

SERIES 2-3-4250i XLT INVENT RETRO

THERMALLY BROKEN ALUMINUM CASEMENT WINDOW

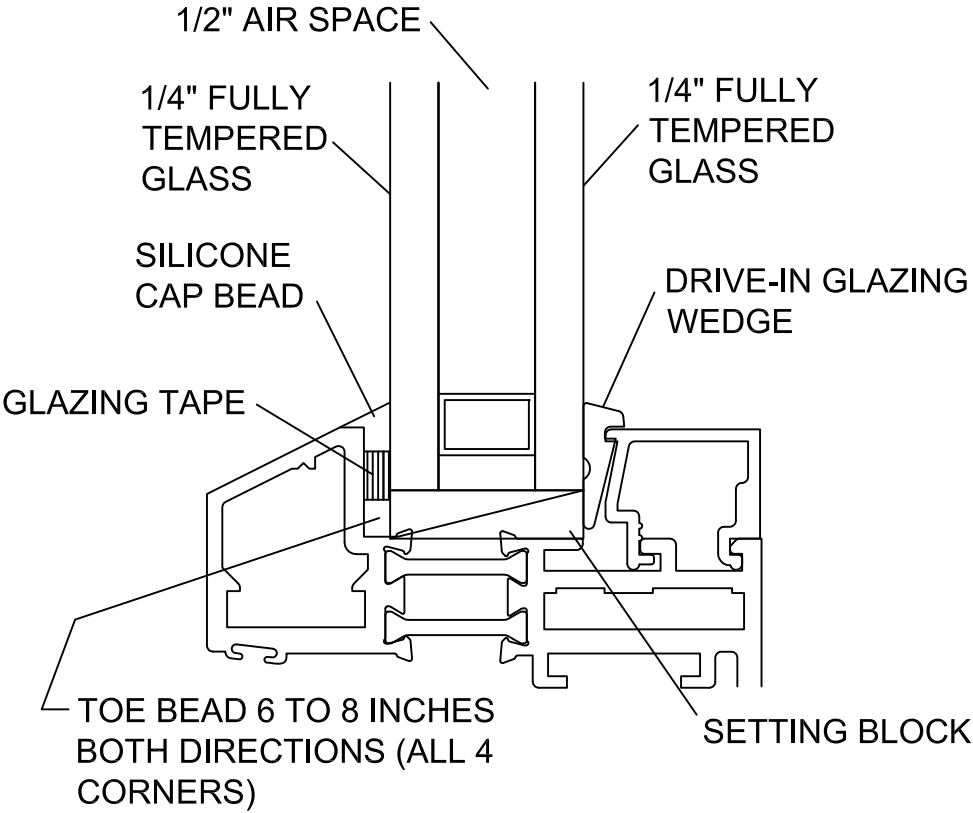
PROJECT-OUT OR PROJECT-IN

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 8th EDITION (2023) FLORIDA BUILDING CODE FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
2. THIS PRODUCT IS APPROVED IN THE CONFIGURATIONS INDICATED IN THIS DRAWING. IF MULTIPLE PRODUCTS OR FRAMING OPTIONS AS INDICATED HEREIN, AND/OR AS NOTED IN SEPARATE APPROVALS, ARE ASSEMBLED TOGETHER, THE LOWEST DESIGN PRESSURE OF ALL PRODUCTS/OPTIONS SHALL APPLY TO THE ENTIRE ASSEMBLY.
3. THIS PRODUCT AS SHOWN IN THIS DRAWING IS NOT IMPACT RESISTANT, AND REQUIRES THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
4. GLAZING AS INDICATED IS COMPLIANT WITH ASTM-E1300.
5. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
6. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, AND BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDACE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. WITH MASONRY OPENINGS, PRODUCTS MAY BE INSTALLED DIRECTLY TO MASONRY.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
8. ANCHORAGE NOTES: ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE PRESSURE TREATED WOOD BUCKS AND ALL OTHER WINDOW MATERIALS. INSTALL TWO ANCHORS THROUGH EACH CLIP AT EACH CLIP LOCATION SHOWN IN THE ELEVATIONS IN THIS DRAWING. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN FRAME OR CLIP AND SUBSTRATE. SHIMS SHALL BE LOAD-BEARING, NON-COMPRESSIBLE, AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO. ENSURE 2.5" MINIMUM SPACING BETWEEN ANY TWO CLIP INSTALLATION FASTENERS.
9. WOOD BUCKS LESS THAN 1 1/2" THICK ARE OPTIONAL AND MAY BE USED WITH CONCRETE/CMU, WITH ANCHOR EMBEDMENT BEYOND WOOD BUCKS AND INTO THE CONCRETE/CMU. WHEN WOOD BUCKS 1 1/2" THICK OR GREATER ARE USED, ANCHORAGE SHALL BE TO THE WOOD BUCKS USING ONE OF THE APPROVED METHODS IN THIS DRAWING FOR ATTACHMENT TO WOOD.
10. ALL HARDWARE AND FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS.
11. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS AND ARE NOT ADDRESSED BY THIS DOCUMENT.

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES, TYP. GLAZING DETAIL
2	DESIGN PRESSURE CHARTS
3	TYPICAL ELEVATIONS, INSTALLATION FASTENERS
4	TYPICAL INSTALLATION DETAILS
5	PROJECT-OUT SECTION DETAILS
6	PROJECT-IN, FIXED, AND SDH SECTION DETAILS
7	PROJECT-IN SECTION DETAILS AND OPT. SASH PROFILES
8	OPTIONAL INTERMEDIATE PROFILES

Lucas Turner
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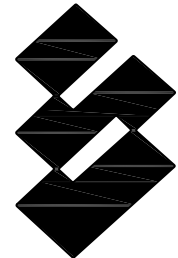


TYPICAL GLAZING DETAIL

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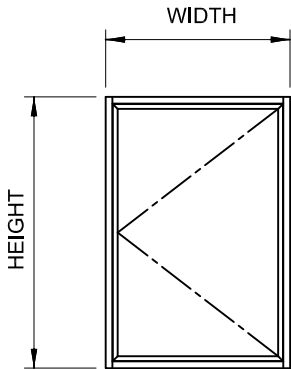
PROFESSIONAL ENGINEER

2/29/2024

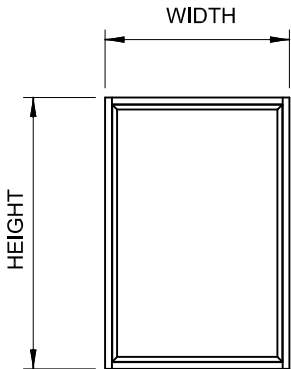
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FL PE #58201
Turner Engineering & Consulting, Inc.
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Camden, TN 38320
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REV. 0 2/26/2024
SCALE: NTS
DWG. INvent-Retro-CA
FPA # FL46237.2
SHT. 1 of 8

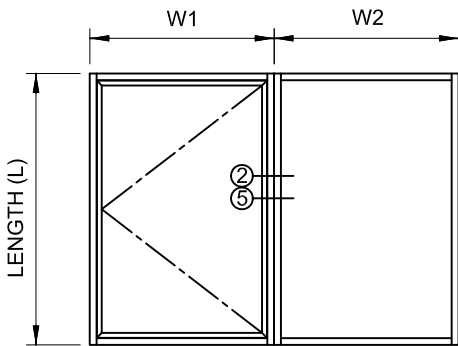
CASEMENT WINDOW DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		NON-IMPACT INSUL. GLASS	
WIDTH	HEIGHT	EXT. (+)	INT. (-)
24"	36"	100.0	177.3
30"		100.0	141.9
36"		100.0	118.2
42"		100.0	101.3
48"		88.7	88.7
54"		78.8	78.8
60"		70.9	70.9
24"	42"	100.0	152.0
30"		100.0	121.6
36"		100.0	101.3
42"		86.9	86.9
48"		76.0	76.0
24"	48"	100.0	187.5
30"		100.0	150.0
36"		100.0	125.0
42"		100.0	107.1
24"	54"	100.0	166.7
30"		100.0	133.3
36"		100.0	111.1
24"	60"	100.0	137.6
30"		100.0	114.4
36"		100.0	100.0
24"	66"	100.0	102.2
30"		84.3	84.3
24"	72"	78.0	78.0
30"		64.1	64.1
24"	78"	61.0	61.0
24"	84"	48.6	48.6



