

Product Evaluation Report

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Manufacturer

Weather Shield Windows & Doors
829 N. 8th Street
Medford, WI 54451

Product Series, Model and/or Description

Horizontal and Vertical Mullion System – Impact Resistant

Codes and Standards:

- Current Edition of the Florida Building Code including the 8th Edition (2023) Florida Building Code
- AAMA 450-10, Voluntary Performance Rating Method for Muller Fenestration Assemblies

Compliance Methods:

- Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Testing Results: testing by Element Materials Technology (Wausau, WI) – See Appendix A Matrix for more details.

- Non-HVHZ Testing
 - ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal)
- HVHZ Testing
 - ESP019892P-1719 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal), dated 5/28/15, signed and sealed by Thomas Allan Kolden, PE, FL No. 50899.
 - ESP018434P-1647 (Four-Way Tested, Mullion A Vertical and Mullion C Horizontal), dated 4/2/15, signed and sealed by Thomas Allan Kolden, PE, FL No. 50899.
 - ESP018829P-1676 (Vertical Mullion C), Dated 2/20/15, signed and sealed by Thomas Allan Kolden, PE, FL No. 50899.

Product Installation Instructions:

- WS0001, Rev. C, dated 9/13/21, Weather Shield Windows and Doors, *Horizontal & Vertical Mullion System - Impact Resistant Mullion Span vs. Load Width Tables - Installation Anchorage Details*, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752.
- See Appendix D of this product evaluation document.

Performance Testing: See Appendix A Matrix for more details.

- AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration Standard/Specification for windows, doors, and skylights.
- AAMA/WDMA/CSA 101/I.S.2/A440-11, North American Fenestration Standard/Specification for windows, doors, and skylights.
- ASTM E1886-13a, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
- ASTM E1996-12a, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
- TAS201-94, Impact Test Procedures.
- TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
- TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.



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Product Evaluation:

- Engineering Evaluation No. 2415, Rev. 0, Load/Span Rational Analysis for Weather Shield Windows and Doors, Horizontal & Vertical Mullion System - Impact Resistant, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752. See Appendix A and B of this product evaluation document.
- AAMA 450-10 Product Grouping Evaluation, Appendix A and C of this product evaluation document.

Limitations & Conditions of Use:

- See Anchor Installation Drawing for Design Pressure Rating.
- See Appendix C for list of products that have been evaluated for use inside the HVHZ (High Velocity Hurricane Zone).
- The mullion system product is Impact Resistance when installed with impact resistant fenestration products.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural 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.

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed
by Robert J
Amoruso
Date:
2023.12.08
14:09:10 -05'00'

Evaluated by:
Robert J. Amoruso, P.E.
FL PE License No. 49752

Appendices

Appendix No. Description

A	Testing and Rating Matrix
B	Rational Analysis Basis and Evaluation
C	Product Grouping
D	Casement and Direct Set Installation Drawings
E	Casement and Direct Set Component Drawings



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APPENDIX A – Testing and Rating Matrix															
Tested	HVHZ	Drawing Table		Mullion Type		WDMA CCL All Components	Testing Standards				AAMA 450-10 WDMA CCL	Test Report (Configuration Tested - Mullions Tested)	Mulled Window Assembly		
		Table No.	Configuration	Vertical	Horizontal		AAMA A440-08	AAMA A440-11	TAS 201/202/203	ASTM E1996-12a ASTM E1886-13a			WDMA CCL Description	Top (Transom)	Bottom
3-Way, Vertical Mull B - Horizontal Mull C	no	1	3	B	C	449-H-013.50 to 449-H-013.55	x	x		x	449-H-013.53 (Vertical) 449-H-013.54 (Horizontal)	ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal)	Twin Premium Impact Casement with Premium Impact Picture Stacked Above, Single Glazed (1209)	Picture	Casement
3-Way, Vertical Mull B - Horizontal Mull C	yes	2	3	B	C	449-H-013.65 to 449-H-013.71	x	x	x	x	449-H-013.69 (Vertical) 449-H-013.70 (Horizontal)	ESP019892P-1719 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal)	Twin Premium Casement Impact, (1209), mulled below a Premium Casement Picture Impact (1209) - Single Glazed	Casement Picture	Casement
3-Way, Vertical Mull B - Horizontal Mull C	no	3	4	B	C	449-H-013.50 to 449-H-013.55	x	x		x	449-H-013.53	ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal) - Mullion B Employed Vertically	Twin Premium Impact Casement with Premium Impact Picture Stacked Above, Single Glazed (1209)	Picture	Casement
Vertical Mull C	no	3	4	B	C	449-H-018.11 to 449-H-018.15	x	x	x	x	449-H-018.13	ESP018829P-1676 (Vertical Mullion C) - Employed Horizontally	Twin Premium Impact Picture Window, Alternate Glass (1209, 1210), Vertical Mullion	n/a	Picture
4-Way, Vertical Mull A - Horizontal Mull C)	yes	4	4	A	C	449-H-017.24 to 449-H-017.30	x	x	x	x	449-H-017.27 (Vertical) 449-H-017.28 (Horizontal)	ESP018434P-1647 (Four-Way Tested, Mullion A Vertical and Mullion C Horizontal)	Twin Premium Impact Awning with Twin Premium Impact Picture Stacked Above, Single Glazed (1209)	Picture	Awning
4-Way, Vertical Mull A - Horizontal Mull C)	yes	5	Vert.	A	n/a	449-H-017.24 to 449-H-017.30	x	x	x	x	449-H-017.27 (Vertical)	ESP018434P-1647 (Four-Way Tested, Mullion A Vertical and Mullion C Horizontal) - Mullion A Vertical Only	Twin Premium Impact Awning with Twin Premium Impact Picture Stacked Above, Single Glazed (1209)	Picture	Awning
3-Way, Vertical Mull B - Horizontal Mull C	no	6	Vert.	B	n/a	449-H-013.50 to 449-H-013.55	x	x		x	449-H-013.53 (Vertical)	ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal) - Mullion B Vertical Only	Twin Premium Impact Casement with Premium Impact Picture Stacked Above, Single Glazed (1209)	Picture	Casement
Vertical Mull C	yes	7	Vert.	C	n/a	449-H-018.11 to 449-H-018.15	x	x	x	x	449-H-018.13 (Vertical)	ESP018829P-1676 (Vertical Mullion C)	Twin Premium Impact Picture Window, Alternate Glass (1209, 1210)	n/a	Picture

See Appendix D for referenced drawings.



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Appendix B – Rational Analysis Basis and Evaluation

The following drawing load/span tables are directly associated with the following assembly testing.

- Table 1, Drawing WS0001
 - ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal), dated 4/15/15.
- Table 2, Drawing WS0001
 - ESP019892P-1719 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal), dated 5/28/15.
- Table 4, Drawing WS0001
 - ESP018434P-1647 (Four-Way Tested, Mullion A Vertical and Mullion C Horizontal), dated 4/2/15.
 - The orientation of the tested assembly is rotated 90 degrees to obtain a taller orientation of the overall assembly. As the assembly framing components are the same, orientation rotation is acceptable. See product grouping for more details.
- Table 7, Drawing WS0001
 - ESP018829P-1676 (Vertical Mullion C), Dated 2/20/15

The following drawing load/span tables and associated configurations are a derivation based on the testing results of one or a combination of the above as follows.

- Table 3, Drawing WS0001
 - ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal) - Mullion B Employed Vertically
 - ESP018829P-1676 (Vertical Mullion C) - Employed Horizontally
- Table 5, Drawing WS0001
 - ESP018434P-1647 (Four-Way Tested, Mullion A Vertical and Mullion C Horizontal) - Mullion A Vertical Only
- Table 6, Drawing WS0001
 - ESP018974P-1682 (3-Way Tested, Mullion B Vertical & Mullion C Horizontal) - Mullion B Vertical Only

For Tables 5 and 6 above, the vertical mullion of a 4-way or 3-way tested assembly has been broken-out as a vertical mullion only assembly.

For Table 3, the vertical mullion C of ESP018829P-1676 is employed horizontally and shall be continuous. The upper and lower tributary areas are based on a span of 83.5" and height of 71.5". The upper (transom) area is subdivided using a vertical mullion B as is the lower area vertical mullion, equating this portion of the assembly to that of the vertical mullion B of ESP018974P-1682. This purpose of the derivation on the tested assemblies is to maintain a tributary loading area equal to that employed in ESP018829P-1676 and subdividing the upper and lower areas to create a 4-way combination using vertical mullion B as testing in the lower portion of 3-way assembly ESP018974P-1682.

See Engineering Evaluation No. 2415, Rev. 0 for development of the load width/span tables presented in drawing number WS0001.



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Appendix C – Product Grouping

The products covered in this analysis are the Weather Shield Premium Casement, Awning, Direct Set, Fixed, Picture and French Casement lines. The list below summarizes the grouped products. Several window operator types are built using the same core window frame with slight variations in the interior trim to conceal the hardware and fasteners that secure the sash to the frame. The engineering analysis and product grouping to both be done using the core frame and mullion stiffeners as the structural components with contribution of the trim pieces, which are lightly tacked to the frame, disregarded.

The core components of the window frame are shown on page 9 of the Premium Coastal Mullion memo, 45-00677. They are a PVC extrusion described in detail on page 11, 45-00646, and a wood interior jamb described on page 13, 45-00665.

There are 3 variations of the mullion assemblies built with this frame. See Appendix D for referenced drawings.

- Unreinforced mullion shown on page 2, 85-7444-35. Mullion “A” in Drawing No. WS0001.
- Reinforced tight mull with 1/16” x4” steel stiffener shown on page 3, 85-7444-45. Mullion “B” in Drawing No. WS0001.
- Reinforced spread mull with 1/2” x 4” aluminum stiffener shown and page 4, 85-11602-01. Mullion “C” in Drawing No. WS0001.

The following table shows the product grouping employed. Appendix A shows the products tested that make up the core components of the window framing members.

See Appendix D and E for the referenced drawings.

Wood profile is shown in drawing no. 85-7886-01. Vinyl profile is shown in drawing no. 85-7354-01. The products listed in the following table whose jamb construction is shown in the referenced installation drawings are enveloped by the previously aforementioned AAMA 450 testing.

The Direct Glazed Windows – no Sash listed in the following table under Product Approval number FL17694 are enveloped due to their stronger profile wood and aluminum components. That analysis follows the table below.



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Casements -- Glazed Sash in Frames							
FPA #s	TYPE	ATTACHMENT	SINGLE GLAZE IMPACT	DUAL GLAZE IMPACT	STANDARD NON-IMPACT	INSTALLATION DRAWING	CONFIGURATION
FL12786 FL17697	Awnings	Fin	1209	1210	8211	85-7438-36	Single
	Awnings	Mulled	1209	1210	8211	85-7815-21	Mulled
	Awnings	Clip	1209	1210	8211	85-7438-37	Single
	Awnings	Jamb	1209	1210	8211	85-7438-38	Single
FL17017	Casements	Fin	1209	1210	8211	85-7438-36	Single
	Casements	Mulled	1209	1210	8211	85-7815-21	Mulled
	Casements	Clip	1209	1210	8211	85-7438-37	Single
	Casements	Jamb	1209	1210	8211	85-7438-38	Single
FL30452	Csmt Round Top	Fin		1210		45-22366	Single
	Csmt Round Top	Clip		1210		45-22377	Single
	Csmt Round Top	Jamb		1210		45-22376	Single
	Csmt Eyebrow	Fin		1210		45-22388	Mulled
	Csmt Eyebrow	Clip		1210		45-22379	Mulled
	Csmt Eyebrow	Jamb		1210		45-22391	Mulled
FL28787	Casement Picture	Fin	1209	1210		85-7438-27	Single
	Casement Picture	Fin	1209	1210		85-7438-27	Mulled



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Casements -- Glazed Sash in Frames							
FPA #s	TYPE	ATTACHMENT	SINGLE GLAZE IMPACT	DUAL GLAZE IMPACT	STANDARD NON-IMPACT	INSTALLATION DRAWING	CONFIGURATION
FL17694	Casement Picture	Fin	1209	1210	8211	85-7438-36	Single
	Casement Picture	Mulled	1209	1210	8211	85-7815-21	Mulled
	Casement Picture	Clip	1209	1210	8211	85-7438-37	Single
	Casement Picture	Jamb	1209	1210	8211	85-7438-38	Single
FL14696	Casement Picture	Fin			8211	85-7438-28	Single
	Casement Picture	Fin			8211	85-7438-29	Mulled
	Casement Picture	Fin	1209	1210		85-7815-15	Single
	Casement Picture	Fin	1209	1210		85-7815-15	Mulled
FL37186 FL30452	French Casement	Fin		1212	8214	45-24910	Single
FL17017 FL30918 FL30452	Pushout Casement	Fin		1214	8213, 8217	45-33149	Single
Direct Glazed Windows -- No Sash							
FPA #s	TYPE	ATTACHMENT	SINGLE GLAZE IMPACT	DUAL GLAZE IMPACT	STANDARD NON-IMPACT	INSTALLATION DRAWING	CONFIGURATION
FL17694	Direct Set	Fin	1309	1310	8306	85-7430-35	Single
	Direct Set	Mulled	1309	1310	8306	85-7849-15	Mulled
	Direct Set	Clip	1309	1310	8306	85-7849-13	Single
	Direct Set	Jamb	1309	1310	8306	85-7849-14	Mulled
FL28787	Direct Set	Fin		1310	8306 & 8312	85-7430-35	Single
	Direct Set	Clip		1310		85-7430-35	Single
	Direct Set	Jamb		1310		85-7430-35	Single
FL14696	Direct Set	Jamb			8306 & 8312	85-7430-35	Single

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Basic Grouping Discussion:

There are 2 basic window types grouped: a sashed casement and a sashless direct set.

The sashed casement family of windows all share the same frame and sash components. The differences are the hardware used to attach the sash to the frame, some of the interior trim pieces that conceal the hardware, and the types of glass used.

There are standard casement, awning, and picture windows. These are all referred to as 8211.

There is a casement with simpler operating hardware. This is the 8213 push out casement.

There is a casement with a pair of sashes rather than a single sash. This is the 8214 French casement.

All these windows will eventually be available as impact windows.

There is a direct glazed window, the 8306 direct set.

The numbers change when impact glass is used.

Single glazed casements become 1209. Dual glazed casements become 1210, 1212 or 1214

Single glazed direct sets become 1309. Dual glazed direct sets become 1310.

The sashed casement windows are represented in the AAMA 450 testing. The direct set – no sash windows are enveloped by the AAMA 450 testing based on the following evaluation.

Direct Set – No Sash Product Grouping Evaluation (See Appendix E for Component Drawings referred to below).

The comparison of the Moment of Inertia of the tested Casement Sash (8306) with the Direct Set (8211) shown below, shows that the Direct Set framing components exhibit an overall stronger profile.

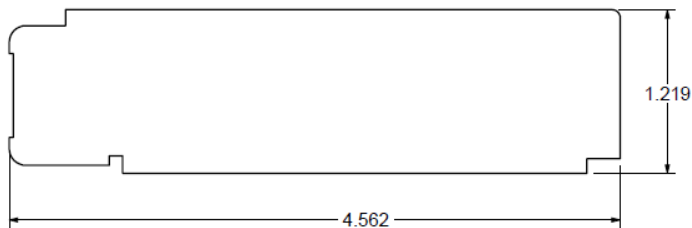
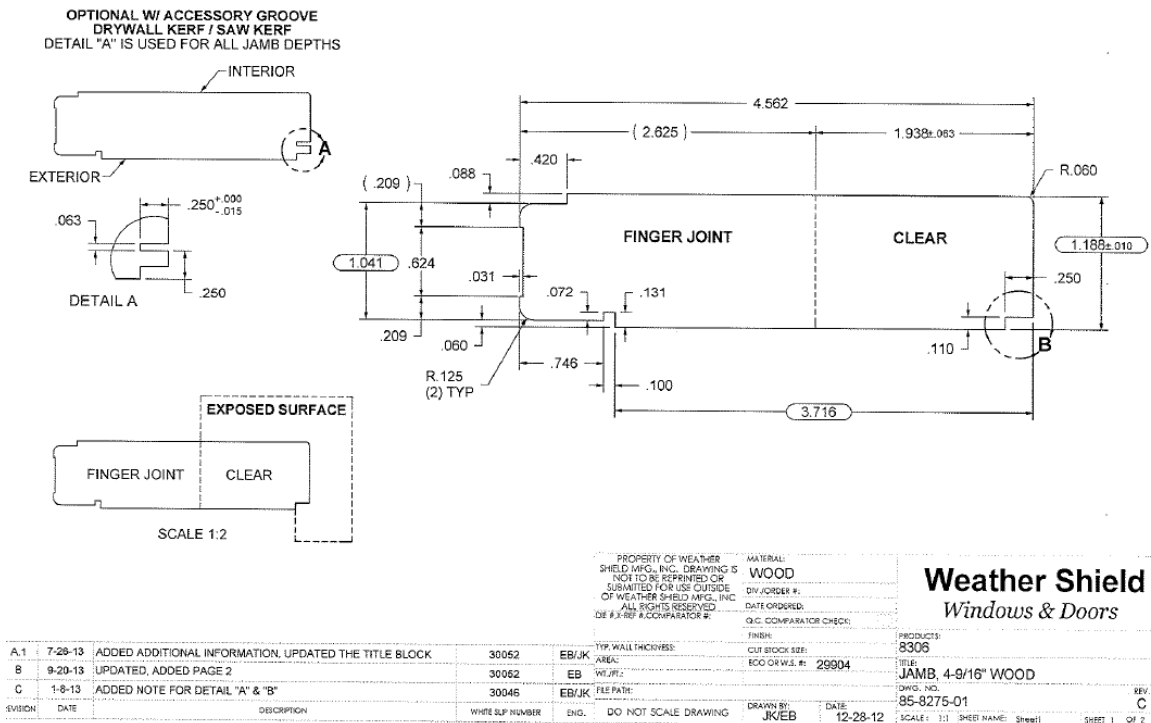
Product	Description	Drawing	Moment	Material	MOE/MOE _{WOOD}	I (in ⁴)
8211 (tested)	Frame	45-00662	1.464	Wood	-	1.464
	Nosing	45-00646	0.375	Vinyl	.049/1.3	0.014
						1.478
8306 (compared)	Frame	45-00665	8.965	Wood	-	8.965
	Nosing	45-00664	0.115	AL	10/1.3	0.885
						9.850
8213, 8214, 8217 (compared)	Frame	45-00665	8.965	Wood	-	8.965
	Nosing	45-00664	0.115	AL	10/1.3	0.885
						9.850



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Direct Set Component Drawings



