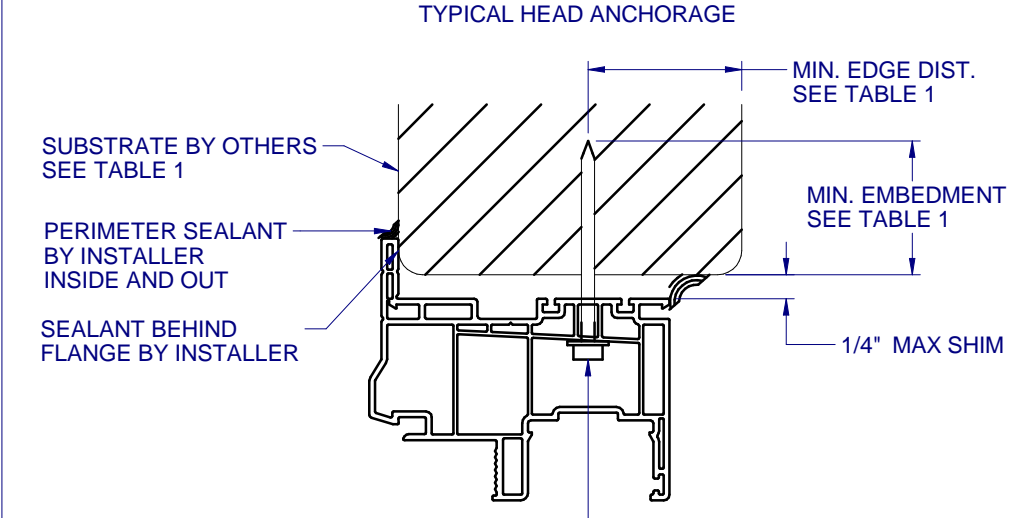
E HORIZONTAL SECTION
5 TYPICAL FIN ANCHORAGE
 HEAD AND SILL SIMILAR FOR FIN INSTALLATION



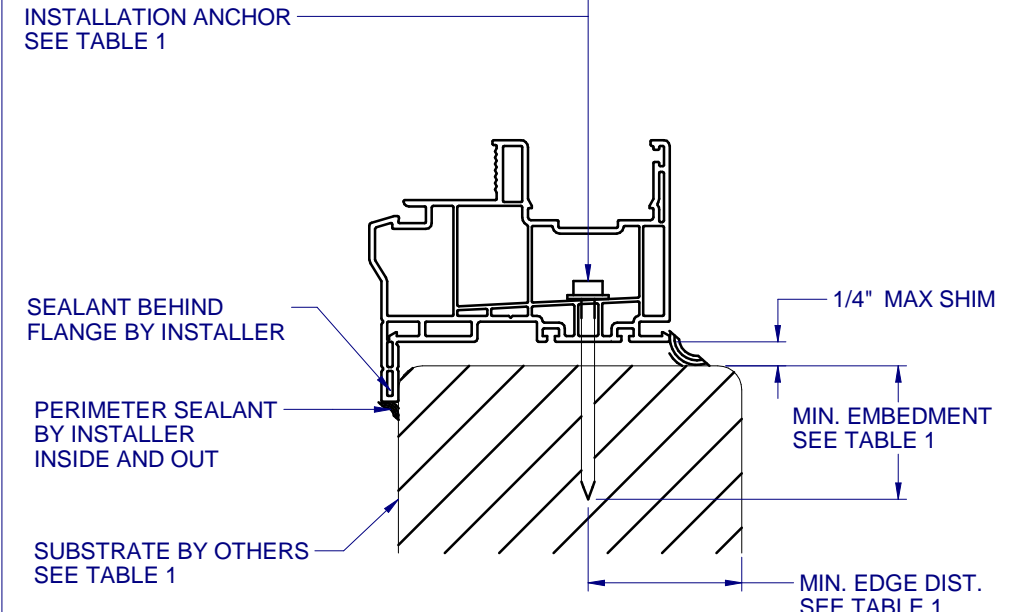
B HORIZONTAL SECTION
5 TYPICAL JAMB ANCHORAGE



D HORIZONTAL SECTION
5 BOX FRAME INSTALLATION
 HEAD AND SILL SIMILAR FOR BOX INSTALLATION



A VERTICAL SECTION
5 TYPICAL SILL ANCHORAGE



| FRAME TYPE | SUBSTRATE TYPE | ANCHOR TYPE | MIN. EMBEDMENT | MIN. EDGE DIST. |
|------------|---|--|-------------------------|-----------------|
| FLANGE | CONCRETE (2.0 KSI MIN.) | 3/16" ITW TAPCON | 1-1/2" | 1-1/8" |
| FLANGE | HOLLOW OR GROUT-FILLED CMU (117 PCF MIN.) | 3/16" ITW TAPCON | 1" | 2" |
| FLANGE | CONCRETE (3.05 KSI MIN.) | 3/16" DEWALT ULTRACON+ | 1-3/4" | 1" |
| FLANGE | HOLLOW OR GROUT-FILLED CMU (ASTM C-90) | 3/16" DEWALT ULTRACON+ | 1-1/4" | 2-1/2" |
| FLANGE | 2X MIN. SOUTHERN PINE (G=0.55) | 3/16" ITW TAPCON OR DEWALT ULTRACON+ | 1-3/8" | 7/8" |
| FLANGE | 2X MIN. SOUTHERN PINE (G=0.55) | #10 WOOD SCREW | 1-3/8" | 7/8" |
| FLANGE | 16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN) | #10-16 HILTI KWIK-FLEX OR ITW TEKS SELF-DRILLING SCREW | FULL THREAD THRU 0.060" | 7/16" |
| FLANGE | 1/8" ALUM. (6063-T5 MIN.) OR 1/8" STEEL (33 KSI MIN.) | #10 GRADE 5 SELF-TAPPING / DRILLING SCREW | FULL THREAD THRU 0.125" | 7/16" |
| FIN | 2X MIN. SOUTHERN PINE (G=0.55) | #8 WOOD SCREW | 1-1/2" | 1/2" |

FLANGE REMOVAL NOTE: PARTIALLY OR FULLY REMOVING THE FLANGE, UP TO AND INCLUDING A BOX-FRAME APPLICATION IS ACCEPTABLE PROVIDED:

- MIN. 1/4" FILLET OF CONSTRUCTION-GRADE ADHESIVE CAULK IS APPLIED INSIDE AND OUT, FULL PERIMETER, BY INSTALLER.
- PRODUCT ANCHORAGE IS IN ACCORDANCE WITH REQUIREMENTS AS SHOWN FOR FLANGE WINDOWS.