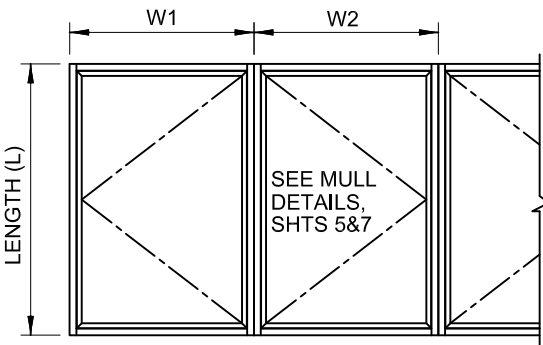
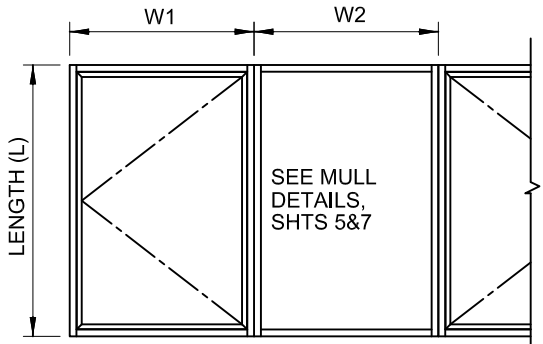
FIXED WINDOW DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		NON-IMPACT INSUL. GLASS	
WIDTH	HEIGHT	EXT. (+)	INT. (-)
24"	36"	100.0	150.0
30"		100.0	120.0
36"		100.0	100.0
42"		100.0	100.0
48"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
24"	42"	100.0	147.0
30"		100.0	120.0
36"		100.0	100.0
42"		85.7	85.7
48"		85.7	85.7
24"	48"	100.0	140.0
30"		100.0	120.0
36"		100.0	100.0
42"		85.7	85.7
24"	54"	100.0	135.0
30"		100.0	116.3
36"		100.0	100.0
24"	60"	100.0	131.3
30"		100.0	112.0
36"		100.0	100.0



INTEGRAL IMPOST DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		NON-IMPACT INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)
24"	36"	210.0	210.0
30"		210.0	210.0
36"		210.0	210.0
42"		210.0	210.0
48"		210.0	210.0
54"		210.0	210.0
60"		210.0	210.0
24"	42"	210.0	210.0
30"		186.7	186.7
36"		175.0	175.0
42"		171.4	171.4
48"		171.4	171.4
24"	48"	175.0	175.0
30"		152.7	152.7
36"		140.0	140.0
42"		133.3	133.3
24"	54"	150.0	150.0
30"		129.2	129.2
36"		116.7	116.7
24"	60"	131.3	131.3
30"		112.0	112.0
36"		100.0	100.0



STACK MULLION DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		NON-IMPACT INSUL. GLASS	
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)
24"	36"	210.0	210.0
30"		210.0	210.0
36"		210.0	210.0
42"		210.0	210.0
48"		210.0	210.0
54"		210.0	210.0
60"		210.0	210.0
24"	42"	210.0	210.0
30"		186.7	186.7
36"		175.0	175.0
42"		171.4	171.4
48"		171.4	171.4
24"	48"	175.0	175.0
30"		152.7	152.7
36"		140.0	140.0
42"		133.3	133.3
24"	54"	150.0	150.0
30"		129.2	129.2
36"		116.7	116.7
24"	60"	131.3	131.3
30"		112.0	112.0
36"		100.0	100.0



WIDTH (W) = $\frac{W1 + W2}{2}$

LOWEST VALUE FROM CASEMENT, FIXED, OR MULLION CHARTS SHALL APPLY TO THE ENTIRE ASSEMBLY.