Area = 5.399

Perimeter = 9.162

Centroid
X = 0.000
Y = 0.000

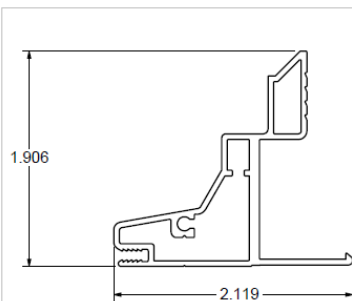
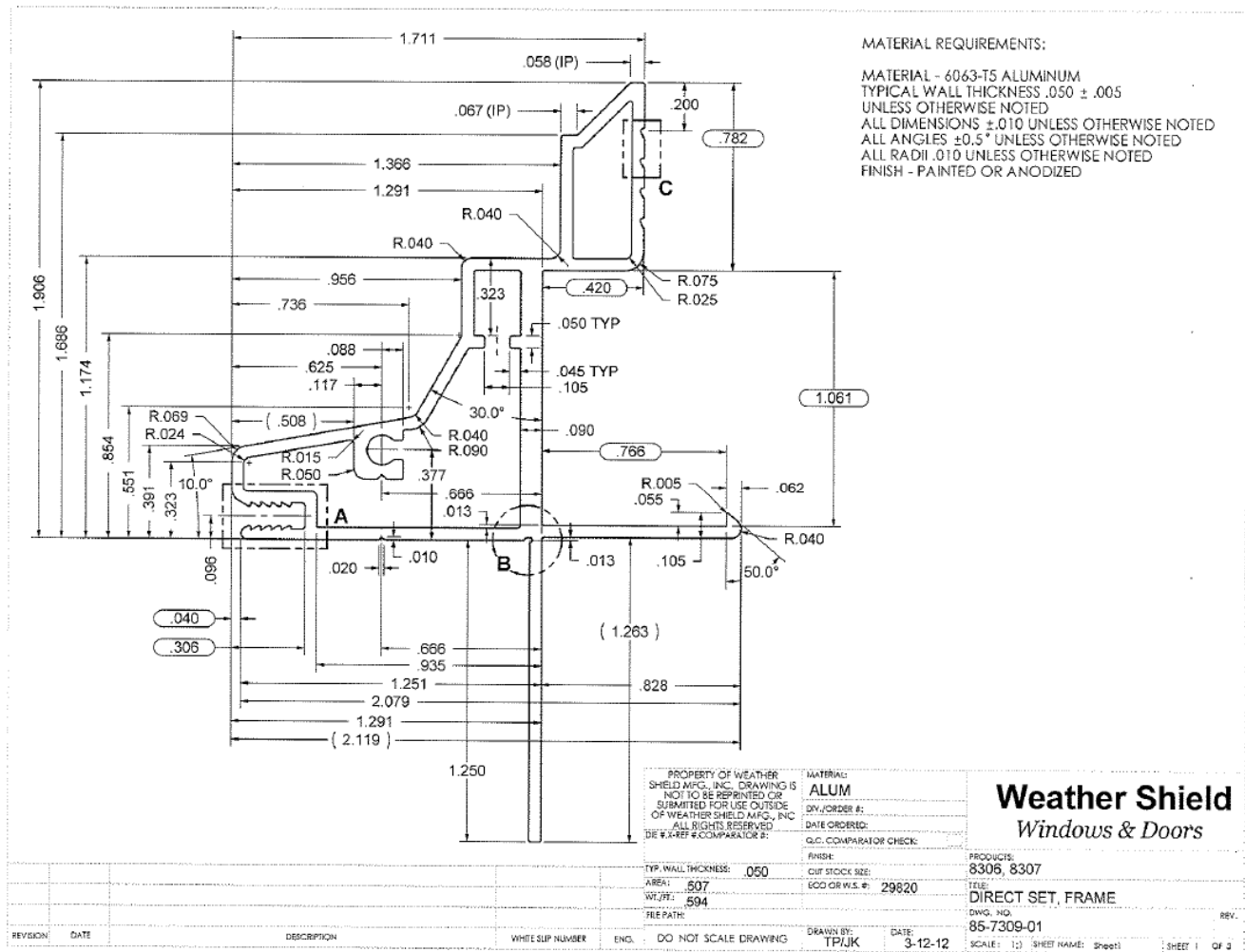
Bounding Box
X: -2.319 X: 2.243
Y: -0.614 Y: 0.605

Moments of inertia of the area, at the centroid
X = 0.026
Y = 8.965

Radii of gyration:
X: 0.069
Y: 1.287

Principal moments of inertia of the area, at the centroid
Mx: 0.643
My: 8.965





Area = 0.445

Perimeter = 9.162

Centroid $X = 0.000$
 $Y = 0.000$

Bounding Box X: -1.068 X: 1.051
Y: -0.636 Y: 1.270

Moments of inertia of the area, at the centroid
 $X = 0.058$
 $Y = .115$

Radii of gyration: X: 0.361
Y: 0.508

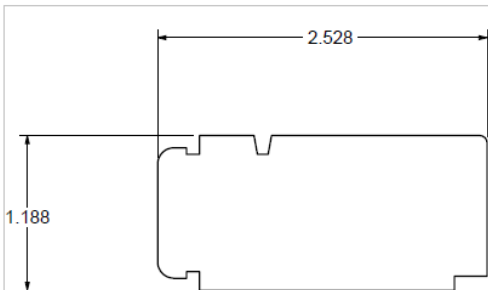
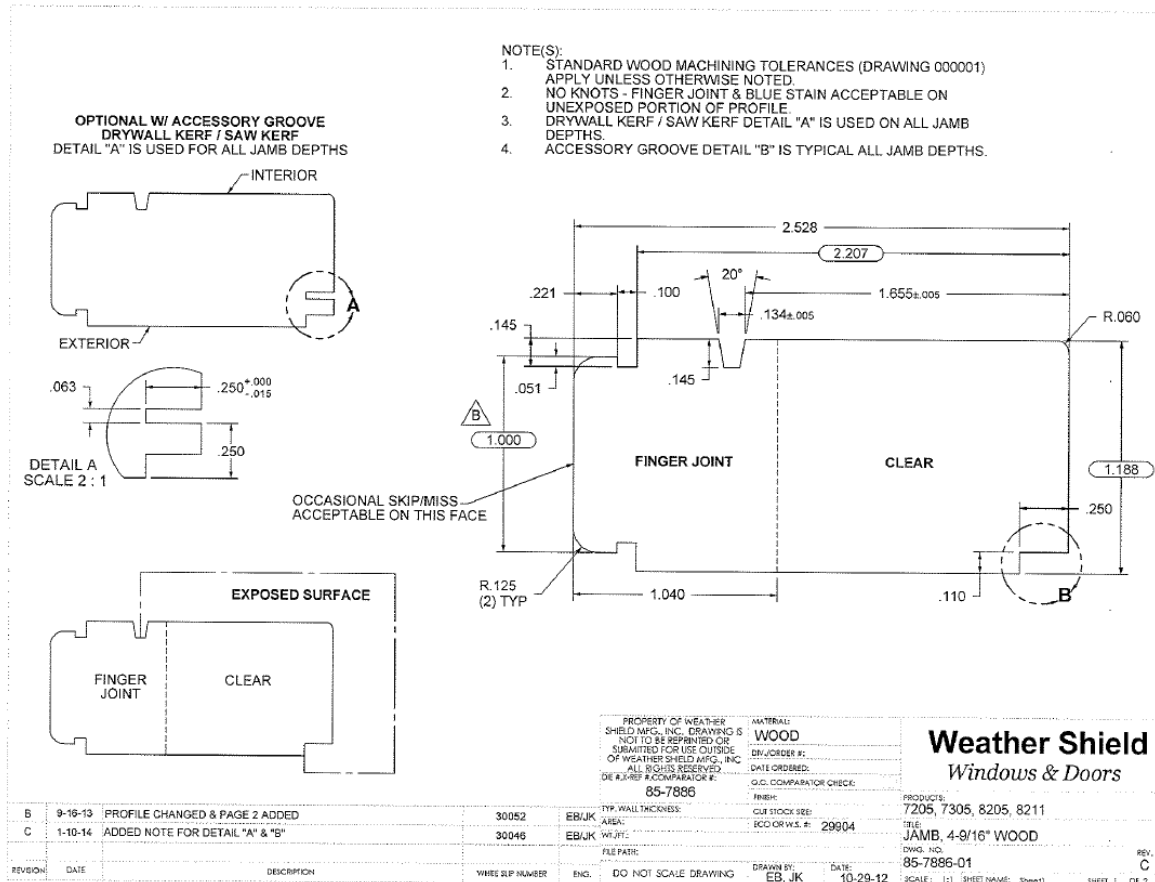
Angle between principal axes and part axes = 50.513 degrees

Principal moments of inertia of the area, at the centroid
 M_x : 0.067
 M_y : 0.186

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Sashed Casement Component Drawings



Area = 2.882 inches²

Perimeter = 7.746

Centroid
X = 0.000
Y = 0.000

Bounding Box
X: -1.285 X: 1.243
Y: -0.596 Y: 0.592

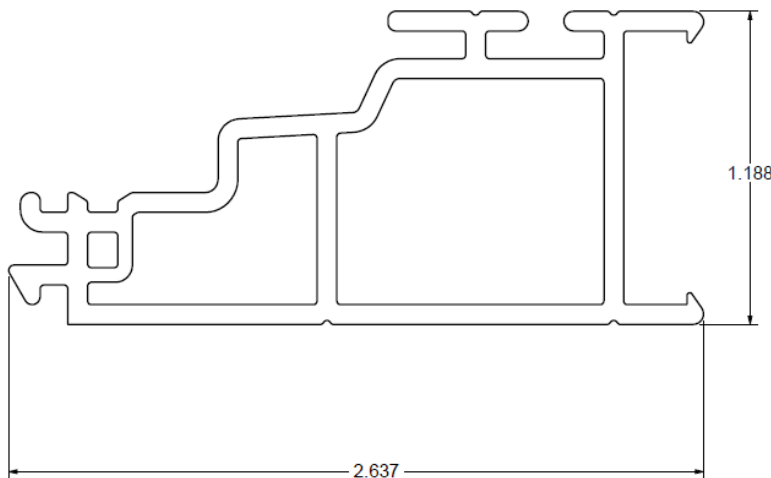
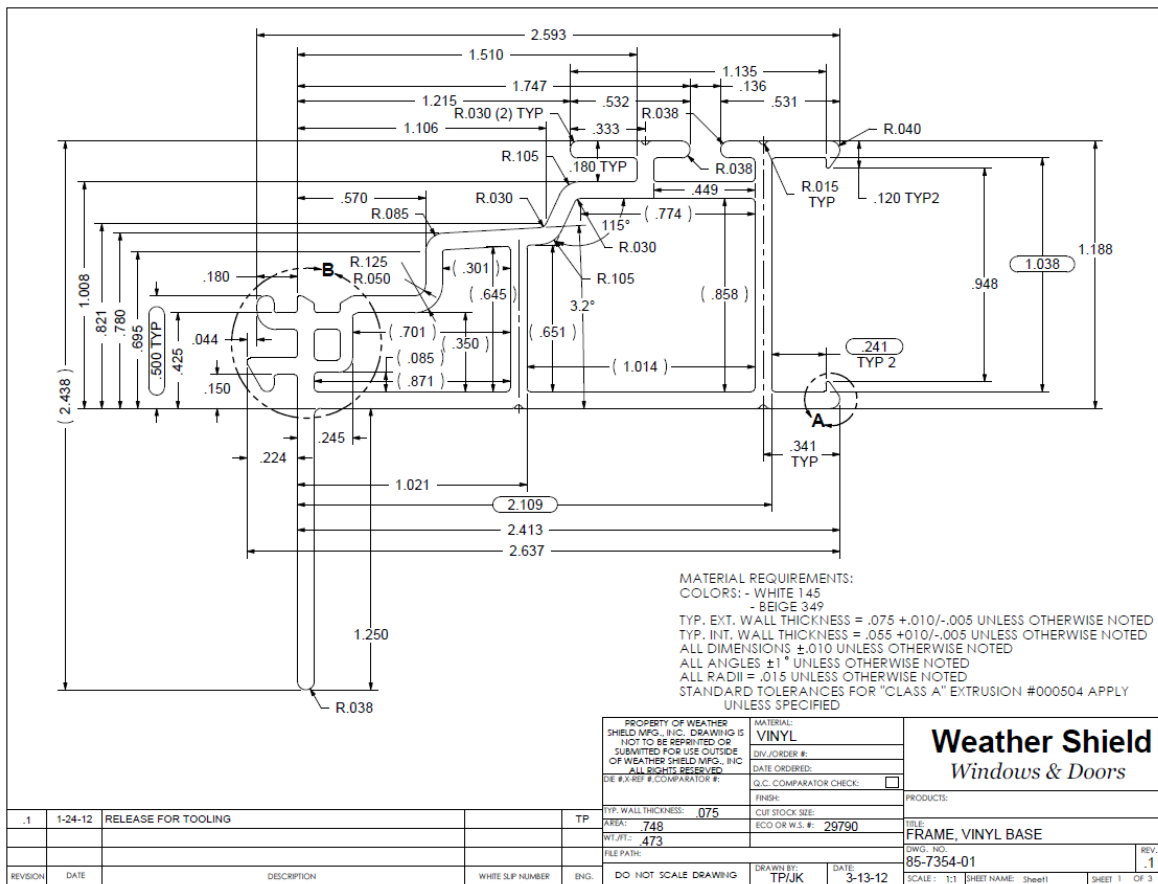
Moments of inertia of the area, at the centroid: (inches ⁴)
X = 0.020
Y = 1.464

Radii of gyration: X: 0.0833
Y: 0.712

Angle between principal axes and part axes = 1.000 degrees

Principal moments of inertia of the area, at the centroid: (inches ⁴)
I_x = 0.318
I_y = 1.464





Area = 0.655

Perimeter = 10.187

Centroid $X = 0.000$
 $Y = 0.000$

Bounding Box	X: -1.384	X: 1.188
	Y: -0.497	Y: 0.691

Moments of inertia of the area, at the centroid

$X = .073$

$Y = .375$

Radii of gyration: X: 0.334
Y: 0.757

Angle between principal axes and part axes = 14.418 degrees

Principal moments of inertia of the area, at the centroid

Mx: 0.090

My: 0.394

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Jamb for 8213, 8214 and 8217



Section properties of Sketch1 of 85-7886

Area = 2.882 inches²

Centroid relative to sketch origin: (inches)

X = 0.814

Y = -0.006

Centroid relative to part origin: (inches)

X = 0.814

Y = -0.006

Z = 0.000

Moments of inertia of the area, at the centroid: (inches⁴)

I_{xx} = 0.319

I_{xy} = -0.020

I_{xz} = 0.000

I_{yy} = -0.020

I_{yz} = 0.000

I_{zz} = 0.000

I_{zy} = 1.782

Polar moment of inertia of the area, at the centroid = 1.782 inches⁴

Angle between principal axes and sketch axes = 1.000 degrees

Principal moments of inertia of the area, at the centroid: (inches⁴)

M_x = 0.318

M_y = 1.464

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
X ± .1"	XX ± 1°
XX ± .03"	XXX ± .5° (1/2")
XXX ± .015"	XXX ± .25° (1/4")

WEATHER SHIELD.
WINDOWS & DOORS

TYP. WALL THICKNESS:

PRODUCTS:

8213, 8214, 8217

WT/FT:

AREA:

DRAWN BY:

DATE:

TITLE:

JAMB

MAT:

FINISH:

DIE TOOL:

CUT STOCK:

PROPERTY OF WEATHER SHIELD MFG., INC.
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SUBMITTED FOR USE OUTSIDE OF
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DWG. NO.:

45-33158

REV

REV	DATE	DESCRIPTION	PCR NO.	ENG	FOR # / TEST / CERT	PROFILE #85-7886	SCALE: 1:1	SHEET NAME: Sheet1	SHEET 1 OF 1
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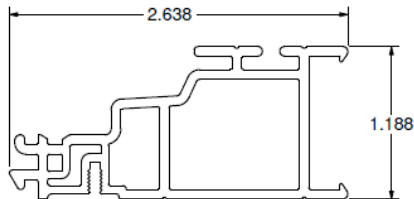
DO NOT SCALE DRAWING



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Nose for 8213, 8214 and 8217



Section properties of Sketch1 of 45-33156

Area = 0.684 inches²

Centroid relative to sketch origin: (inches)

X = 2.256

Y = 1.742

Centroid relative to part origin: (inches)

X = 2.256

Y = 1.742

Z = 0.000

Moments of inertia of the area, at the centroid: (inches⁴)

Lxx = 0.108

Lxy = -0.075

Lxz = 0.000

Lyx = -0.075

Lyx = 0.388

Lyz = 0.000

Lzx = 0.000

Lzy = 0.000

Lzz = 0.496

Polar moment of inertia of the area, at the centroid = 0.496 inches⁴

Angle between principal axes and sketch axes = 14.152 degrees

Principal moments of inertia of the area, at the centroid: (inches⁴)

Mx = 0.089

My = 0.407

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XXX ± .5° (1/2")
.XXX ± .015"	XXXX ± .25° (1/4")

WEATHER SHIELD.
WINDOWS & DOORS

TYP. WALL THICKNESS:

PRODUCTS:
8213, 8214, 8217

WT./FT:

AREA:

DRAWN BY:

DATE:

TITLE:

MAT:

FINISH:

JLK/CJA

9/8/2021

FRAME, BASE

DIE TOOL:

CUT STOCK:

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DWG NO.:

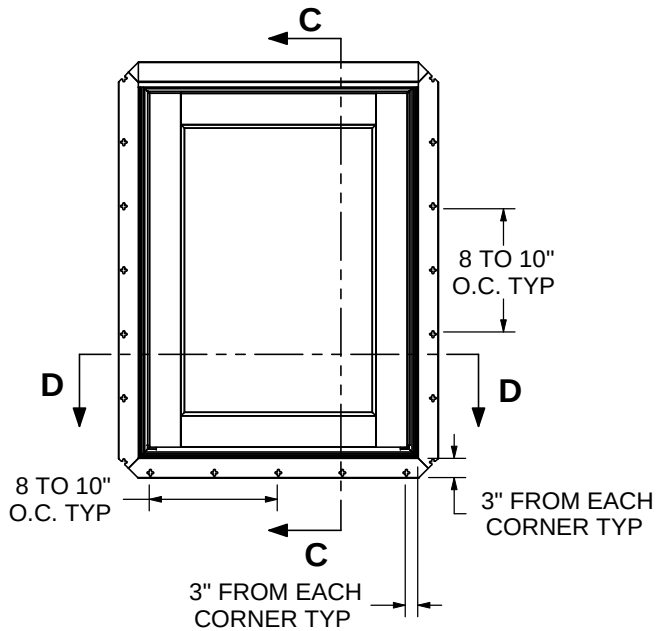
45-33157

REV

REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #	TEST / CERT	PROFILE #	45-33156	SCALE: 1:1	SHEET NAME: Sheet1	SHEET 1	OF 1
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DO NOT SCALE DRAWING





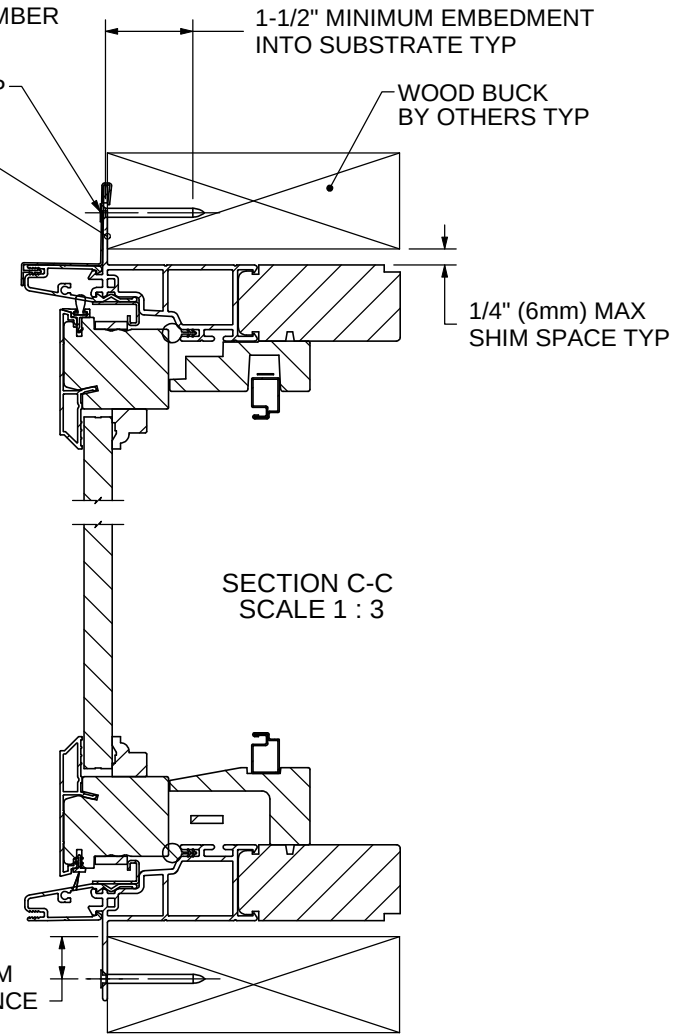
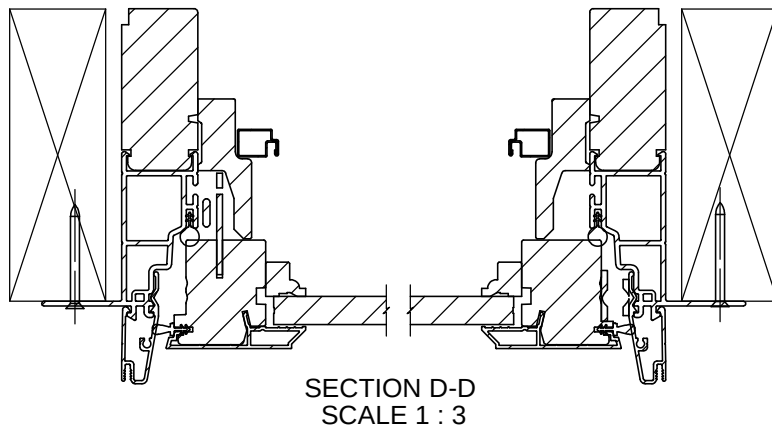
#6 NON-CORROSIVE SCREWS
1-1/2" MIN PENETRATION INTO FRAMING MEMBER
3" FROM EACH CORNER
8-10" ON CENTER THROUGH NAILING FIN
AROUND THE UNITS ENTIRE PERIMETER TYP

USE SILICONE SEALANT
AROUND ENTIRE PERIMETER
BETWEEN NAILING FIN &
WOOD BUCK BY OTHERS TYP

Weather Shield

Windows & Doors

1209, 1210, 8211
CASEMENT, AWNING, AND PICTURE
NAILING FIN INSTALLATION

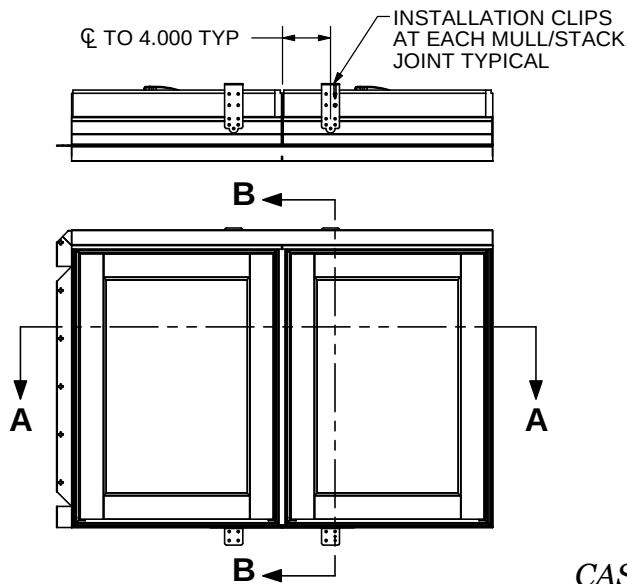


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NOTE(S):

1. DIMENSIONED VIEWS ARE TYPICAL FOR ALL CROSS SECTION DETAILS.

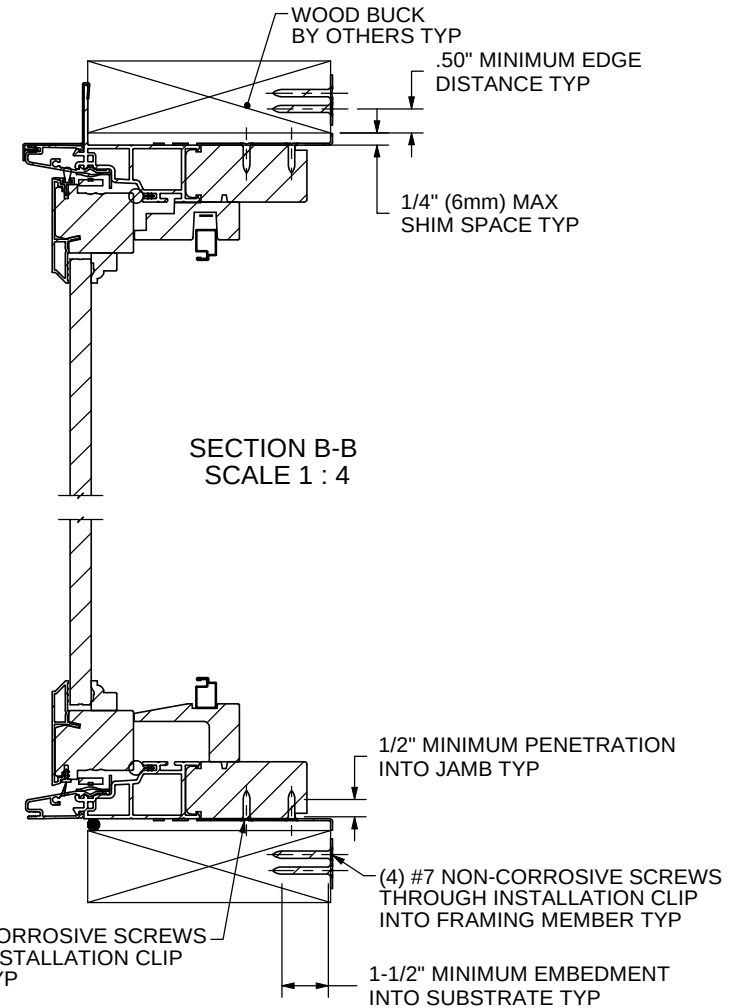
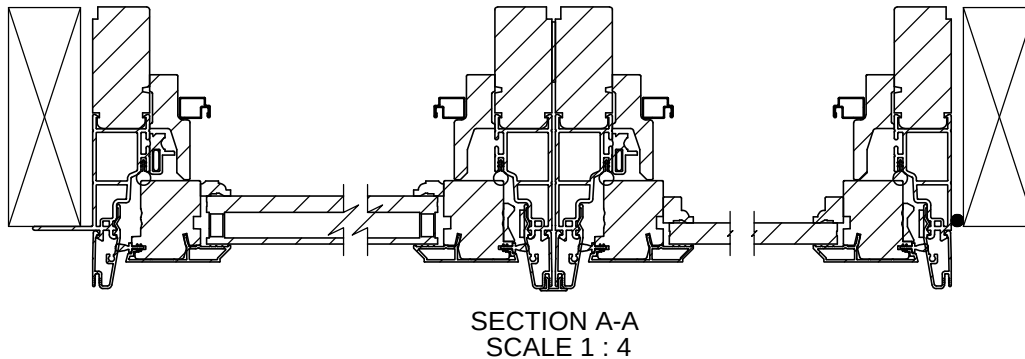
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WT./FT.:		ECO OR W.S. #: 30166					
FILE PATH:							
REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING	DRAWN BY: JK/EB	DATE: 10-30-14



REFERENCE DRAWING NUMBER 85-7438-36 FOR THE INDIVIDUAL UNIT NAIL FIN INSTALLATION METHOD.
 REFERENCE DRAWING NUMBER 85-7438-37 FOR THE INDIVIDUAL UNIT INSTALLATION CLIP INSTALLATION METHOD.
 REFERENCE DRAWING NUMBER 85-7438-38 FOR THE INDIVIDUAL UNIT THROUGH THE JAMB INSTALLATION METHOD.

Weather Shield Windows & Doors

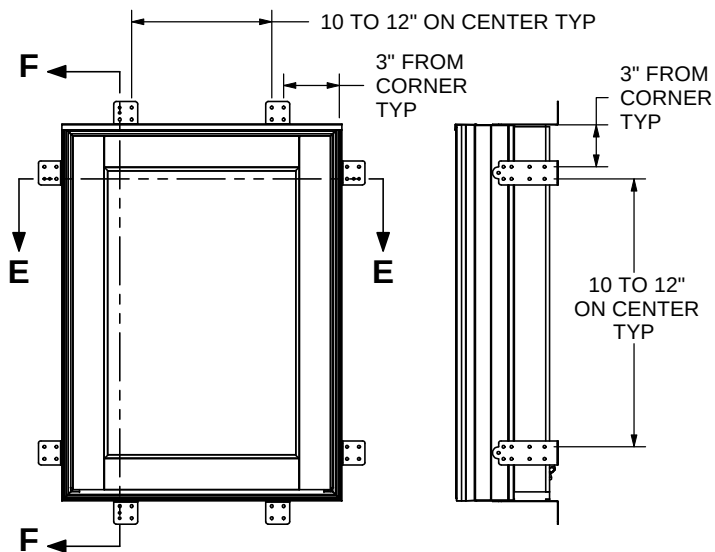
1209, 1210, 8211
 CASEMENT, AWNING, AND PICTURE
 MULLION INSTALLATION



NOTE(S):
 1. DIMENSIONED VIEWS ARE TYPICAL FOR ALL CROSS SECTION DETAILS.

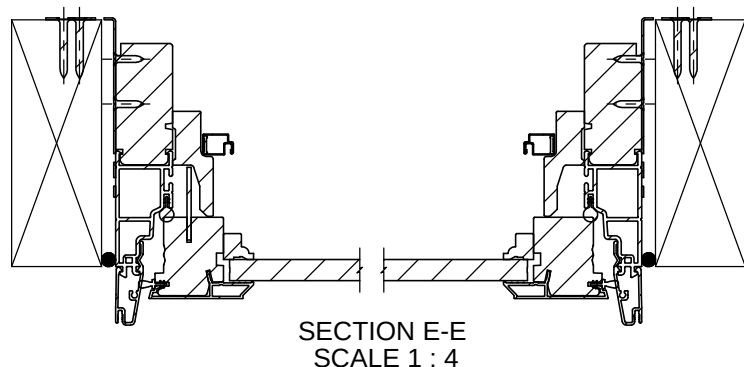
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DIE #, X-REF #, COMPARATOR #:		DIV./ORDER #:		
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AREA:		Q.C. COMPARATOR CHECK: ☐		
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FILE PATH:		CUT STOCK SIZE:		1209, 1210, 8211 TWIN
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				DWG. NO.
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		DRAWN BY: JK/EB		SHEET NAME: Sheet1
		DATE: 10-30-14		SHEET 1 OF 1

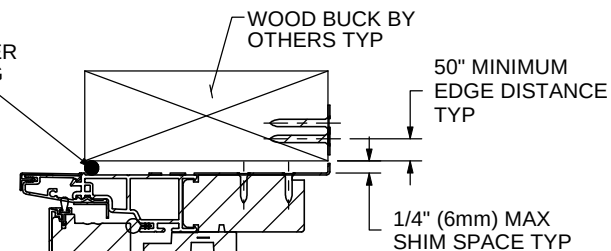


Weather Shield Windows & Doors

1209, 1210, 8211
CASEMENT, AWNING, AND PICTURE
Installation Clip
INSTALLATION METHOD



USE SILICONE SEALANT
AROUND ENTIRE PERIMETER
BETWEEN JAMB & FRAMING
MEMBER BY OTHERS TYP



(4) #6 NON-CORROSIVE SCREWS
THROUGH INSTALLATION CLIP
INTO UNIT TYP

1/2" MINIMUM PENETRATION
INTO JAMB TYP

(4) #7 NON-CORROSIVE SCREWS
THROUGH INSTALLATION CLIP
INTO FRAMING MEMBER TYP

1-1/2" MINIMUM EMBEDMENT
INTO SUBSTRATE TYP

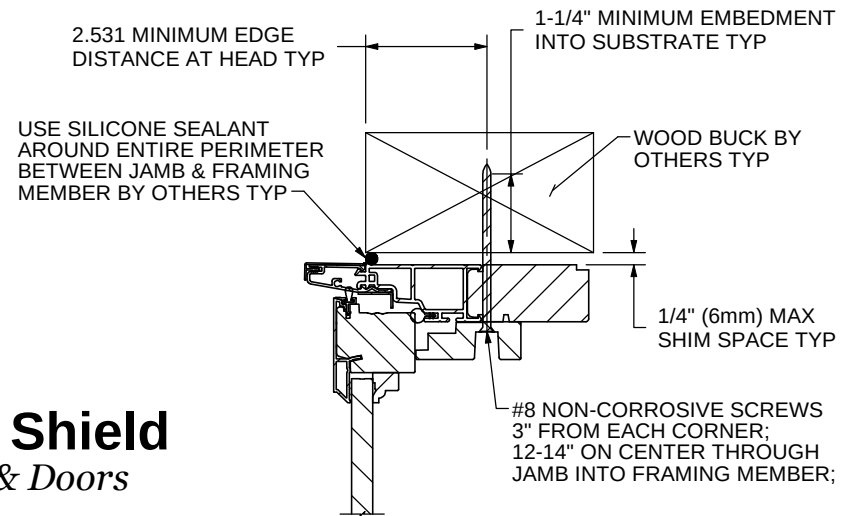
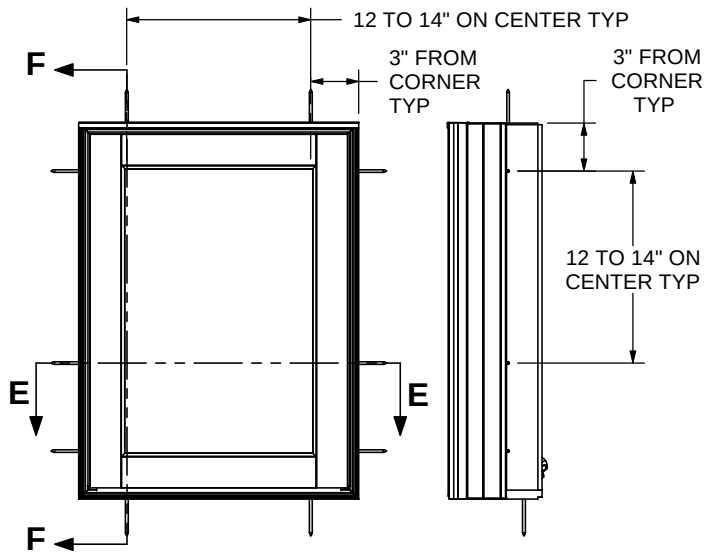
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NOTE(S):

1. DIMENSIONED VIEWS ARE TYPICAL FOR ALL CROSS SECTION DETAILS.

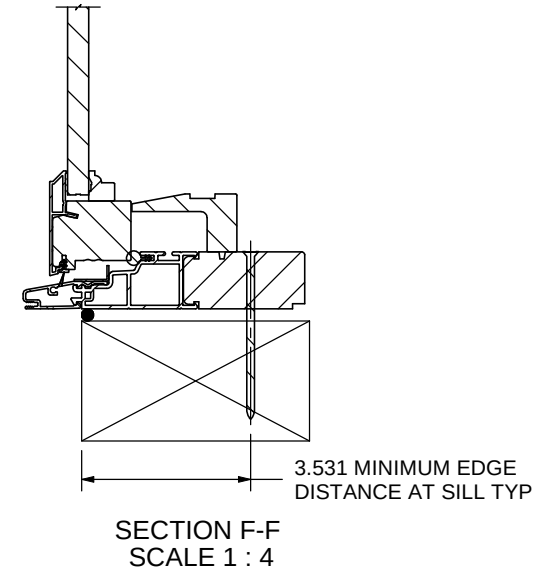
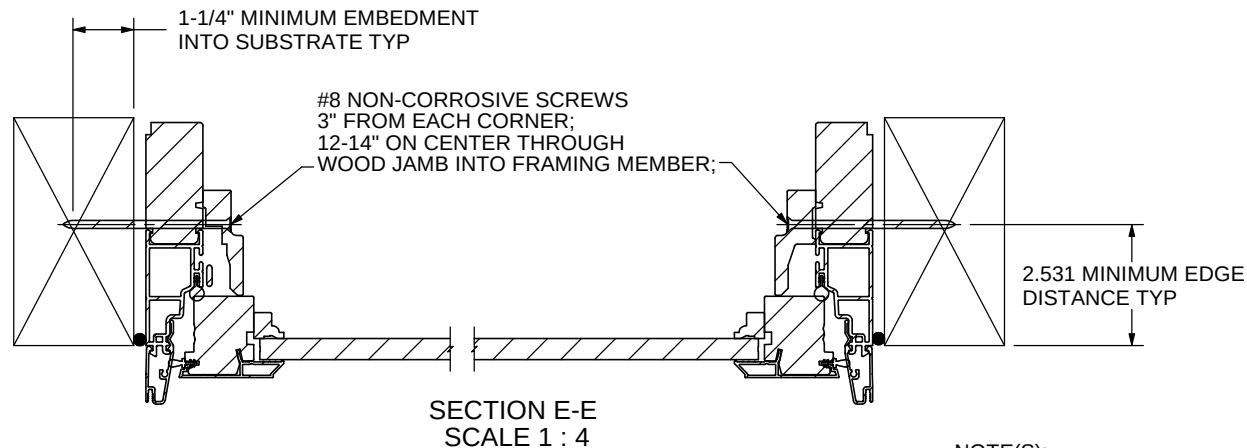
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DIE #, X-REF #, COMPARATOR #:		DIV./ORDER #:		
TYP. WALL THICKNESS:		DATE ORDERED:		
AREA:		Q.C. COMPARATOR CHECK: ☐		
WT./FT.:		FINISH:		PRODUCTS:
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REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.