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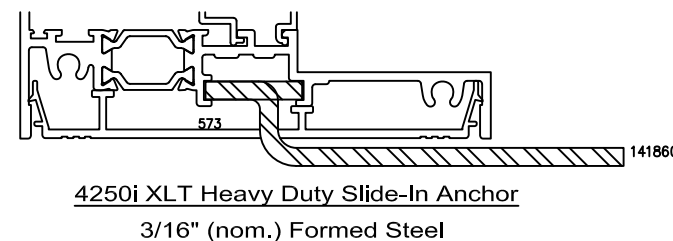
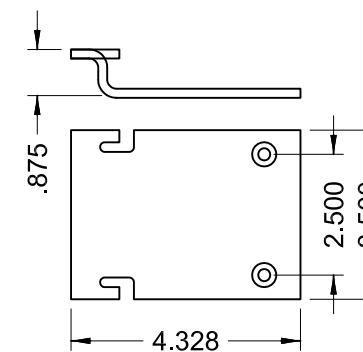
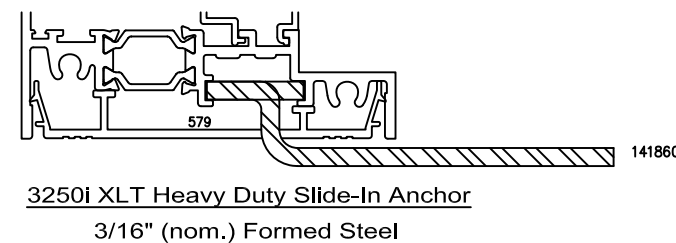
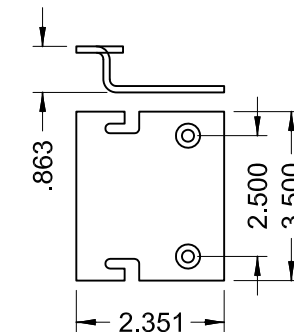
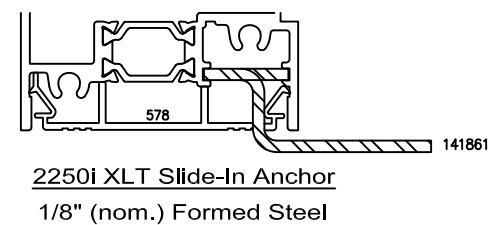
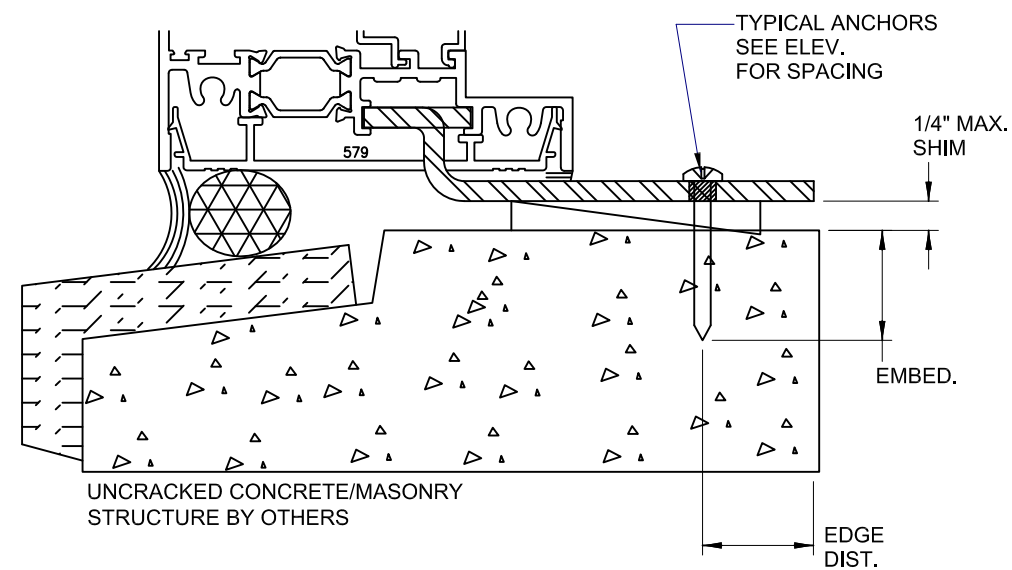
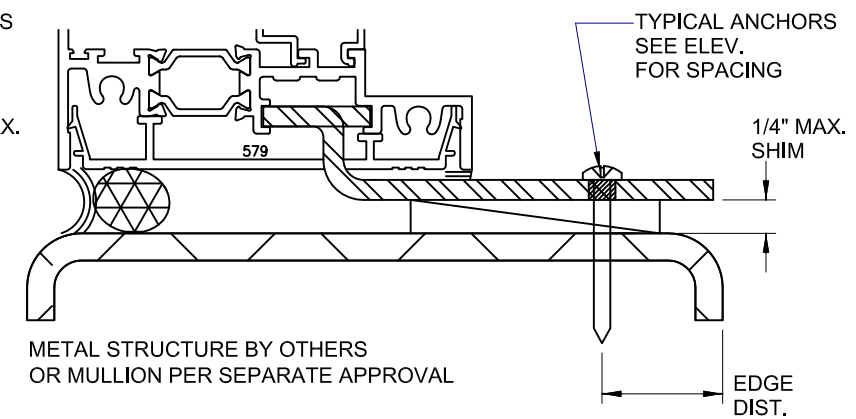
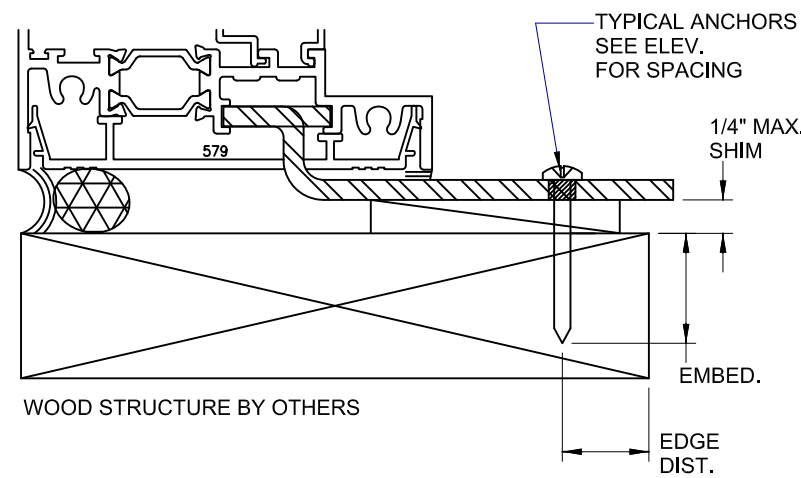
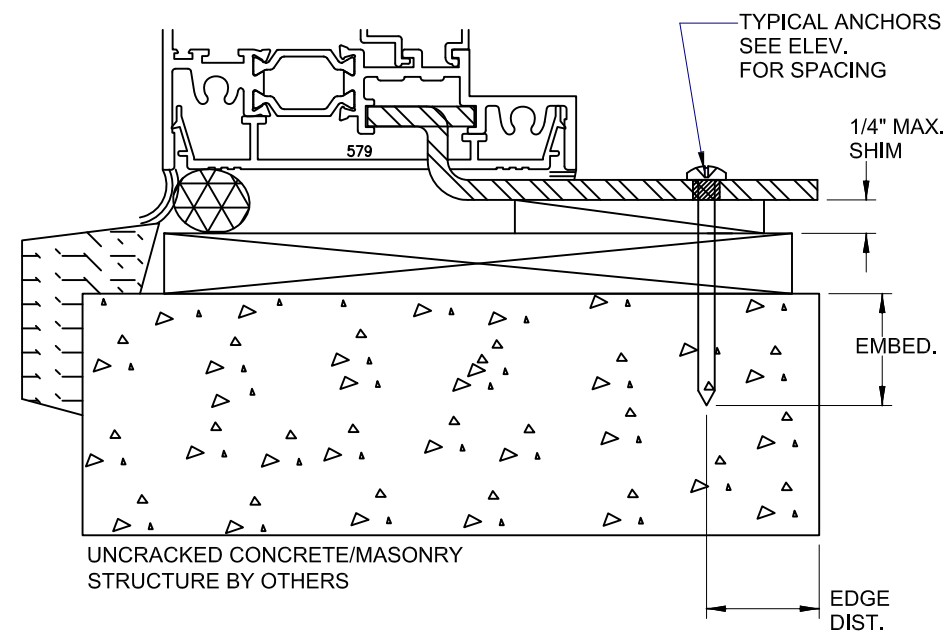
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SHT. 2 of 8

SHT. 3 of 8



Typical Installation Details

NOTES:

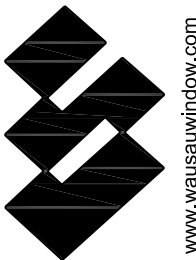
1) SEE SHEET 3 FOR INSTALLATION ANCHOR DETAILS.

2) SILLS SHOWN IN DETAILS; INSTALLATION IS APPLICABLE TO HEAD, SILL, AND JAMB OF PO, PI, AND FIXED.

3) 3250i XLT SHOWN IN DETAILS; INSTALLATION IS ALSO APPLICABLE TO 2250i XLT AND 4250i XLT WITH SLIDE-IN ANCHORS AS INDICATED ON THIS SHEET

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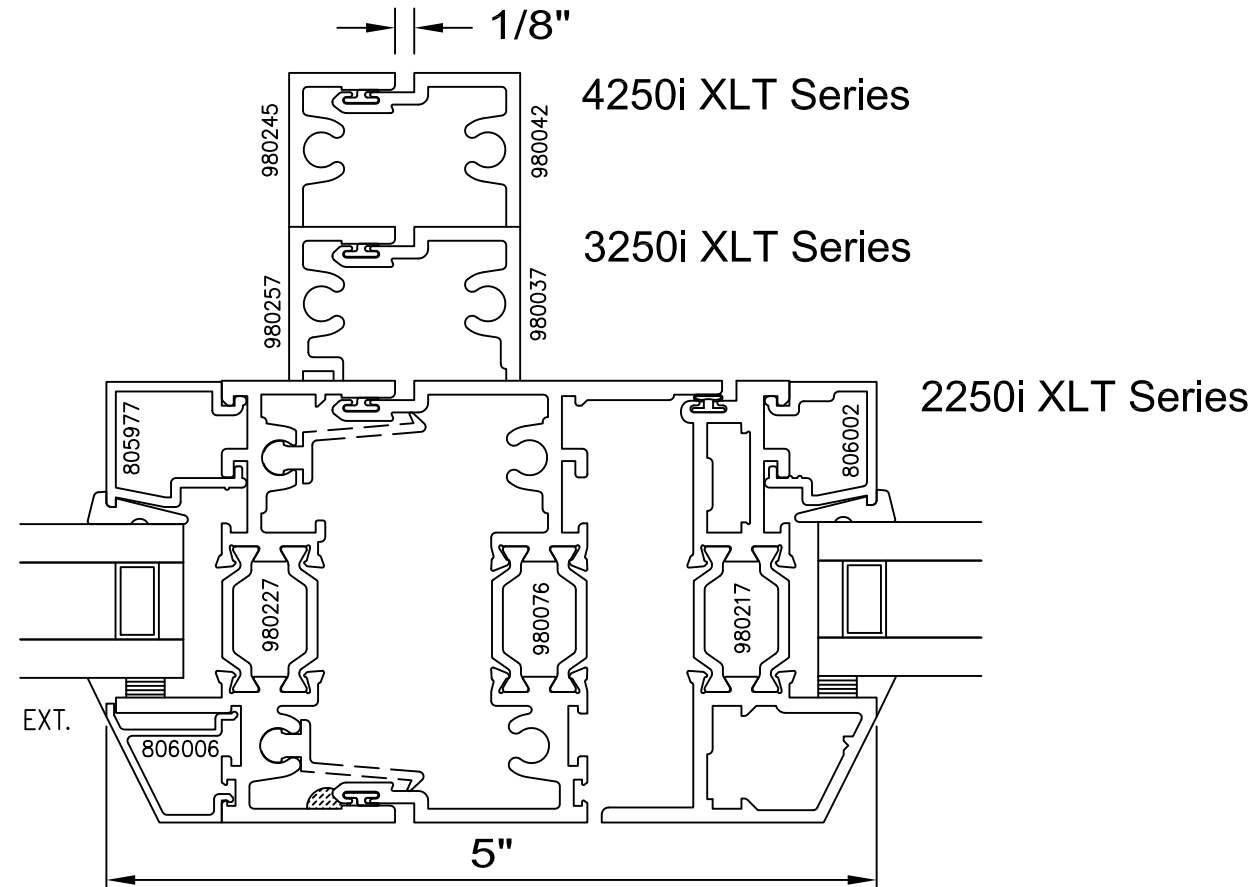
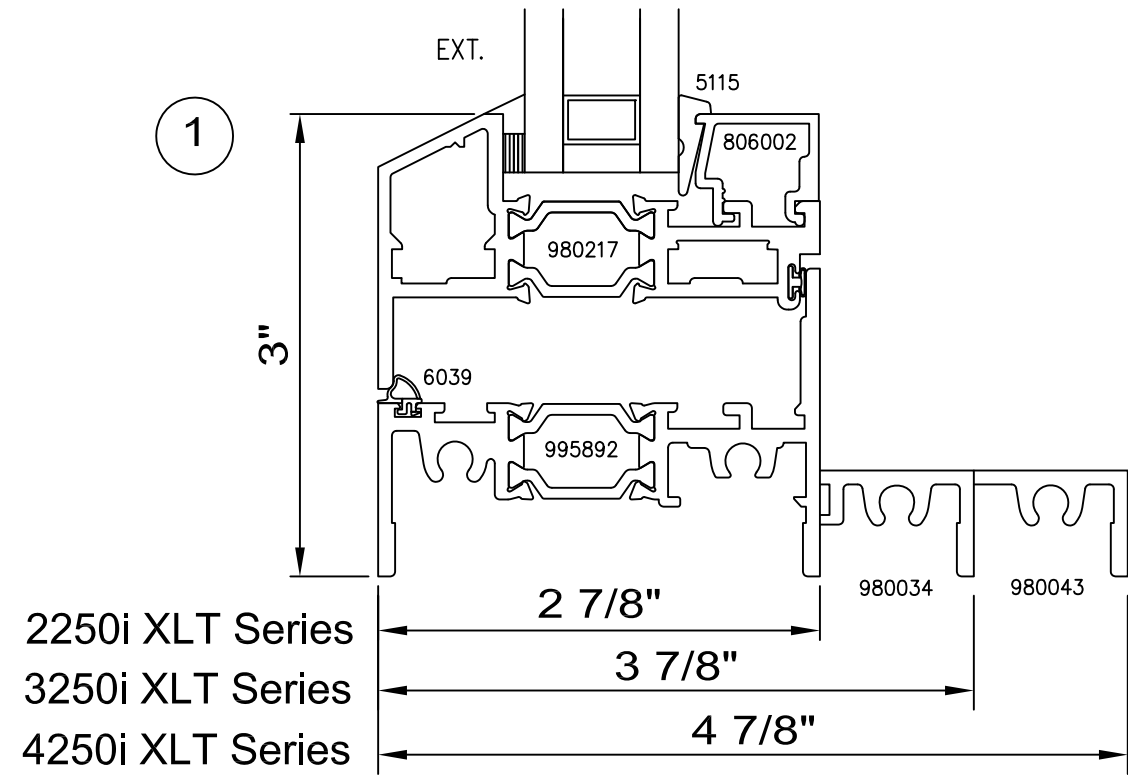
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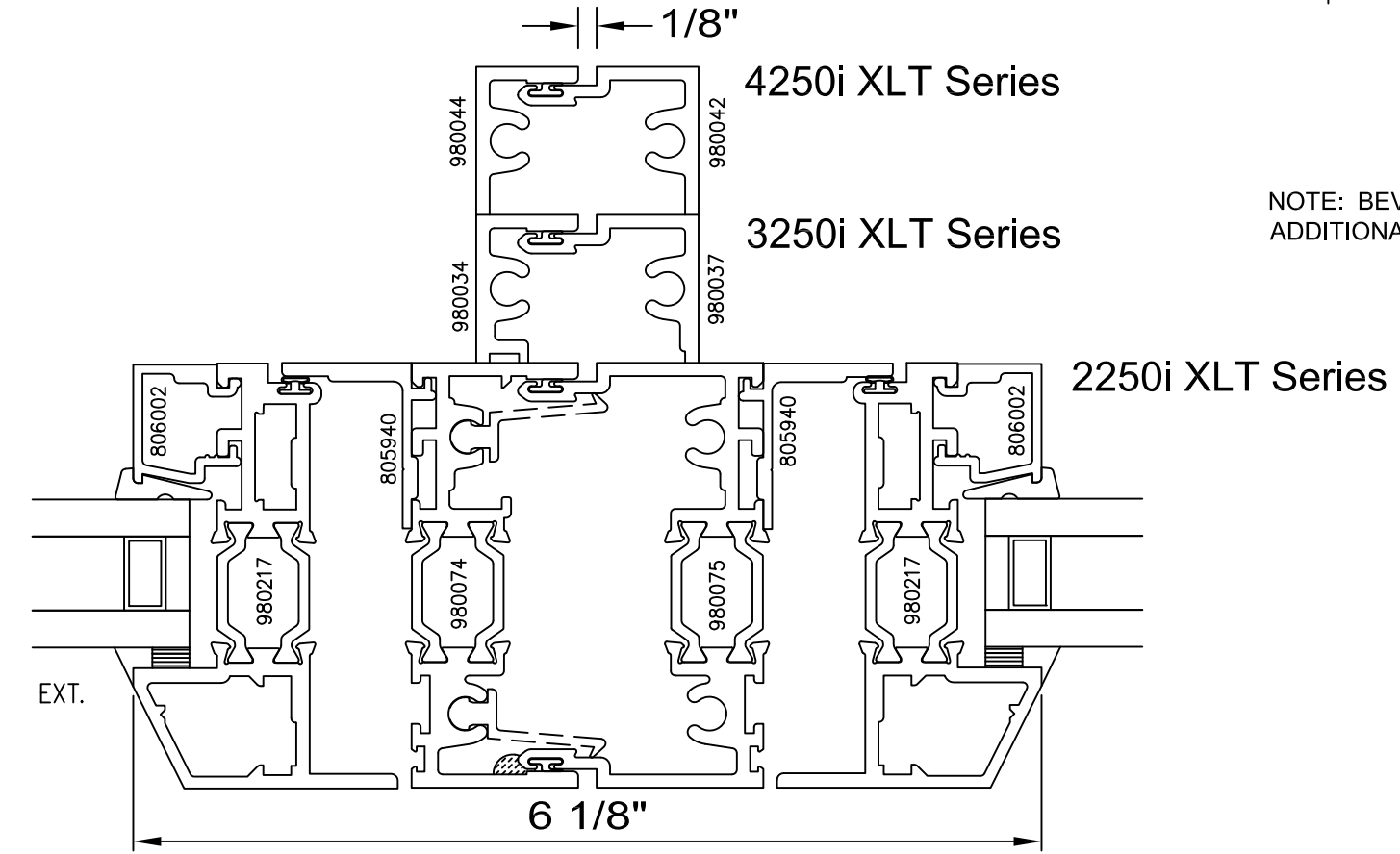
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Project-Out Details