Weather Shield Windows & Doors

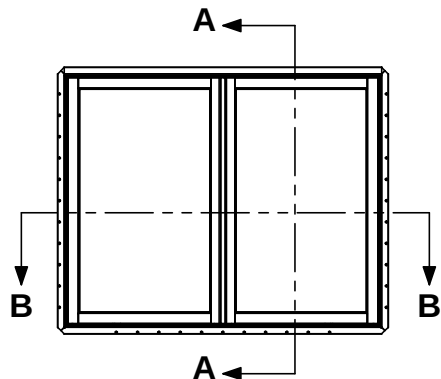
1209, 1210, 8211
CASEMENT, AWNING AND PICTURE
THRU THE JAMB INSTALLATION



NOTE(S):
1. DIMENSIONED VIEWS ARE TYPICAL FOR ALL CROSS SECTION DETAILS.

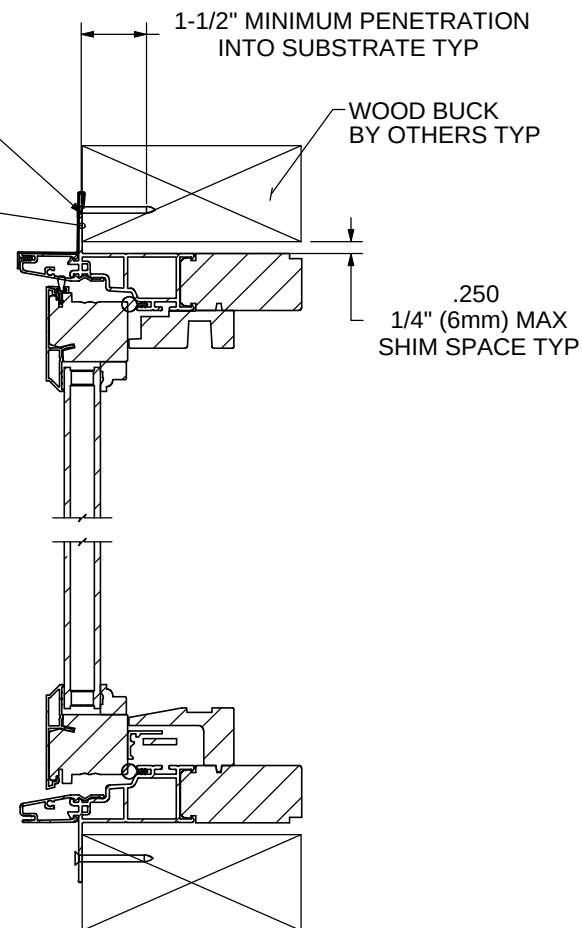
THIS SCHEDULE ADDRESSES ONLY THE FASTENERS REQUIRED TO ANCHOR THE WINDOW(S) TO ACHIEVE THE RATED DESIGN PRESSURE. THOROUGHLY READ AND FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS RECEIVED WITH UNIT. THIS GUIDE DOES NOT ADDRESS THE SEALING CONSIDERATIONS THAT MAY ARISE IN DIFFERENT WALL CONDITIONS.

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		DIV./ORDER #:					
		DATE ORDERED:					
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TYP. WALL THICKNESS:		FINISH:		REV.			
AREA:		CUT STOCK SIZE:					
WT./FT.:		ECO OR W.S. #: 30166					
FILE PATH:							
REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING	DRAWN BY: JK/EB	DATE: 10-30-14



#6 X (1-5/8") NON-CORROSIVE SCREW
1-1/2" MIN PENETRATION INTO FRAMING MEMBER
8-10" ON CENTER THROUGH NAILING FIN
AROUND THE UNITS ENTIRE PERIMETER TYP

USE SILICONE SEALANT
AROUND ENTIRE PERIMETER
BETWEEN NAILING FIN &
WOOD BUCK BY OTHERS TYP

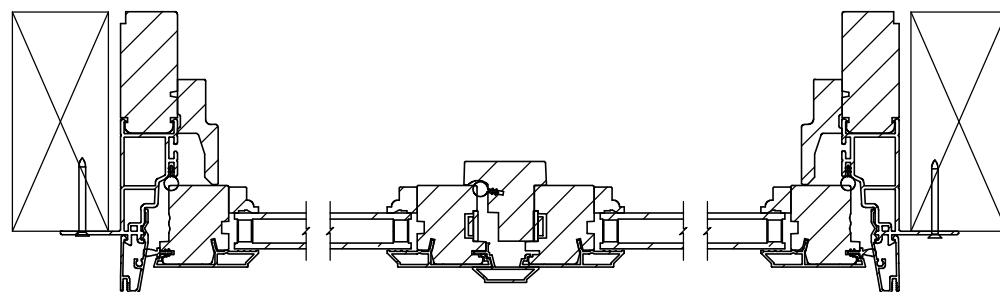


Weather Shield

Windows & Doors

8214 French Casement

NAILING FIN INSTALLATION



SECTION B-B
SCALE 1 : 4

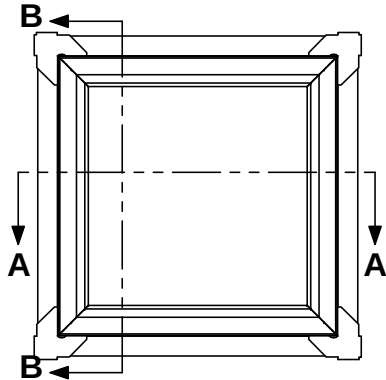
SECTION A-A
SCALE 1 : 4

1-1/2" MINIMUM PENETRATION
INTO SUBSTRATE TYP

THIS SCHEDULE ADDRESSES ONLY THE FASTENERS REQUIRED TO ANCHOR THE WINDOW(S) TO ACHIEVE THE RATED DESIGN PRESSURE. THOROUGHLY READ AND FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS RECEIVED WITH UNIT. THIS GUIDE DOES NOT ADDRESS THE SEALING CONSIDERATIONS THAT MAY ARISE IN DIFFERENT WALL CONDITIONS.

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TYP. WALL THICKNESS:		CUT STOCK SIZE:			
AREA:		ECO OR W.S. #:			
WT./FT.:					
FILE PATH:					
DO NOT SCALE DRAWING		DRAWN BY: JK/DT		DATE: 7-28-14	

REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.



#6 NON-CORROSIVE SCREWS
 1-1/2" MIN PENETRATION INTO FRAMING MEMBER
 3" FROM CORNERS
 8-10" ON CENTER THROUGH NAILING FIN
 AROUND THE UNITS ENTIRE PERIMETER TYP

USE SILICONE SEALANT
 AROUND ENTIRE PERIMETER
 BETWEEN NAILING FIN &
 WOOD BUCK BY OTHERS TYP

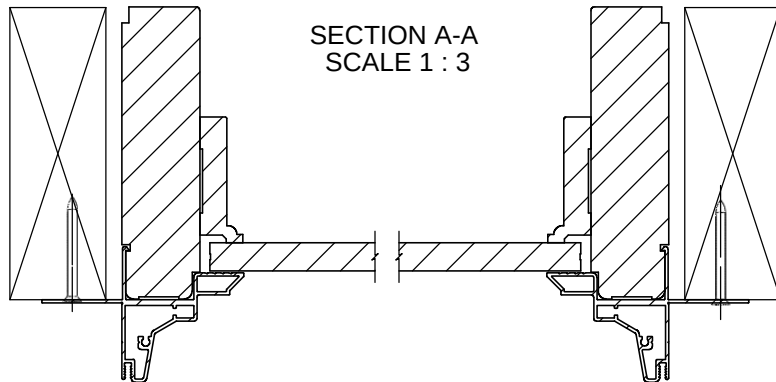
1-1/2" MINIMUM EMBEDMENT
 INTO SUBSTRATE TYP

WOOD BUCK
 BY OTHERS TYP

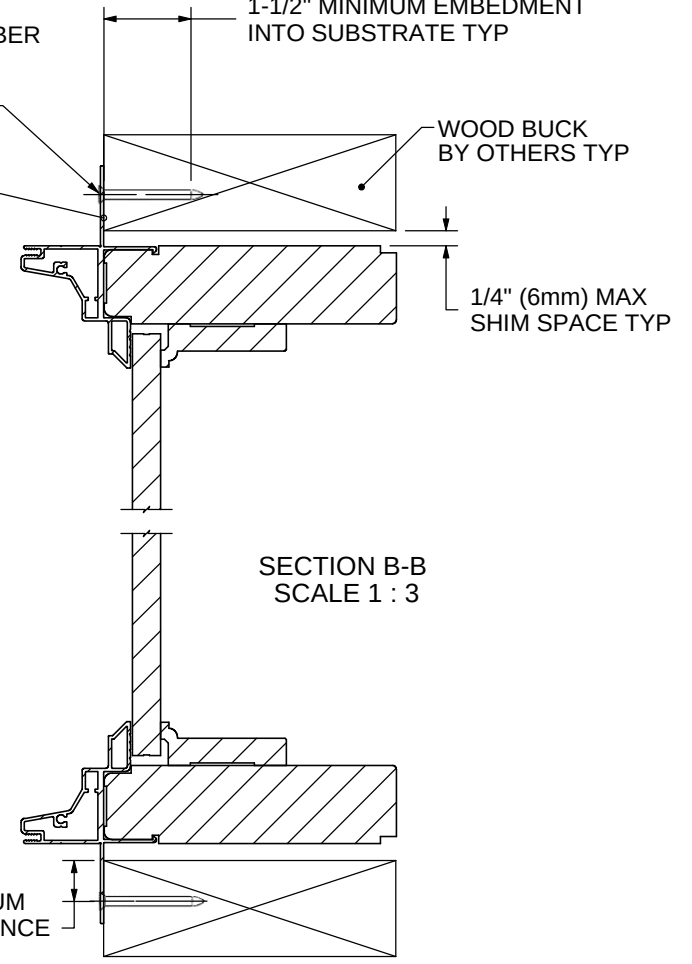
1/4" (6mm) MAX
 SHIM SPACE TYP

Weather Shield Windows & Doors

1309, 1310, 8306 Direct Set
 NAILING FIN INSTALLATION



SECTION A-A
 SCALE 1 : 3



SECTION B-B
 SCALE 1 : 3

.625" MINIMUM
 EDGE DISTANCE
 TYP

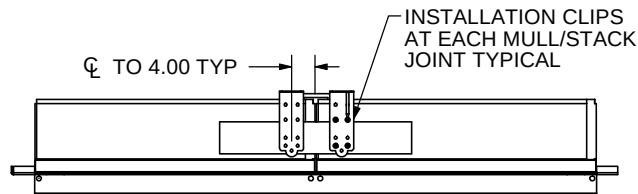
NOTE(S):

1. DIMENSIONED VIEWS ARE TYPICAL FOR ALL CROSS SECTION DETAILS.

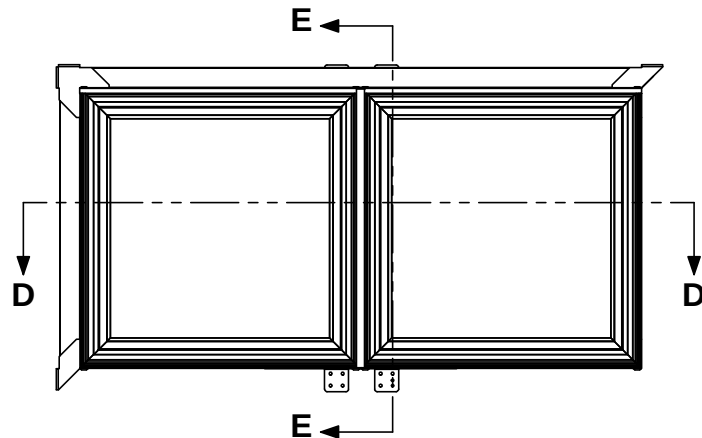
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REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.

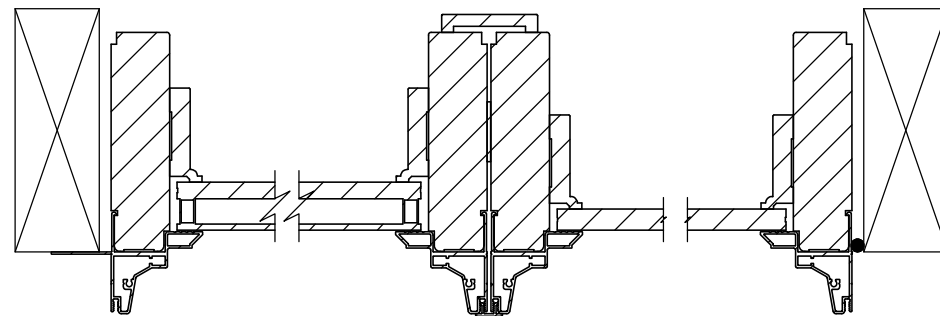


REFERENCE 85-7430-35 FOR INDIVIDUAL UNIT NAIL FIN INSTALLATION METHOD
 REFERENCE 85-7849-13 FOR INDIVIDUAL UNIT INSTALLATION CLIP INSTALLATION METHOD
 REFERENCE 85-7849-14 FOR INDIVIDUAL UNIT THROUGH JAMB INSTALLATION METHOD

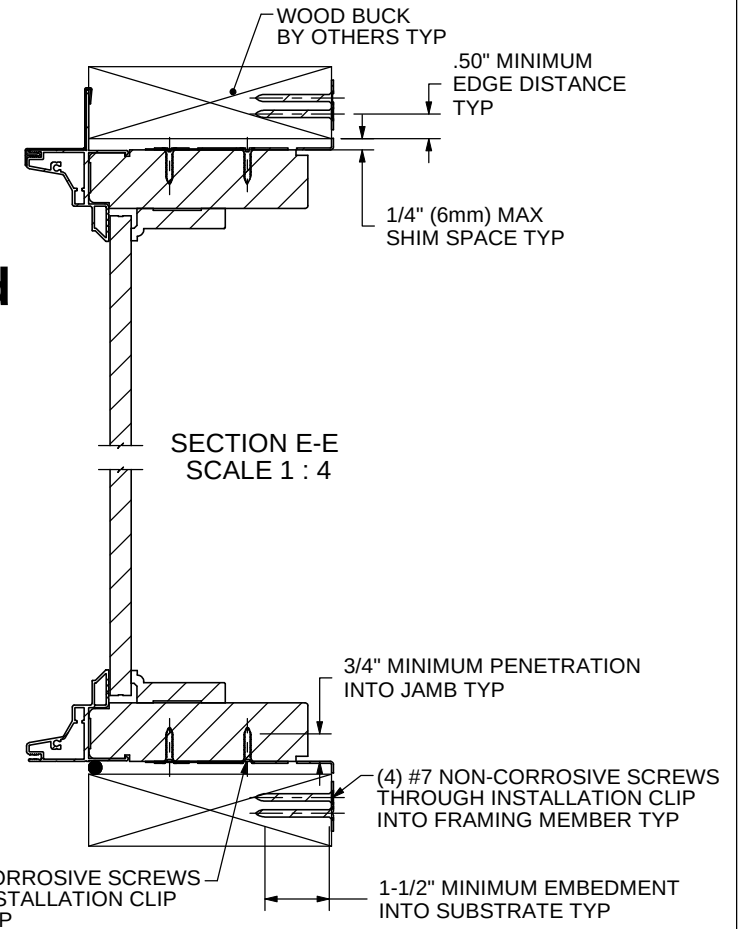


Weather Shield Windows & Doors

1309, 1310, 8306
Direct Set Mullion
INSTALLATION



SECTION D-D
SCALE 1 : 4



SECTION E-E
SCALE 1 : 4

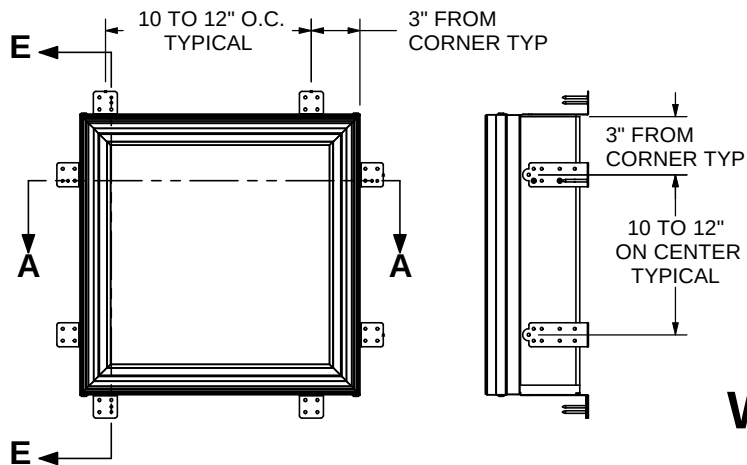
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NOTE(S):

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AREA:		CUT STOCK SIZE:			
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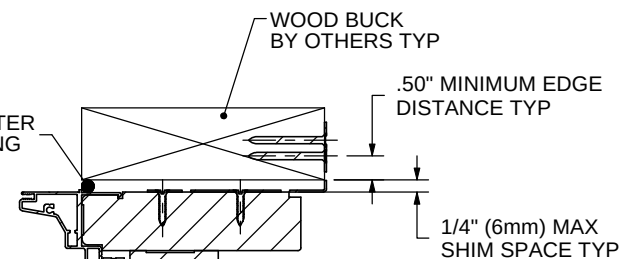
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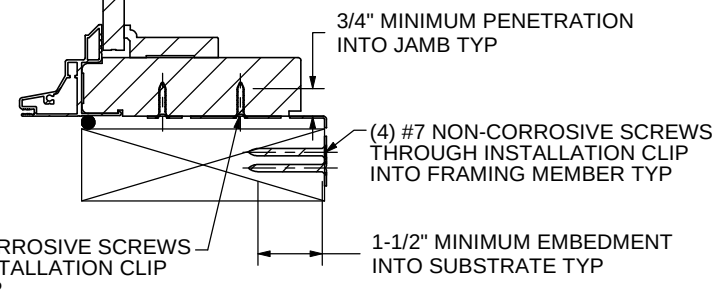
Weather Shield Windows & Doors

1309, 1310, 8306 Direct Set
Installation Clip
INSTALLATION METHOD

USE SILICONE SEALANT
AROUND ENTIRE PERIMETER
BETWEEN JAMB & FRAMING
MEMBER BY OTHERS TYP

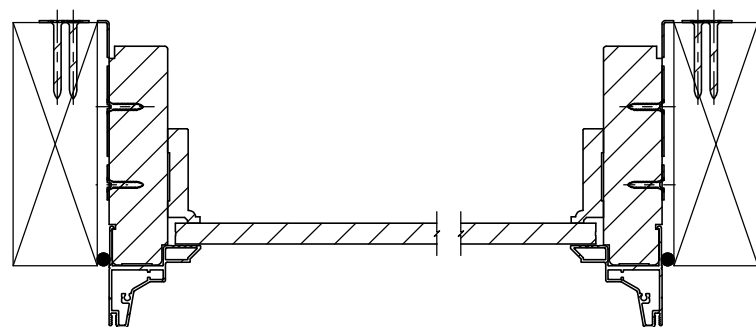


SECTION E-E
SCALE 1 : 4



(4) #7 NON-CORROSIVE SCREWS
THROUGH INSTALLATION CLIP
INTO UNIT TYP

1-1/2\"/>



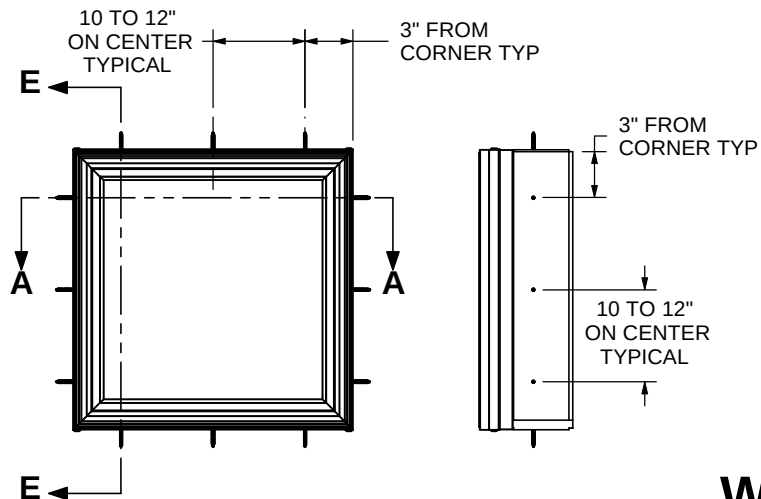
SECTION A-A
SCALE 1 : 4

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NOTE(S):