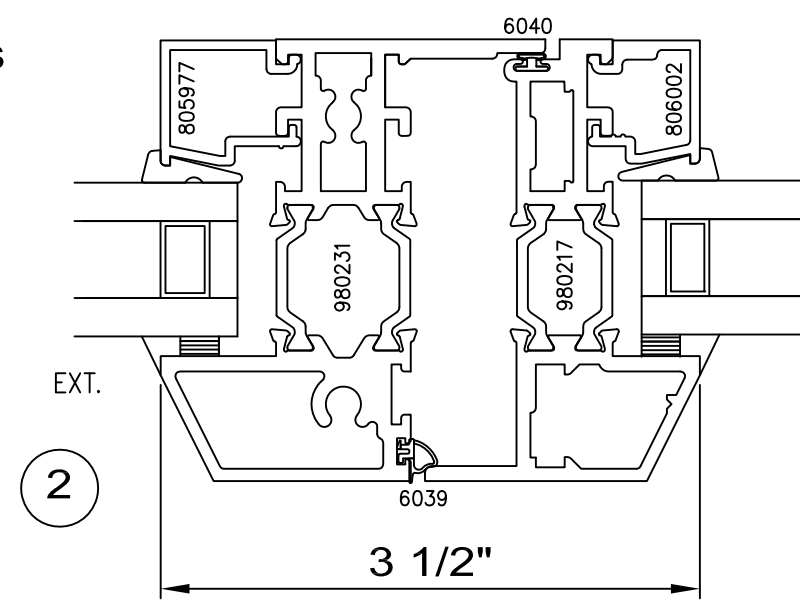


Fixed/Project-Out

NOTE: BEVEL PROFILES SHOWN, FOR
ADDITIONAL OPTIONS SEE SHEETS 6 AND 7

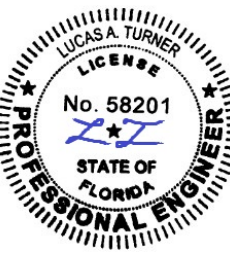


Project-Out/Project-Out



ALL FRAME/VENT MEMBERS ARE ALUM. 6063-T6

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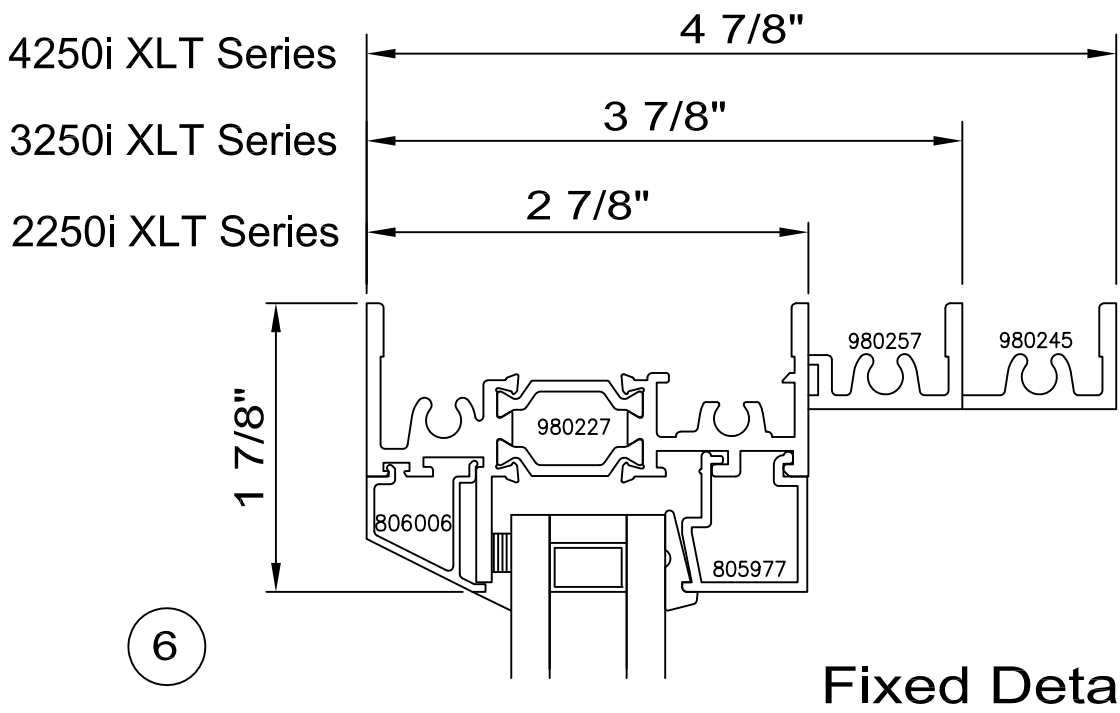
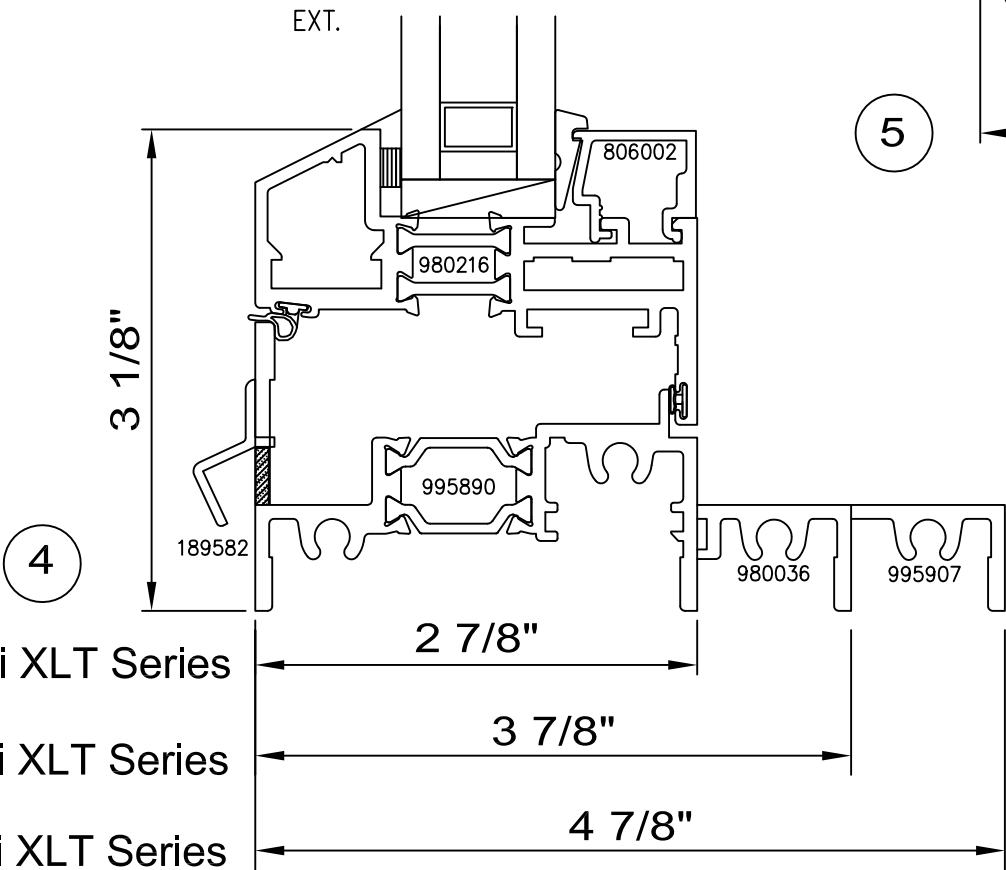
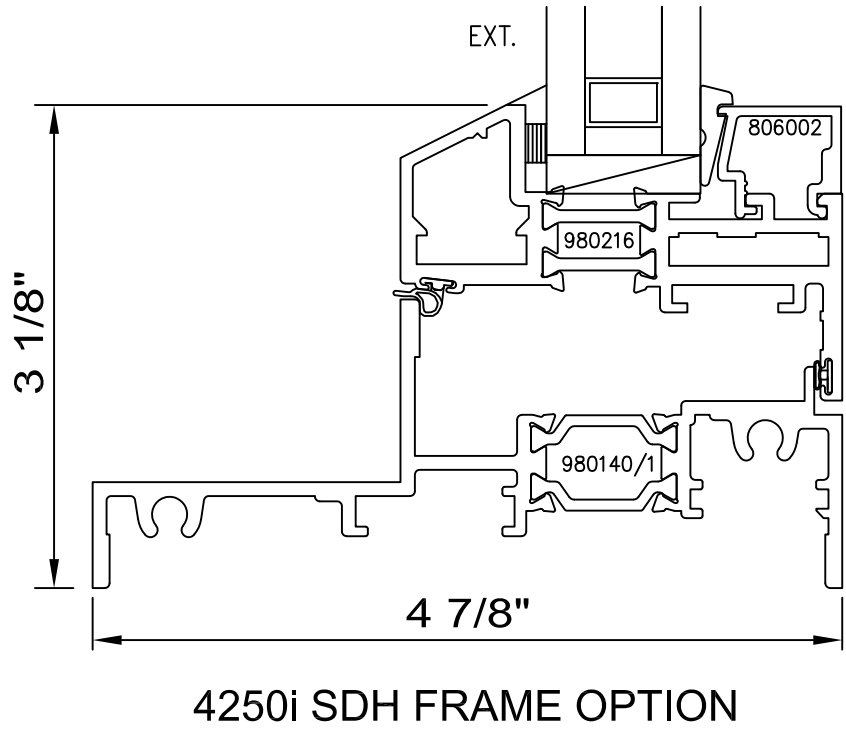
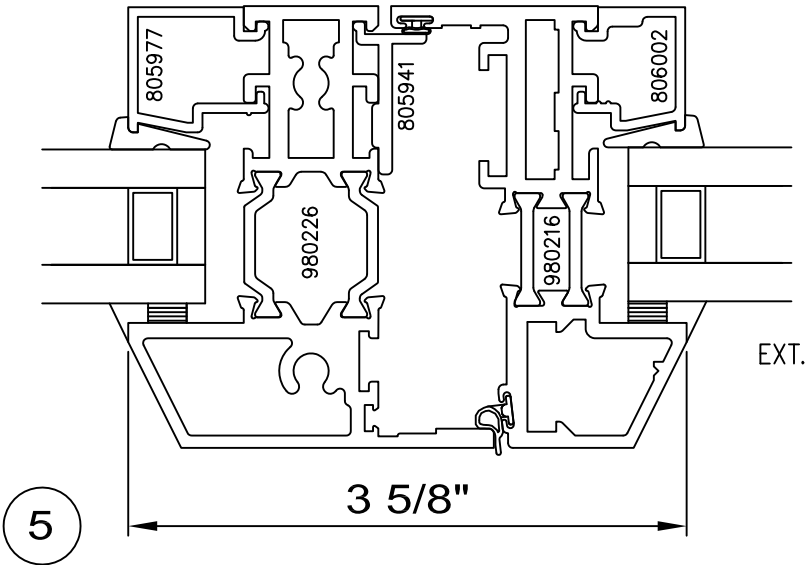
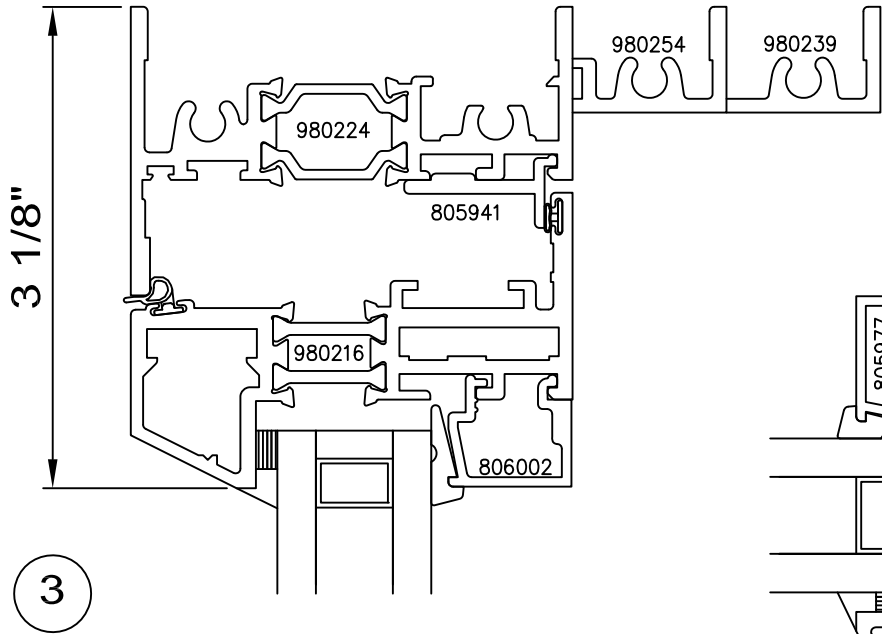
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Project-In Details

NOTE: BEVEL PROFILES SHOWN, FOR
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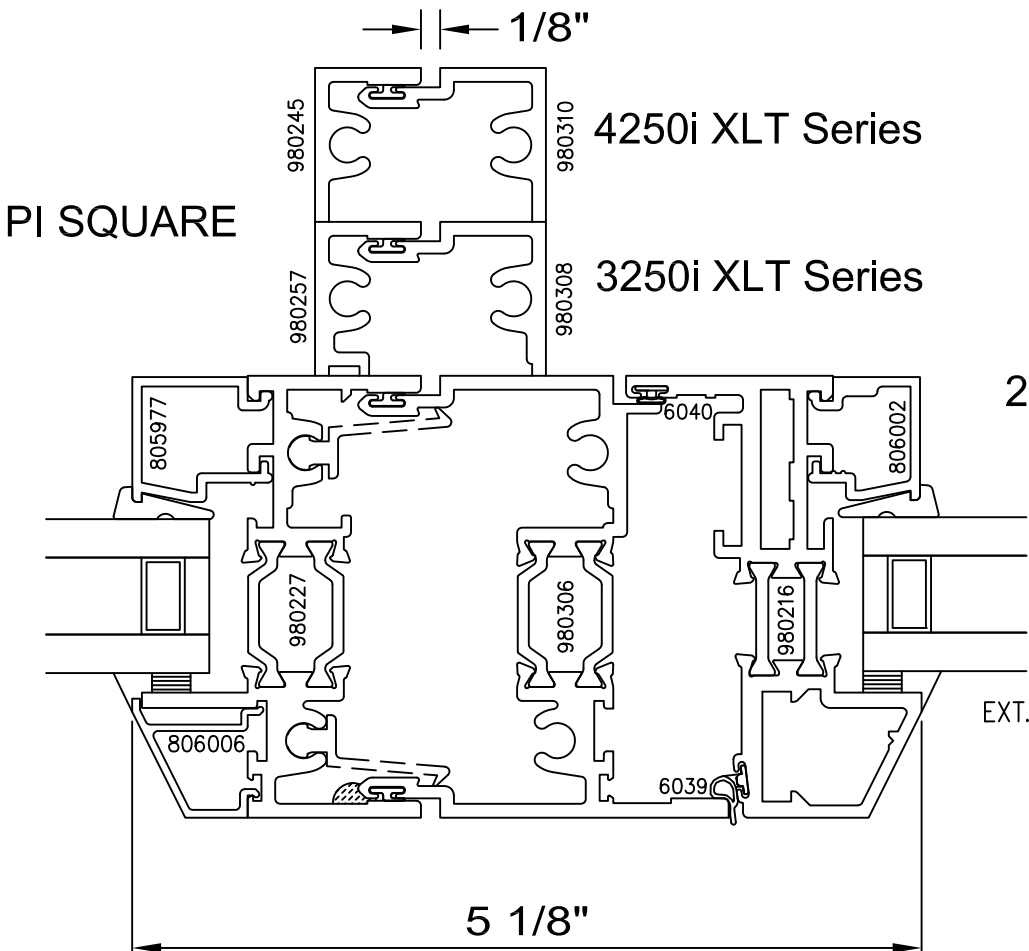
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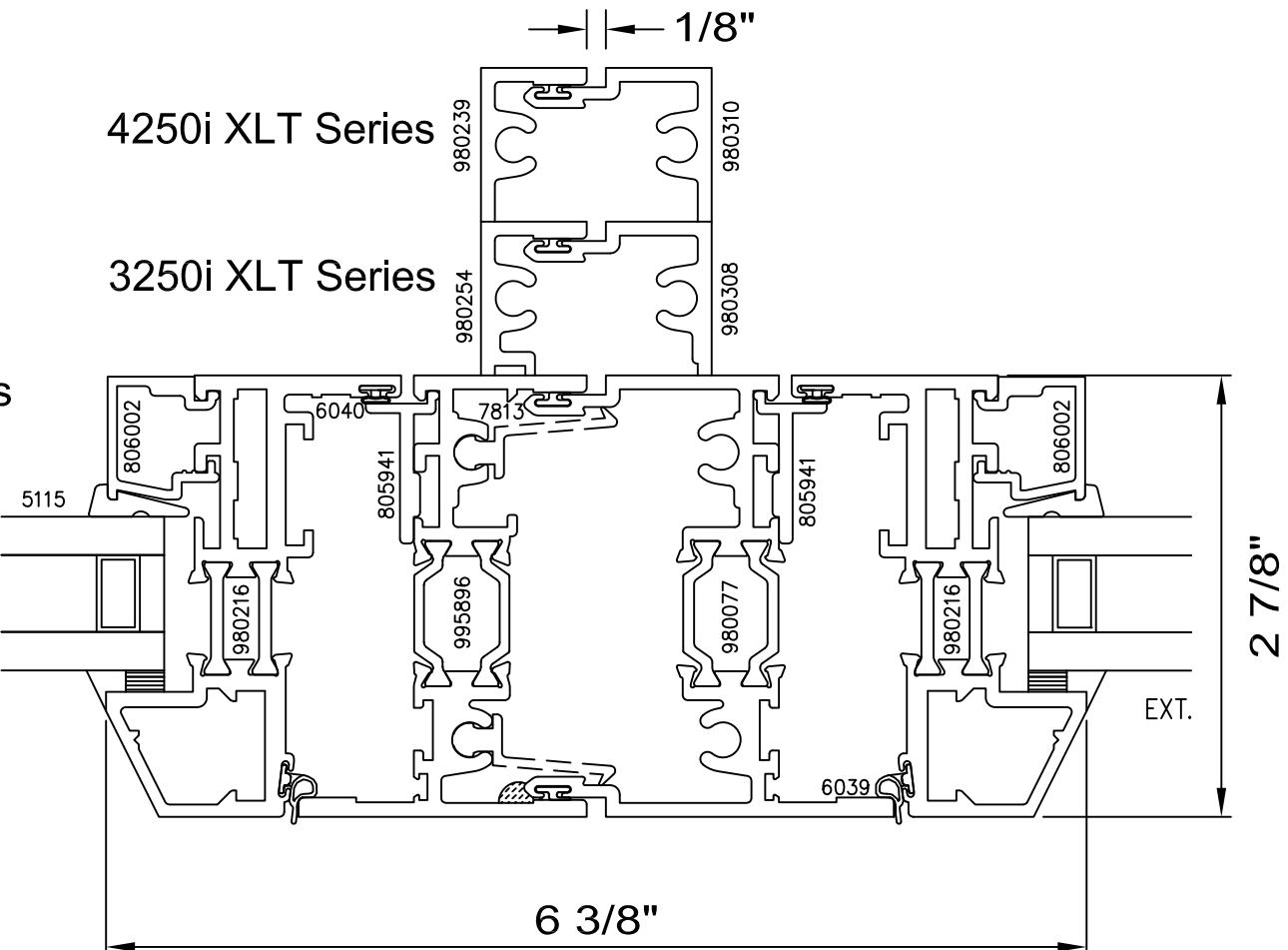
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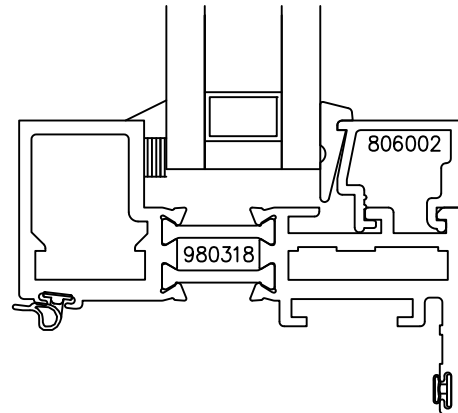