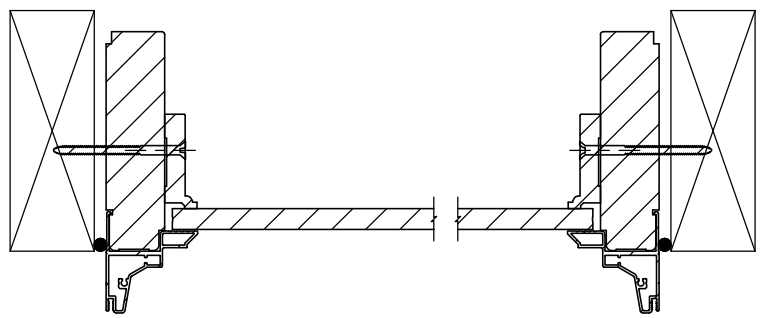
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DIE #, X-REF #, COMPARATOR #:		DIV./ORDER #:			
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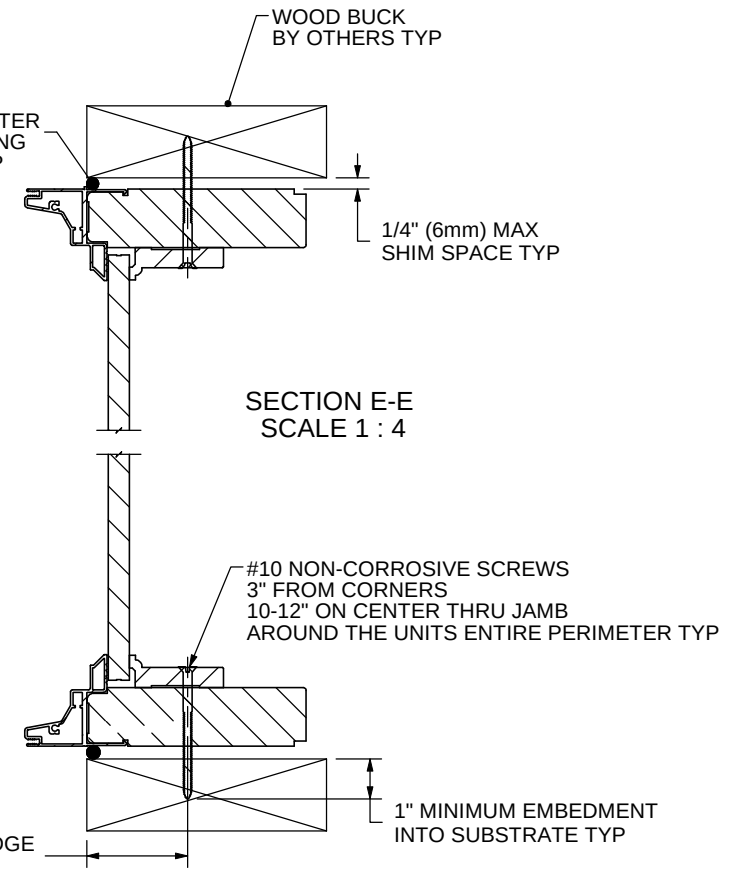
Weather Shield Windows & Doors

1309, 1310, 8306 Direct Set
THROUGH JAMB
INSTALLATION METHOD



SECTION A-A
SCALE 1 : 4

USE SILICONE SEALANT
AROUND ENTIRE PERIMETER
BETWEEN JAMB & FRAMING
MEMBER BY OTHERS TYP



THIS SCHEDULE ADDRESSES ONLY THE FASTENERS REQUIRED TO ANCHOR THE WINDOW(S) TO ACHIEVE THE RATED DESIGN PRESSURE. THOROUGHLY READ AND FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS RECEIVED WITH UNIT. THIS GUIDE DOES NOT ADDRESS THE SEALING CONSIDERATIONS THAT MAY ARISE IN DIFFERENT WALL CONDITIONS.

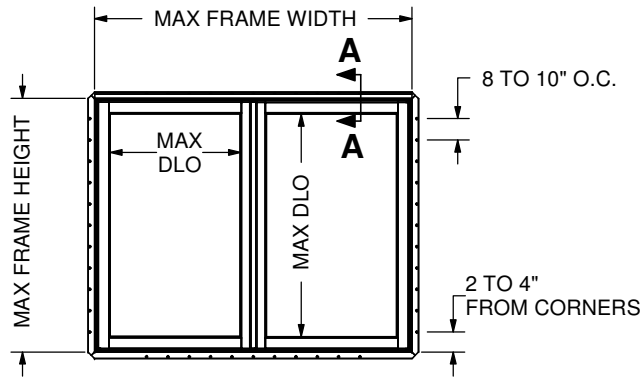
NOTE(S):
1. DIMENSIONED VIEWS ARE TYPICAL FOR ALL CROSS SECTION DETAILS.

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FINISH:		CUT STOCK SIZE:		REV.	
ECO OR W.S. #:		FILE PATH:			
TYP. WALL THICKNESS:		DO NOT SCALE DRAWING			
AREA:		DRAWN BY: JK/SB		DATE: 9-9-14	
WT./FT.:		DATE: 9-9-14			
FILE PATH:		DO NOT SCALE DRAWING		SCALE: 1:12 SHEET NAME: Sheet1 SHEET 1 OF 1	

REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.

Weather Shield Windows & Doors

1211, 1212 FRENCH CASEMENT
NAILING FIN INSTALLATION



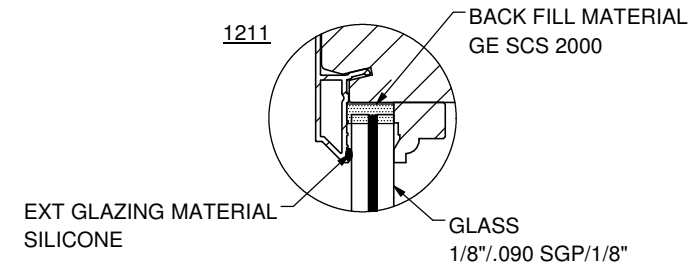
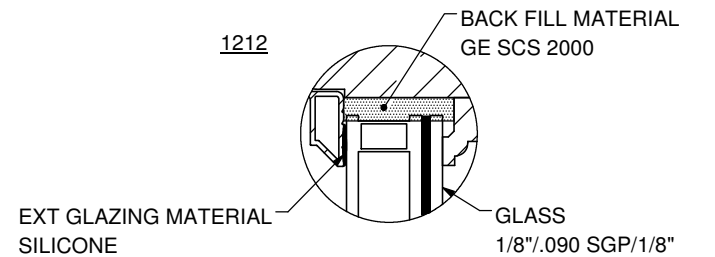
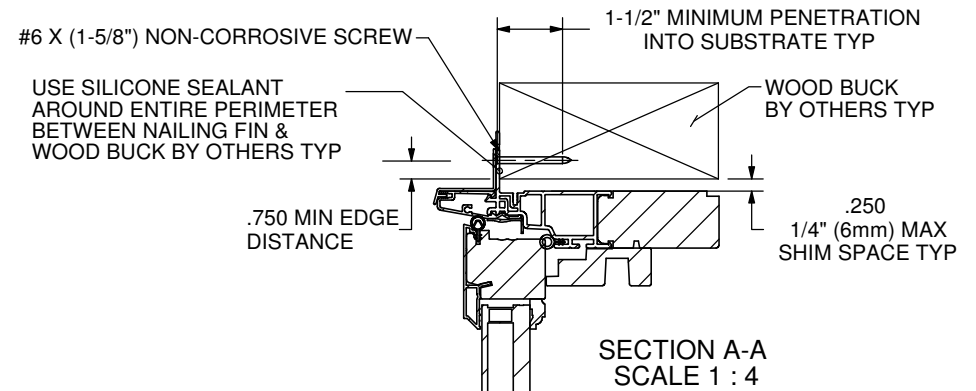
Product I.D.	Description	Frame Size		Daylight Opening		DP Rating (psf)	Frame Material
		Width	Height	Width	Height		
1212	French Casement	41.5	71.5	15.41	65.75	+55/-70	Vinyl/Wood

GENERAL NOTE(S):

1. THESE UNITS HAVE BEEN TESTED, ANALYZED, HALLMARK CERTIFIED AND FBC APPROVED.
2. GLASS MEETS THE REQUIREMENTS OF ASTM E1300.
3. SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER 2411.3.3.1 OF THE CURRENT FBC.
4. GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT ¼ SPAN FROM CORNERS AS PER 2411.3.3.1 OF THE CURRENT FBC.
5. LARGE AND SMALL MISSILE IMPACT RESISTANT. WINDOW AND DOOR UNITS REQUIRED TO MEET SMALL MISSILE IMPACT WIND-BORNE DEBRIS PROTECTION REQUIRE THE EXTERIOR LITE OF AN INSULATED UNIT TO BE TEMPERED PER FBC, SECTION 2411.3.3.7.

A	10/25/2016	ADDED ADDITIONAL PRODUCT ID'S		JG/JK	TYP. WALL THICKNESS:				
					WT/FT:	AREA:			
					MAT:	FINISH:			
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:	PROFILE #:			

HEAD, SIDES & SILL ANCHORAGE TYPICAL



TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

Weather Shield Windows & Doors

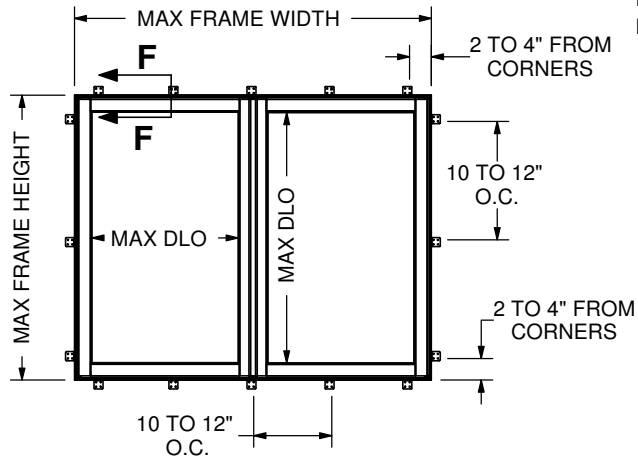
PRODUCTS: 1212	DRAWN BY: JLK/CJA	DATE: 03/31/2020	TITLE: INSTALLATION INSTRUCTIONS
		DWG NO.: 45-24910	REV
		SCALE: 1:36	SHEET NAME: Sheet1
			SHEET 1 OF 3

DO NOT SCALE DRAWING
24 of 42

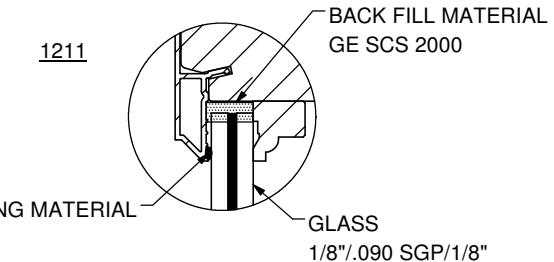
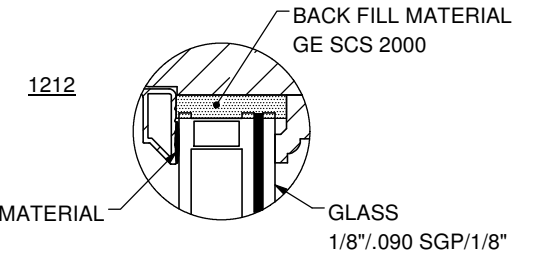
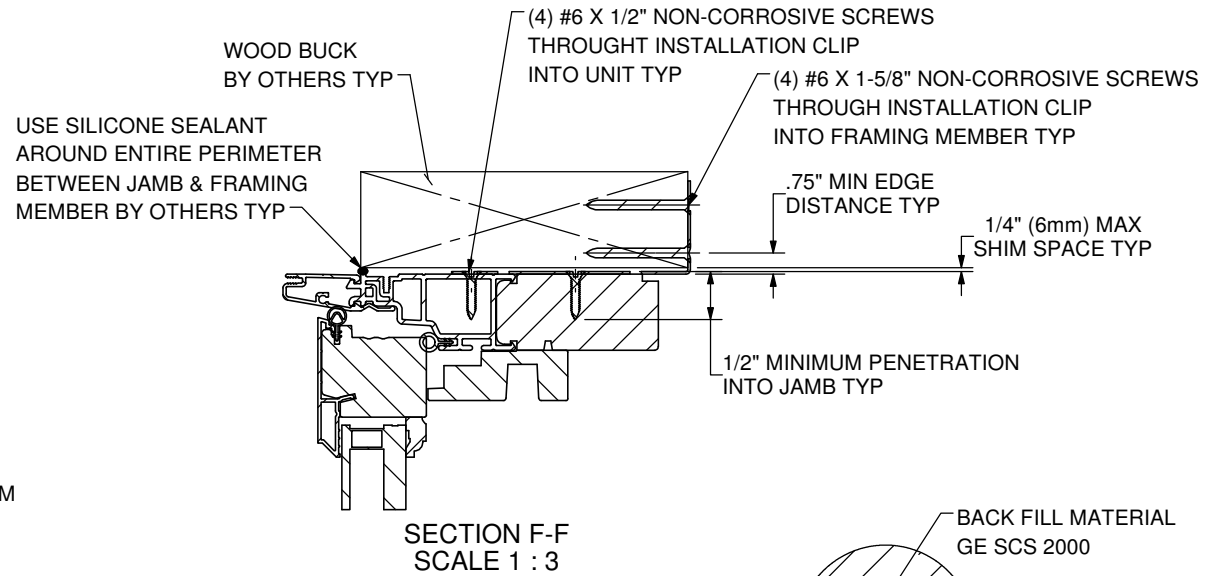
Weather Shield

Windows & Doors

1211, 1212 FRENCH CASEMENT
INSTALLATION CLIP METHOD



HEAD, SIDES & SILL ANCHORAGE TYPICAL



Product I.D.	Description	Frame Size		Daylight Opening		DP Rating (psf)	Frame Material
		Width	Height	Width	Height		
1212	French Casement	41.5	71.5	15.41	65.75	+55/-70	Vinyl/Wood

GENERAL NOTE(S):

1. THESE UNITS HAVE BEEN TESTED, ANALYZED, HALLMARK CERTIFIED AND FBC APPROVED.
2. GLASS MEETS THE REQUIREMENTS OF ASTM E1300.
3. SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER 2411.3.3.1 OF THE CURRENT FBC.
4. GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT ¼ SPAN FROM CORNERS AS PER 2411.3.3.1 OF THE CURRENT FBC.
5. LARGE AND SMALL MISSILE IMPACT RESISTANT. WINDOW AND DOOR UNITS REQUIRED TO MEET SMALL MISSILE IMPACT WIND-BORNE DEBRIS PROTECTION REQUIRE THE EXTERIOR LITE OF AN INSULATED UNIT TO BE TEMPERED PER FBC, SECTION 2411.3.3.7.

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

WEATHER SHIELD.
WINDOWS & DOORS

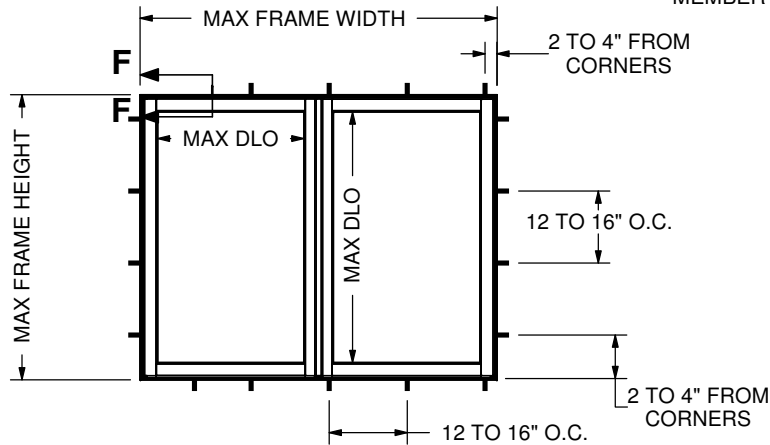
PRODUCTS: 1212		
DRAWN BY: JLK/CJA	DATE: 03/31/2020	TITLE: INSTALLATION INSTRUCTIONS
DWG NO.: 45-24910		REV
SCALE: 1:32	SHEET NAME: Sheet2	SHEET 2 OF 3

A	10/25/2016	ADDED ADDITIONAL PRODUCT ID'S		JG/JK	TYP. WALL THICKNESS:	
					WT/FT:	AREA:
					MAT:	FINISH:
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:	PROFILE #:

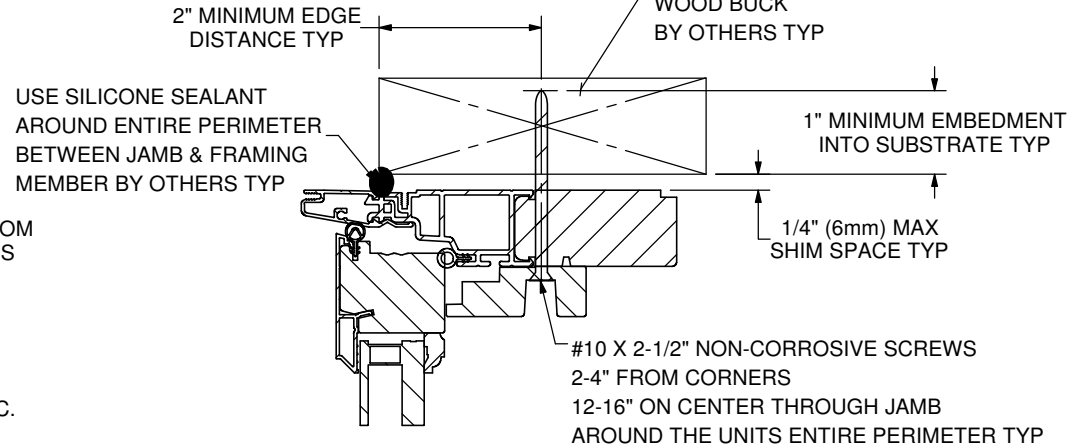
Weather Shield

Windows & Doors

1211,1212 FRENCH CASEMENT
THROUGH JAMB METHOD



HEAD, SIDES & SILL ANCHORAGE TYPICAL



SECTION F-F
SCALE 1 : 3

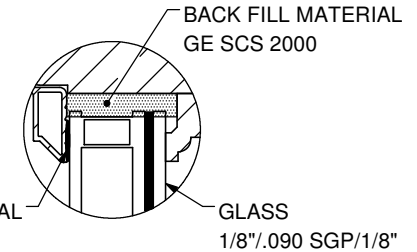
Product I.D.	Description	Frame Size		Daylight Opening		DP Rating (psf)	Frame Material
		Width	Height	Width	Height		
1212	French Casement	41.5	71.5	15.41	65.75	+55/-70	Vinyl/Wood

GENERAL NOTE(S):

- THESE UNITS HAVE BEEN TESTED, ANALYZED, HALLMARK CERTIFIED AND FBC APPROVED.
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300.
- SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER 2411.3.3.1 OF THE CURRENT FBC.
- GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT 1/4 SPAN FROM CORNERS AS PER 2411.3.3.1 OF THE CURRENT FBC.
- LARGE AND SMALL MISSILE IMPACT RESISTANT. WINDOW AND DOOR UNITS REQUIRED TO MEET SMALL MISSILE IMPACT WIND-BORNE DEBRIS PROTECTION REQUIRE THE EXTERIOR LITE OF AN INSULATED UNIT TO BE TEMPERED PER FBC, SECTION 2411.3.3.7.