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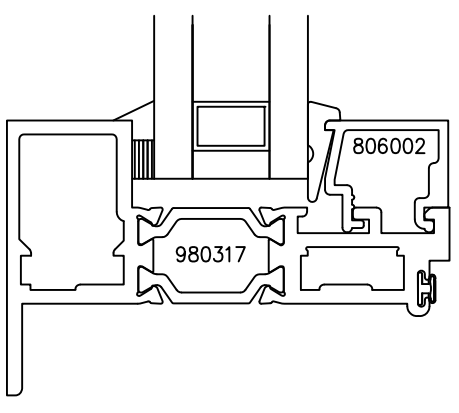


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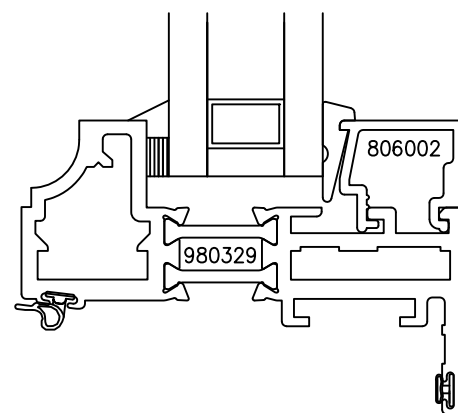
NOTE: BEVEL PROFILES SHOWN, FOR
ADDITIONAL OPTIONS SEE BELOW



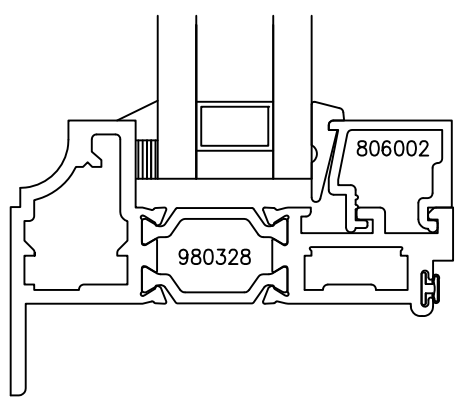
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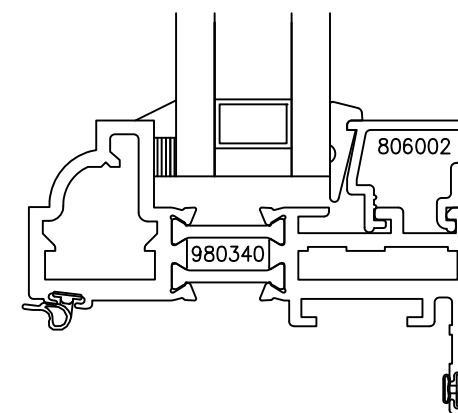
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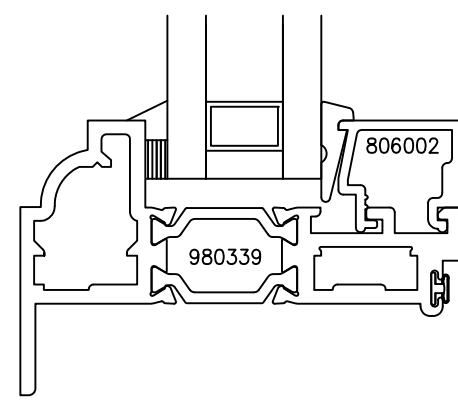
PI COVE