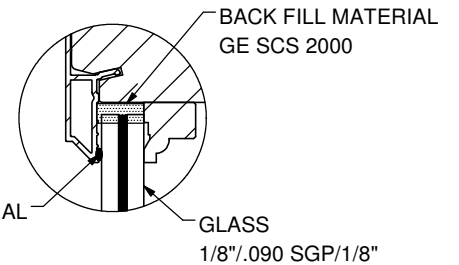
1212

EXT GLAZING MATERIAL
SILICONE



1211

EXT GLAZING MATERIAL
SILICONE



TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

PRODUCTS:
1212

DRAWN BY:
JLK/CJA

DATE:
03/31/2020

TITLE:
INSTALLATION INSTRUCTIONS

DWG NO.:
45-24910

SCALE: 1:32 SHEET NAME: Sheet3 SHEET 3 OF 3

WEATHER SHIELD.
WINDOWS & DOORS

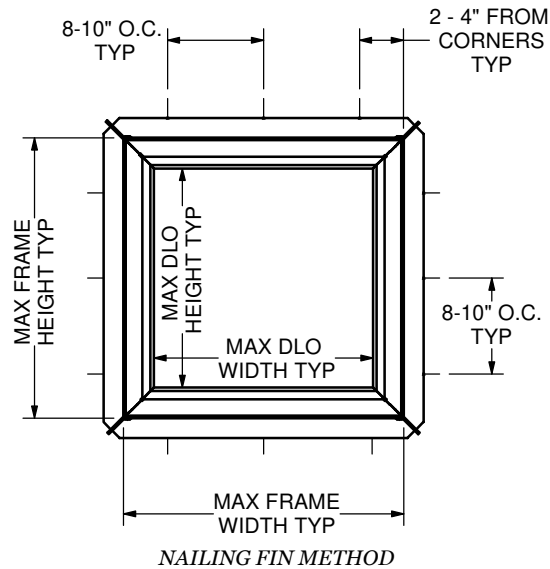
A	10/25/2016	ADDED ADDITIONAL PRODUCT ID'S	JG/JK	TYP. WALL THICKNESS:	
				WT/FT:	AREA:
				MAT:	FINISH:
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:

WEATHER SHIELD.

WINDOWS & DOORS

1214 PUSH OUT CASEMENT

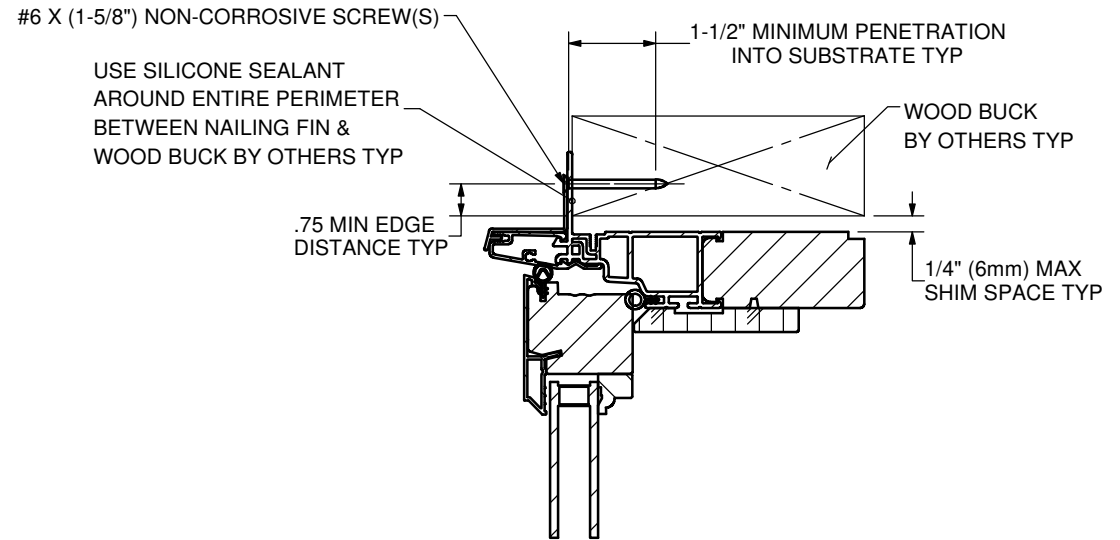
INSTALLATION



Product I.D.	Description	Frame Size		DLO Size		DP Rating (psf)	Frame Material	Installation
		Width	Height	Width	Height			Nail Fin
1214	Push-out Casement	36.63	77.5	30.38	71.25	+55/-70	Vinyl/Alum/Wood	X

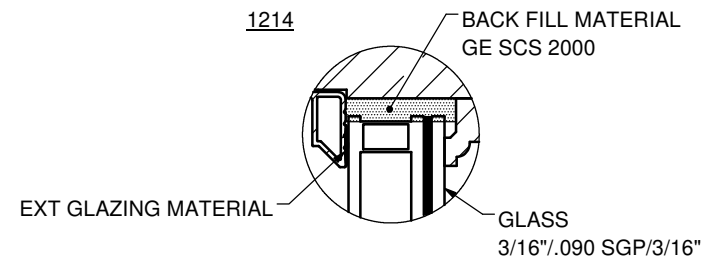
HEAD, SILL & SIDE ANCHORAGE TYPICAL

NAILING FIN METHOD



GENERAL NOTE(S):

- THESE UNITS HAVE BEEN TESTED, ANALYZED, HALLMARK CERTIFIED AND FBC APPROVED.
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - AAMA/WDMA/CSA 101/1.5.2/A440-11
 - TAS201
 - TAS202
 - TAS203
- GLASS MEETS THE REQUIREMENTS OF ASTM E1300.
- SETTING BLOCK SHOULD BE 70-90 DUROMETER AS PER 2411.3.3.1 OF THE CURRENT FBC.
- GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE SETTING BLOCKS AT 1/4 SPAN FROM CORNERS AS PER 2411.3.3.1 OF THE CURRENT FBC.
- LARGE AND SMALL MISSILE IMPACT RESISTANT. WINDOW AND DOOR UNITS REQUIRED TO MEET SMALL MISSILE IMPACT WIND-BORNE DEBRIS PROTECTION REQUIRE THE EXTERIOR LITE OF AN INSULATED UNIT TO BE TEMPERED PER FBC, SECTION 2411.3.3.7.



TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

WEATHER SHIELD.

WINDOWS & DOORS

PRODUCTS:
1214

DRAWN BY:
JLK/CJA

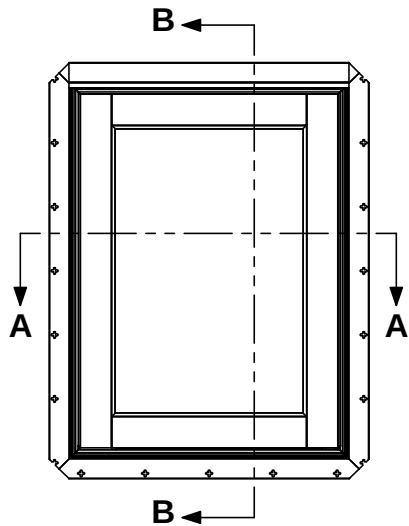
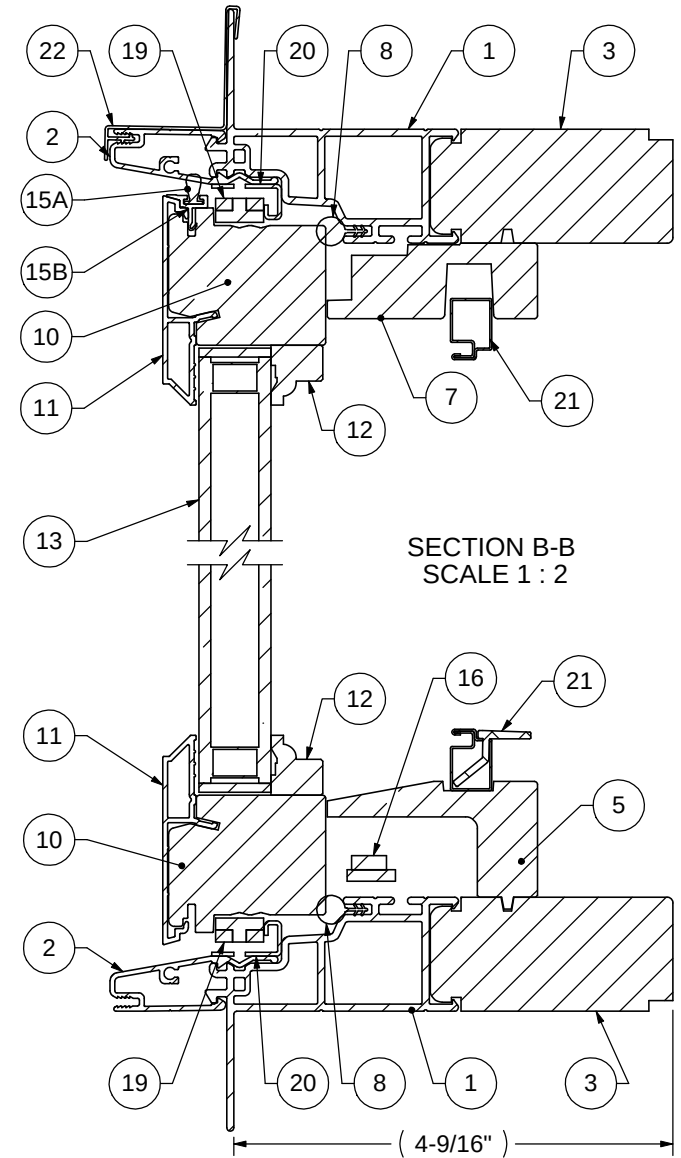
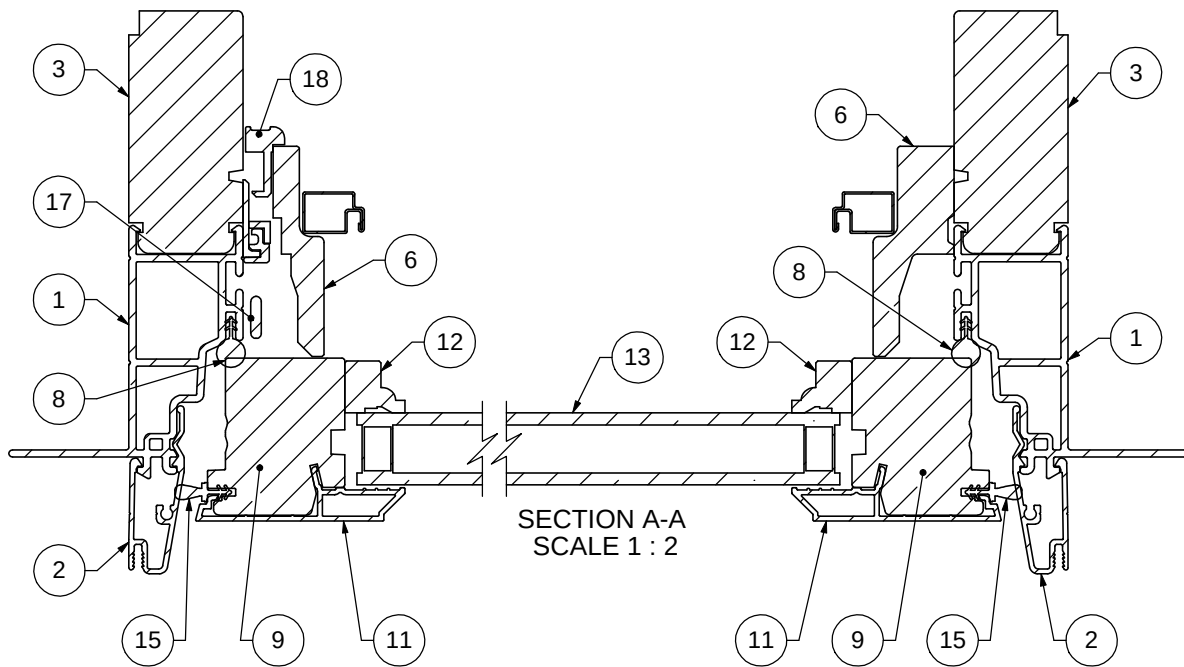
DATE:
9/10/2021

TITLE:
NAIL FIN INSTALLATION INSTRUCTIONS

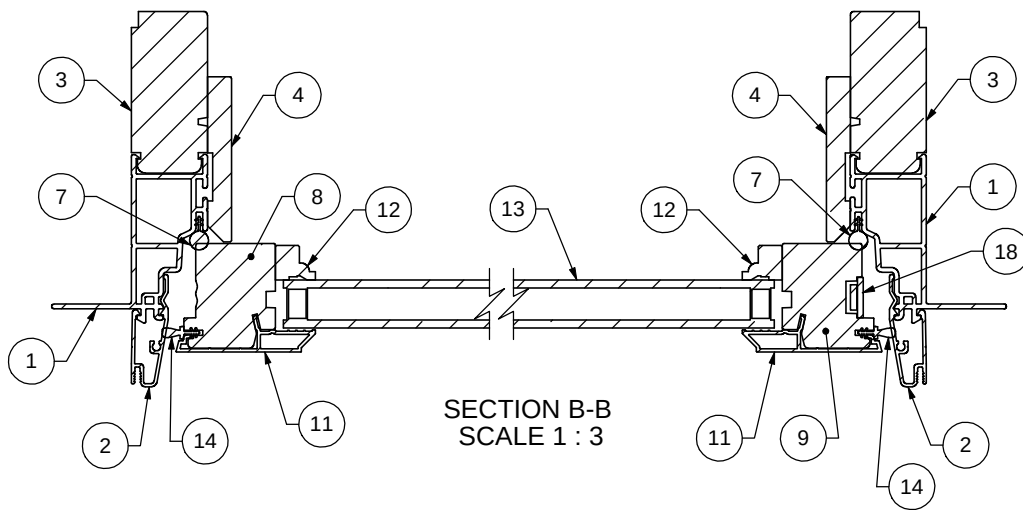
DWG NO.:
45-33149

SCALE: 1:12 SHEET NAME: Sheet1 SHEET 1 OF 1

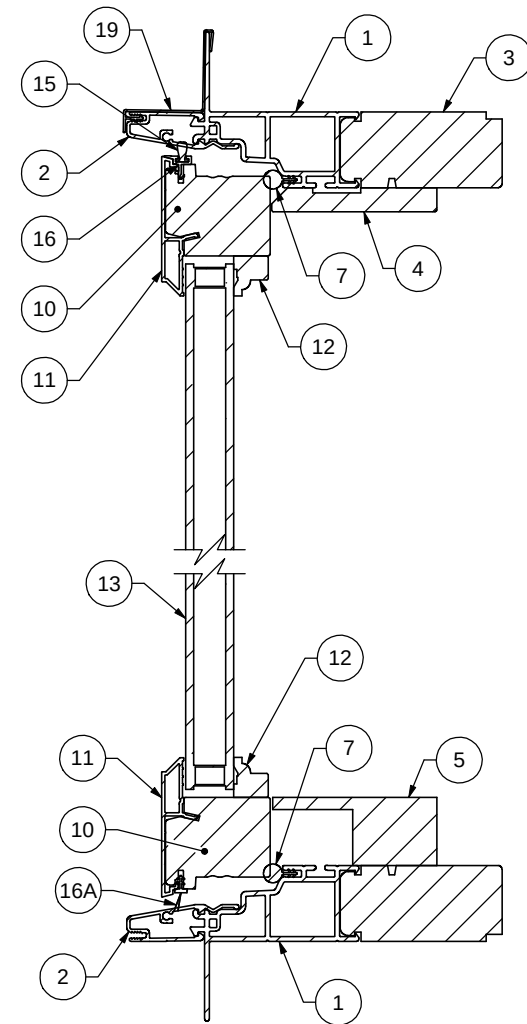
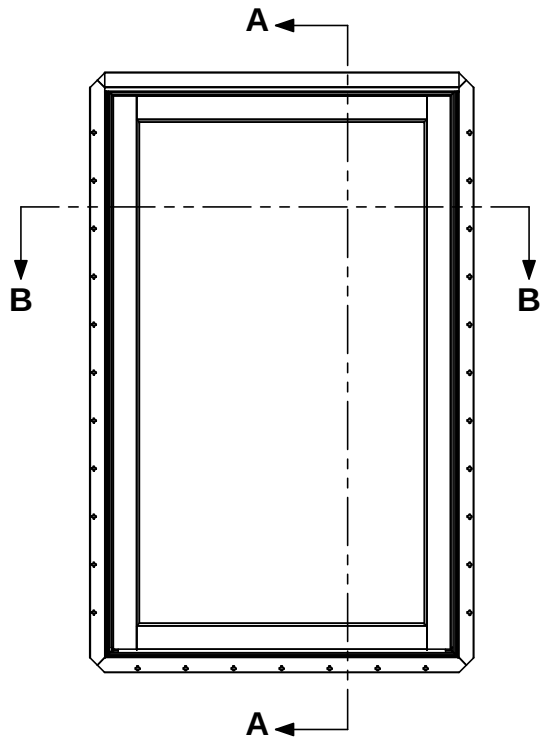
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #: TESTING & CERT	PROFILE #45-08713



.8	6-11-13	NEW PROFILE WAS 85-7265-01 NOW 85-7265-02 AL. NOSE	DEVELOPMENT	EB/JK	TYP. WALL THICKNESS:	CUT STOCK SIZE:	8211		
A	8-21-13	UPDATED SOLID WORKS VIEWS, NO OTHER CHANGES	30052	EB	AREA:	ECO OR W.S. #:	29904		
B	10-9-13	UPDATED VIEWS DESIGN CHANGE TO JAMB	30052	EB/JK	WT./FT.:		TITLE:		CA, CROSS-SECTION W/ BOM
					FILE PATH:		DWG. NO.		REV.
							85-7254-38		B
REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING	DRAWN BY:	DATE:	SCALE: 1:12 SHEET NAME: Sheet1	
						EB/JK	11-9-12	SHEET 1	OF 3