PO COVE



PI OGEE



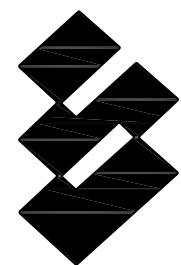
PO OGEE

Optional Sash Profiles

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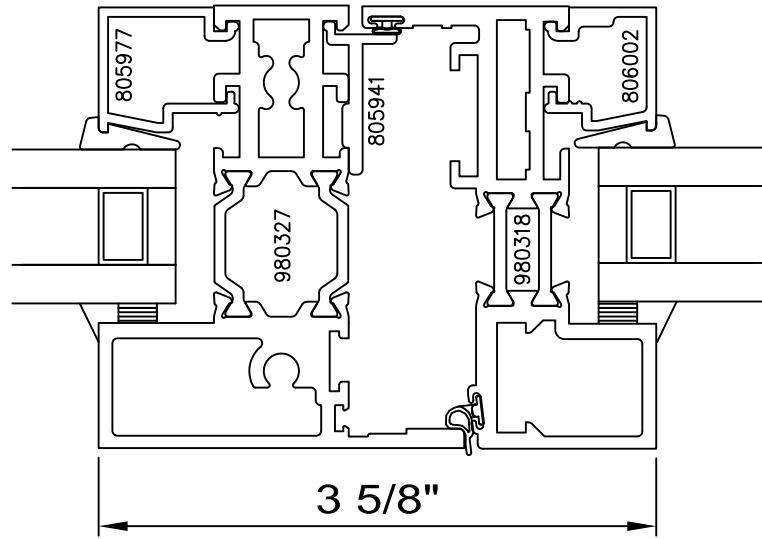
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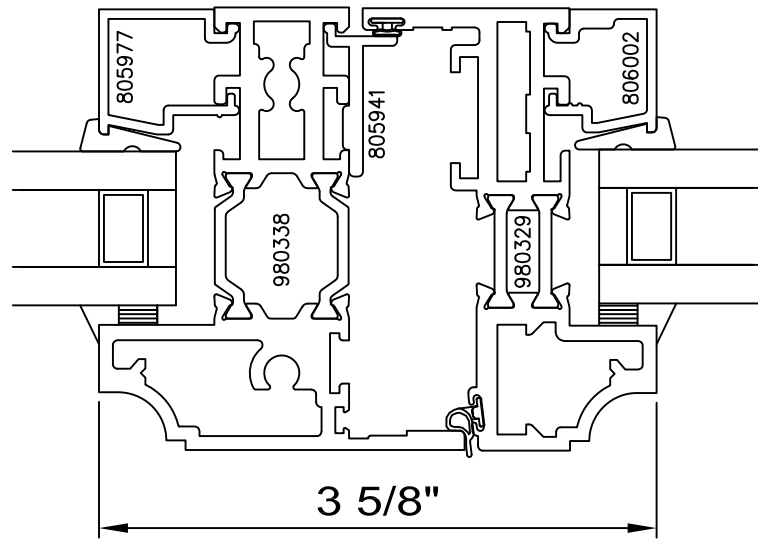
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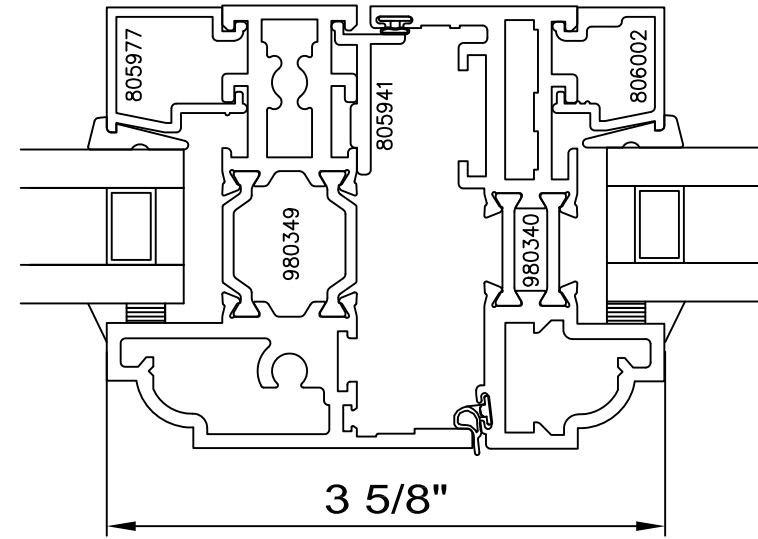
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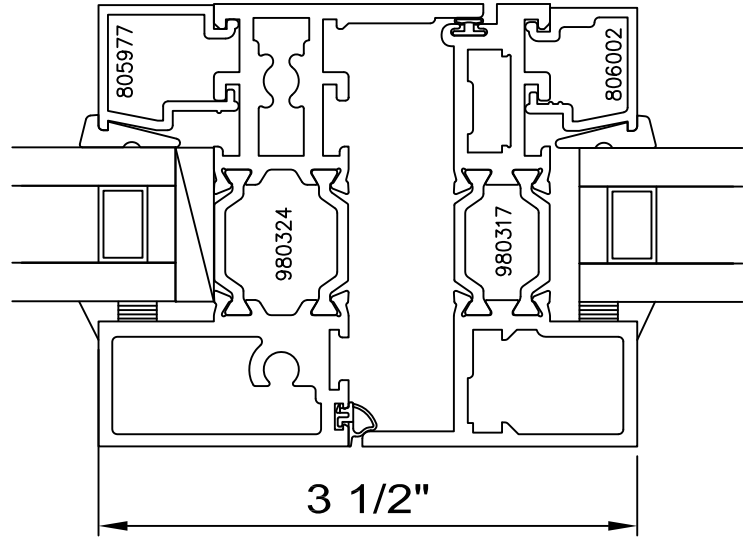
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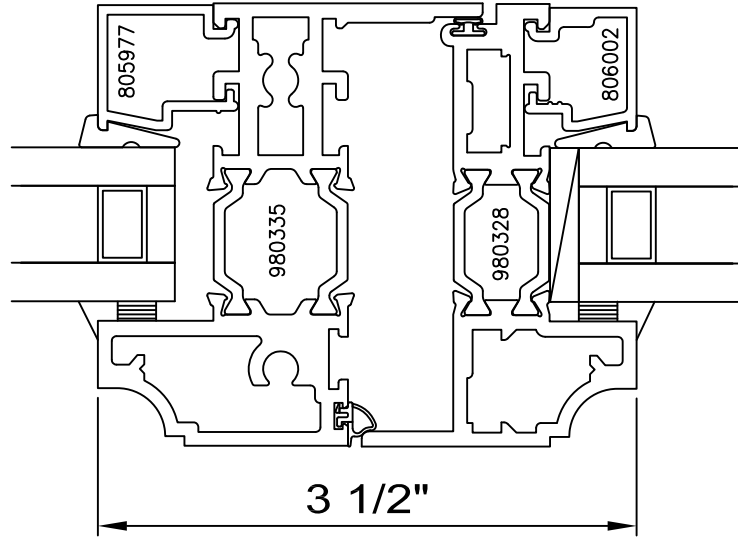
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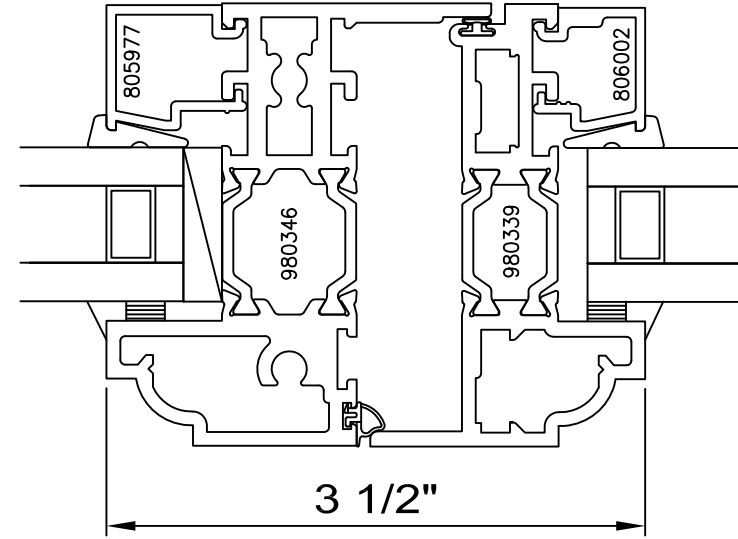
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PO SQUARE



PO COVE

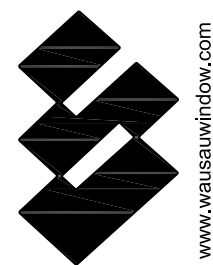


PO OGEE

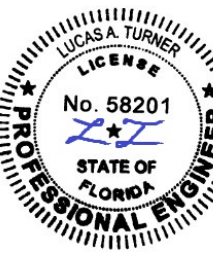
Optional Intermediate Profiles

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