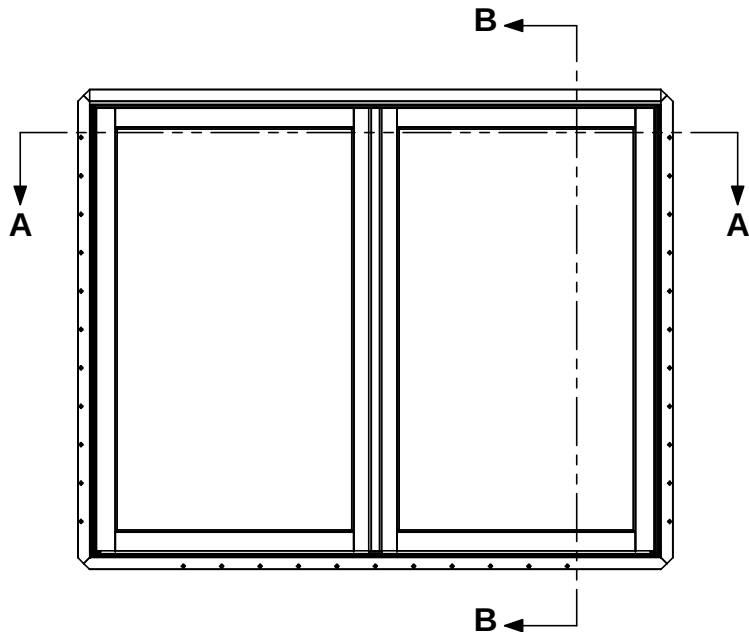
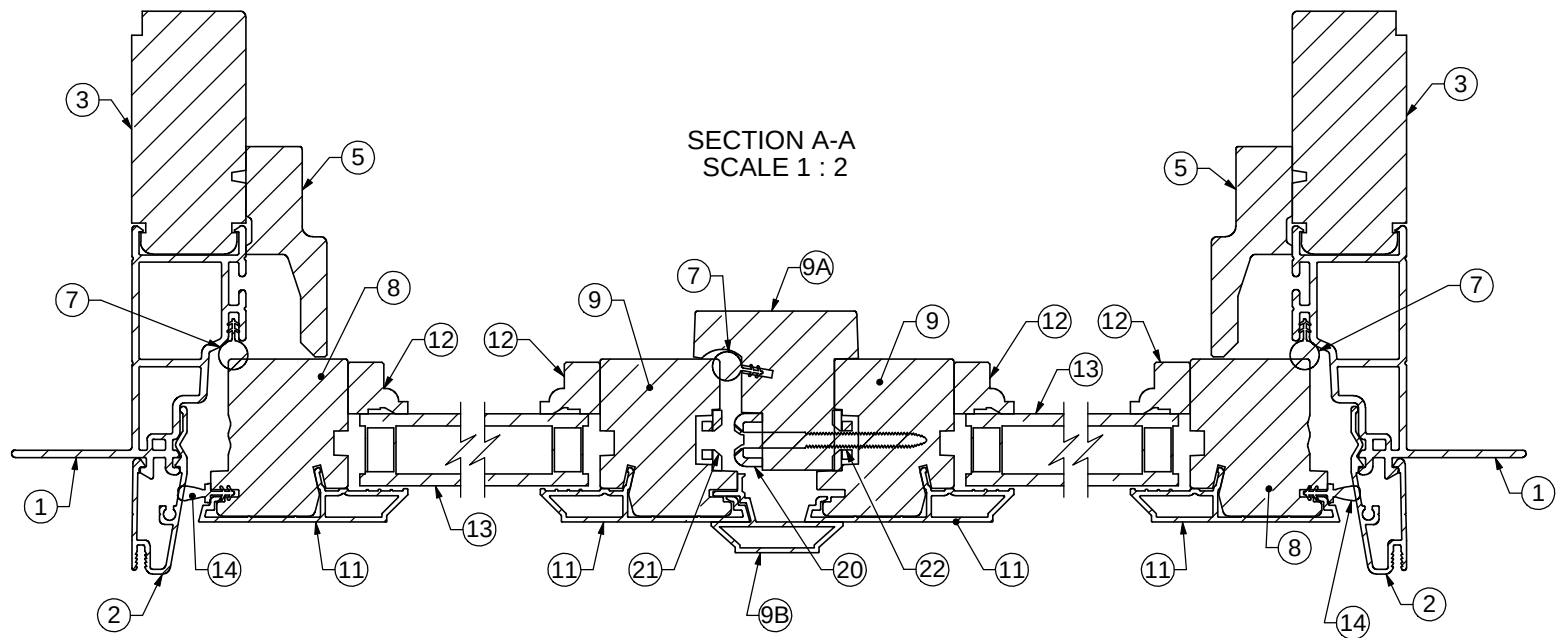


SECTION B-B
SCALE 1 : 3

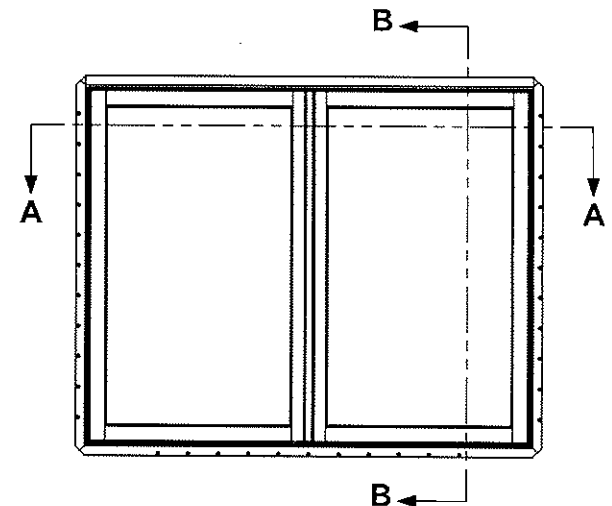
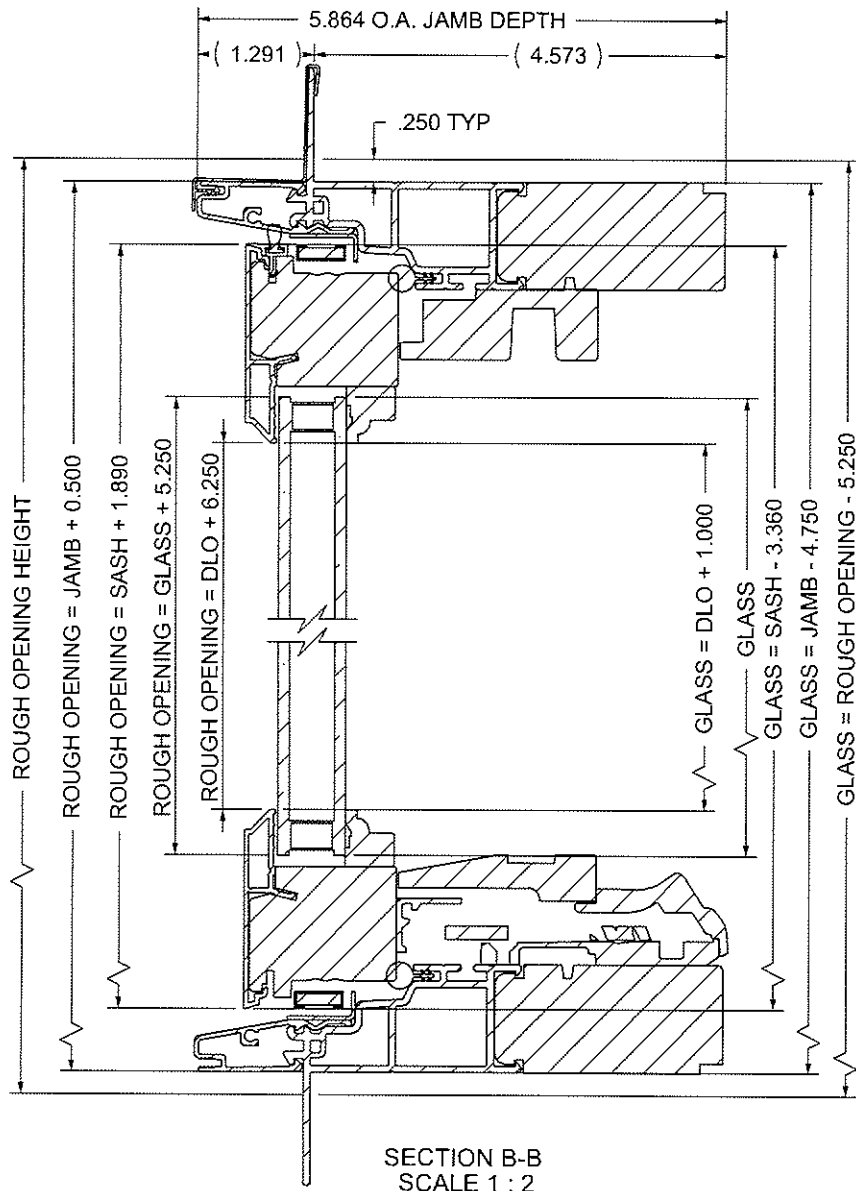


SECTION A-A
SCALE 1 : 3

.1	2-25-14	REMOVE KEEPER 85-9117-01 REPL BY 85-8923-01 @ HEAD & SILL	DEVELOPMENT	EB/JK	TYP. WALL THICKNESS:		CUT STOCK SIZE:		8213		
.2	6-9-14	NEW INTERIOR SILL STOP/COVER	DEVELOPMENT	EB/JK	AREA:		ECO OR W.S. #: 30046		TITLE: PUSH OUT CA, CROSS-SECT W/ BOM		
.3	2-10-15	ADDED WEATHERSTRIP DRW NO. 85-11948-01	DEVELOPMENT	RF/JK	WT./FT.:				DWG. NO.		REV.
					FILE PATH:				85-8712-04		.3
REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING		DRAWN BY: EB/JK		DATE: 10-12-13		
									SCALE: 1:1 SHEET NAME: Sheet1 SHEET 1 OF 2		



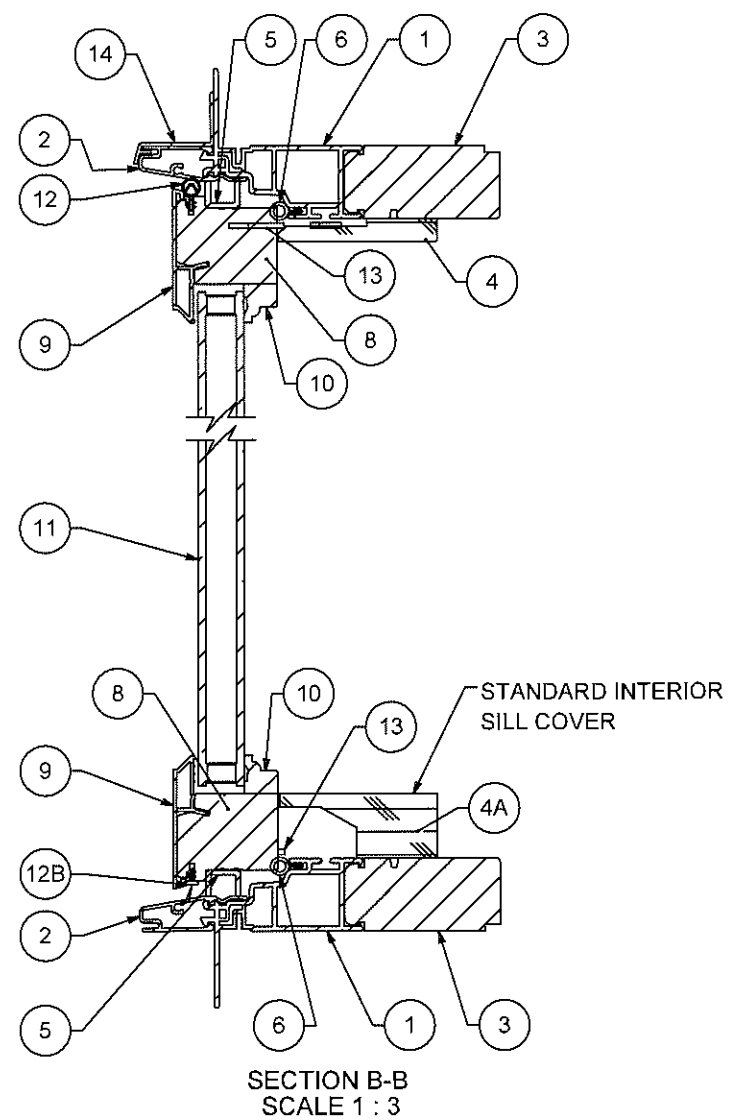
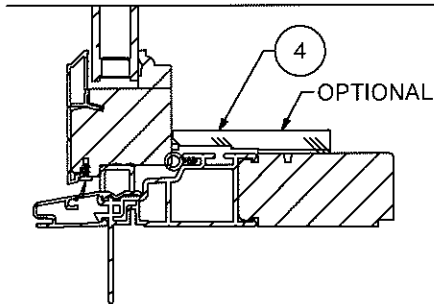
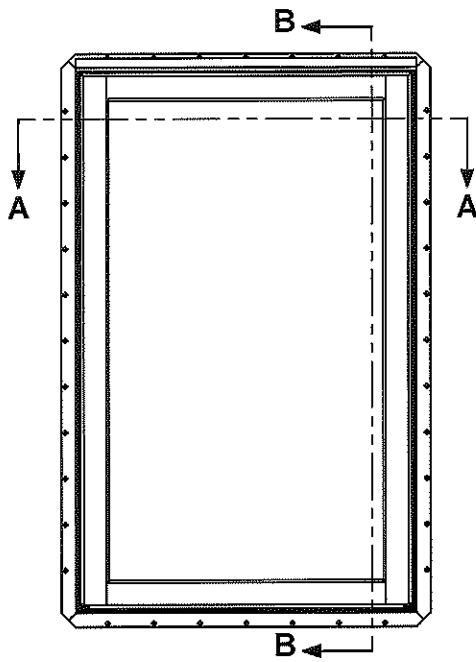
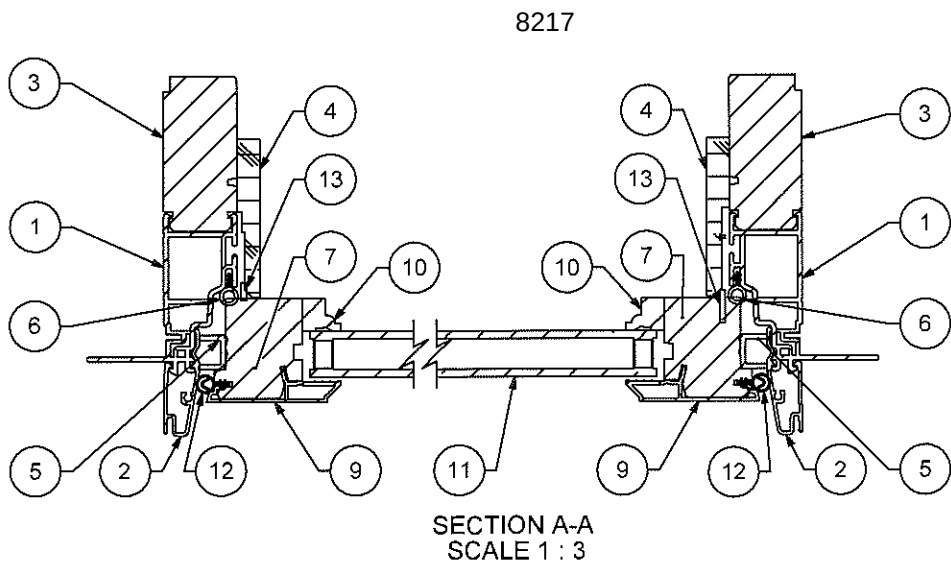
.2	4-15-14	REMOVED HP SNUBBER PER TESTING	DEVELOPMENT	EB/JK	TYP. WALL THICKNESS:		CUT STOCK SIZE:		8214	
.3	6-27-14	UPDATED OPERATOR HANDLE DRW NUMBER/PT NOT SHOWN	DEVELOPMENT	EB/JK	AREA:		ECO OR W.S. #: 30046		TITLE:	
.4	2-10-15	ADDED WEATHERSTRIP DRW NO. 85-11948-01	DEVLEOPMENT	RF/JK	WT./FT.:		FILE PATH:		DWG. NO.	
REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING		DRAWN BY: EB/JK		DATE: 7-11-13	
									85-8712-01	
									REV. .4	
									SCALE : 1:20 SHEET NAME: Sheet1	
									SHEET 1 OF 3	



SECTION B-B
SCALE 1 : 2

PROPERTY OF WEATHER SHIELD MFG., INC. DRAWING IS NOT TO BE REPRINTED OR SUBMITTED FOR USE OUTSIDE OF WEATHER SHIELD MFG., INC. ALL RIGHTS RESERVED. DIE #.X.REF #.COMPARATOR #:		MATERIAL:	
		DIV./ORDER #:	
		DATE ORDERED:	
		Q.C. COMPARATOR CHECK: ☐	
TYP. WALL THICKNESS:		FINISH:	
AREA:		CUT STOCK SIZE:	
WT./FT.:		ECO OR W.S. #: 30046	
FILE PATH:		PRODUCTS:	
DO NOT SCALE DRAWING		DRAWN BY: EB/JK	
DATE: 7-11-13		TITLE: FRENCH CA, FORMULAS	
DWG. NO. 85-8712-02		REV.	
SCALE: 1:20		SHEET NAME: Sheet2	
SHEET 2		OF 2	

Weather Shield
Windows & Doors



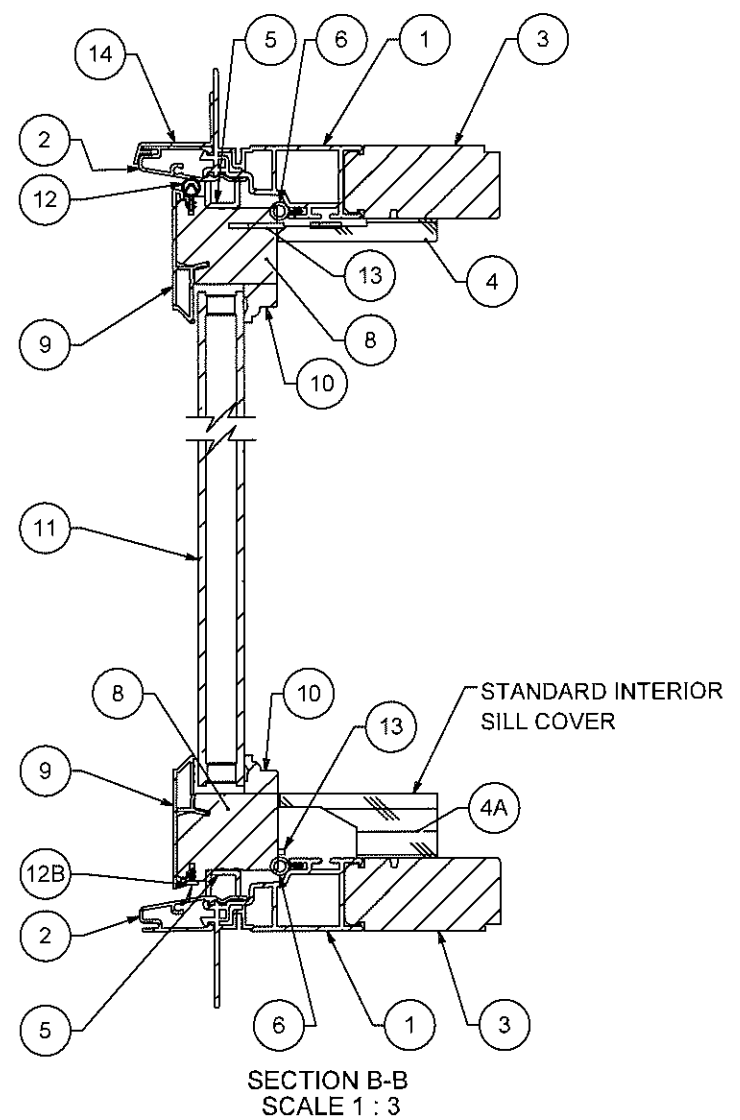
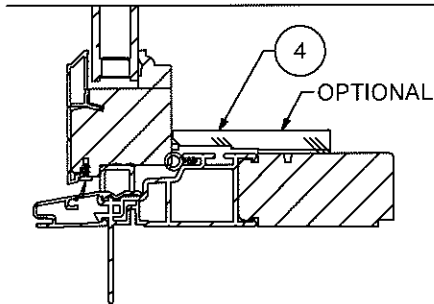
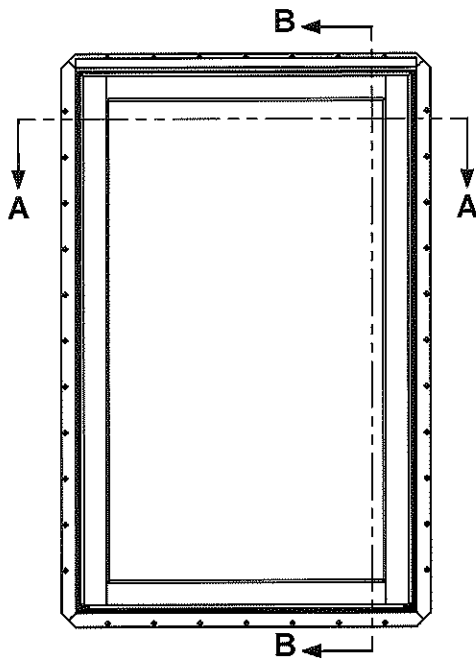
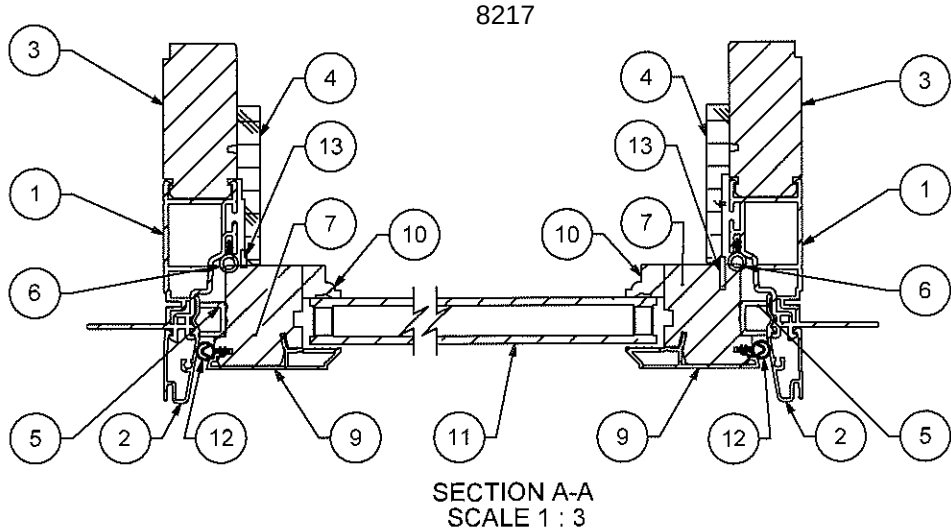
TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

WEATHER SHIELD.
WINDOWS & DOORS

PRODUCTS:
8217

2	12/10/2018	UPDATED SILL INTERIOR COVER	DEV	JK	TYP. WALL THICKNESS:	DRAWN BY:	DATE:	TITLE:	REV
3	12/26/2018	UPDATED INTERIOR SILL COVER	DEV	JK	WT/FT:	JLK/CJA	12/10/2018	CROSS-SECTION, PUSH OUT STATIONARY	
					MAT:	PROPERTY OF WEATHER SHIELD MFG., INC. DRAWING IS NOT TO BE REPRINTED OR SUBMITTED FOR USE OUTSIDE OF WEATHER SHIELD MFG., INC. ALL RIGHTS RESERVED.			
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:	FINISH:	DWG NO.:	SCALE:	SHEET NAME:
					13747		45-20255	1:12	Sheet1
						PROFILE #85-0921			SHEET 1 OF 2

DO NOT SCALE DRAWING



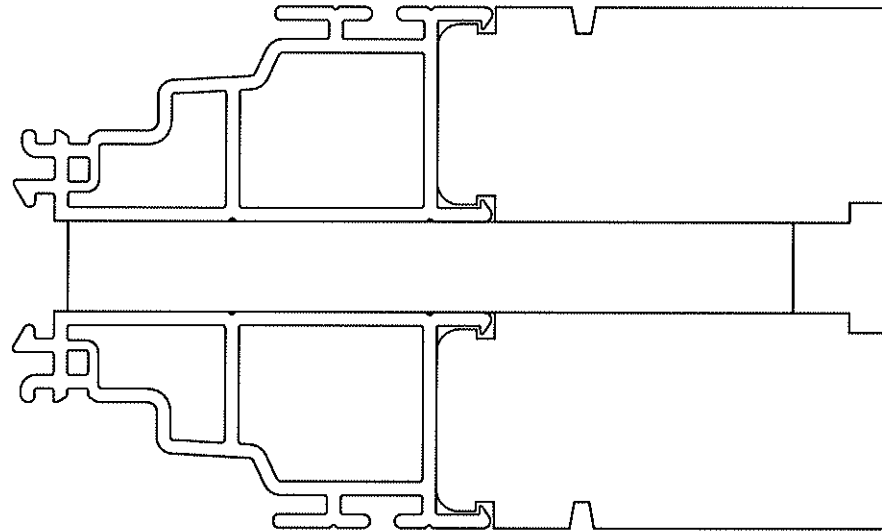
TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

WEATHER SHIELD.
WINDOWS & DOORS

PRODUCTS:
8217

.2 12/10/2018 UPDATED SILL INTERIOR COVER			DEV	JK	TYP. WALL THICKNESS:		DRAWN BY:	DATE:	TITLE:	REV
.3 12/26/2018 UPDATED INTERIOR SILL COVER			DEV	JK	WT/FT:	AREA:	JLK/CJA	12/10/2018	CROSS-SECT, PUSH OUT STATIONARY	
					MAT:	FINISH:	PROPERTY OF WEATHER SHIELD MFG., INC. DRAWING IS NOT TO BE REPRINTED OR SUBMITTED FOR USE OUTSIDE OF WEATHER SHIELD MFG., INC. ALL RIGHTS RESERVED.			
							DWG NO.: 45-20255			
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:	13747	PROFILE #85-0921	SCALE: 1:12	SHEET NAME: Sheet1	SHEET 1 OF 2

DO NOT SCALE DRAWING



PARTS TO BE ANALYZED

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.x ± .1"	xx ± 1°
.xx ± .03"	xx.x ± .5° (1/2")
.xxx ± .015"	xx.xx ± .25° (1/4")

PRODUCTS:

Weather Shield
Windows & Doors

				TYP. WALL THICKNESS:		DRAWN BY: EMB		DATE: 07/27/2015		TITLE: CASEMENT MULLED TO CASEMENT		REV	
				W1/I1:		AREA:							
				MAT:		FINISH:		PROPERTY OF WEATHER SHIELD MFG., INC. DRAWING IS NOT TO BE REPRINTED OR SUBMITTED FOR USE OUTSIDE OF WEATHER SHIELD MFG., INC. ALL RIGHTS RESERVED.		DWG. NO.: 45-00677			
REV	DATE	DESCRIPTION				PCR NO.	ENG	PDR #:	PROFILE #:	SCALE: 1:1 SHEET NAME: Sheet1			SHEET 1 OF 2

45-00677

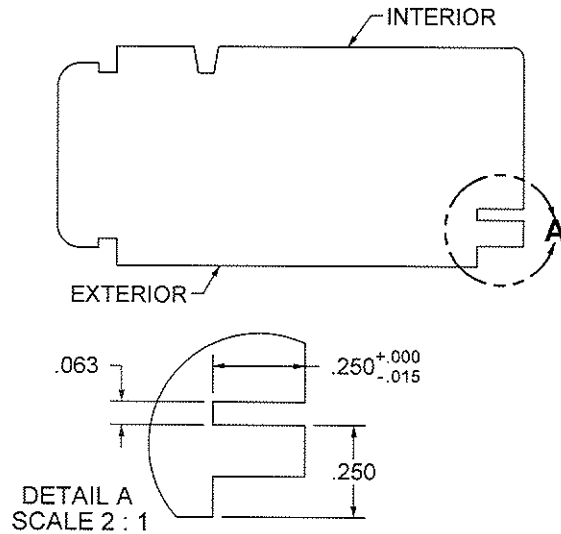
SCALE: 1:1 SHEET NAME: Sheet1 SHEET 1 OF 2

DO NOT SCALE DRAWING

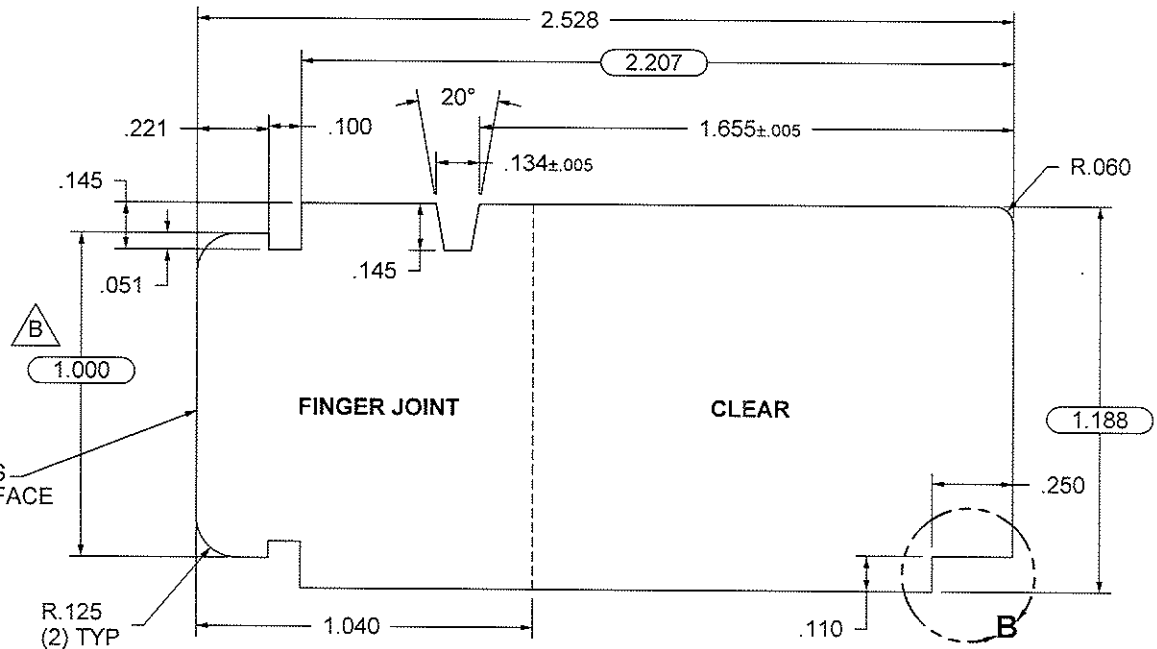
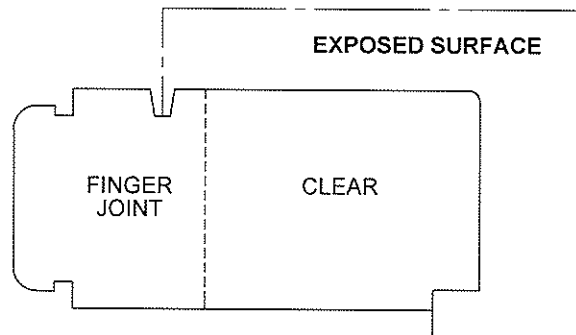
NOTE(S):

1. STANDARD WOOD MACHINING TOLERANCES (DRAWING 000001) APPLY UNLESS OTHERWISE NOTED.
2. NO KNOTS - FINGER JOINT & BLUE STAIN ACCEPTABLE ON UNEXPOSED PORTION OF PROFILE.
3. DRYWALL KERF / SAW KERF DETAIL "A" IS USED ON ALL JAMB DEPTHS.
4. ACCESSORY GROOVE DETAIL "B" IS TYPICAL ALL JAMB DEPTHS.

OPTIONAL W/ ACCESSORY GROOVE
 DRYWALL KERF / SAW KERF
 DETAIL "A" IS USED FOR ALL JAMB DEPTHS



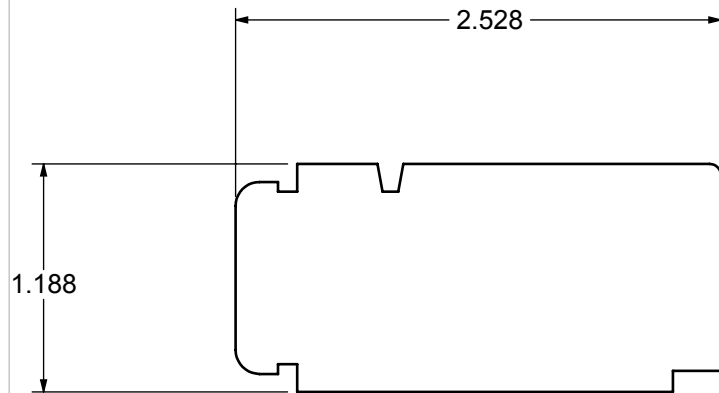
OCCASIONAL SKIP/MISS
 ACCEPTABLE ON THIS FACE



PROPERTY OF WEATHER SHIELD MFG., INC. DRAWING IS NOT TO BE REPRINTED OR SUBMITTED FOR USE OUTSIDE OF WEATHER SHIELD MFG., INC. ALL RIGHTS RESERVED.		MATERIAL: WOOD
DIE #/X-REF #/COMPARATOR #:		DIV./ORDER #:
85-7886		DATE ORDERED:
TYP. WALL THICKNESS:		Q.C. COMPARATOR CHECK:
AREA:		FINISH:
WT./FT.:		CUT STOCK SIZE:
FILE PATH:		ECO OR W.S. #: 29904

Weather Shield
 Windows & Doors

B	9-16-13	PROFILE CHANGED & PAGE 2 ADDED	30052	EB/JK	DO NOT SCALE DRAWING	DRAWN BY: EB, JK	DATE: 10-29-12	PRODUCTS: 7205, 7305, 8205, 8211	REV. C
C	1-10-14	ADDED NOTE FOR DETAIL "A" & "B"	30046	EB/JK				TITLE: JAMB, 4-9/16" WOOD	
REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING	DRAWN BY:	DATE:	DWG. NO. 85-7886-01	REV. C
								SCALE: 1:1 SHEET NAME: Sheet1	SHEET 1 OF 2



Area = 2.882 inches²

Perimeter = 7.746

Centroid X = 0.000

Y = 0.000

Bounding Box X: -1.285 X: 1.243

Y: -0.596 Y: 0.592

Moments of inertia of the area, at the centroid: (inches ⁴)

X = 0.020

Y = 1.464

Radii of gyration: X: 0.0833

Y: 0.712

Angle between principal axes and part axes = 1.000 degrees

Principal moments of inertia of the area, at the centroid: (inches ⁴)

I_x = 0.318

I_y = 1.464

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

PRODUCTS:
8211

DRAWN BY:
EMB

DATE:
07/22/2015

TITLE:
JAMB, 4-9/16" WOOD

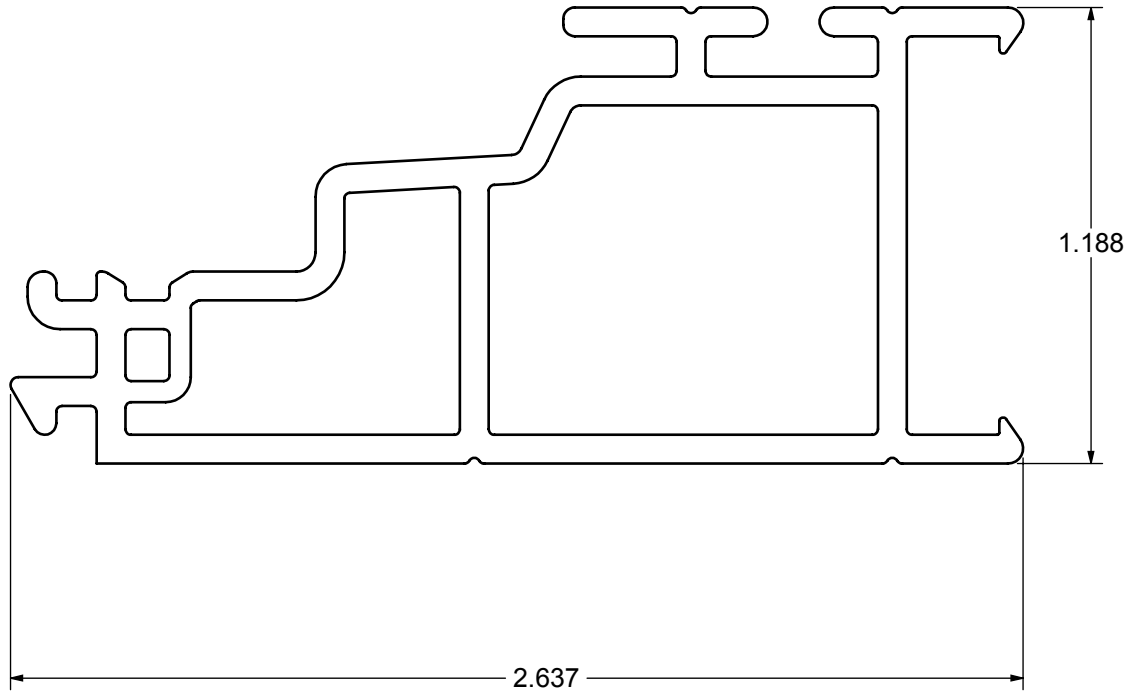
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DWG NO.:
45-00662

SCALE: 1:1 SHEET NAME: Sheet1 SHEET 1 OF 1

Weather Shield
Windows & Doors

					TYP. WALL THICKNESS:
					WT/FT:
					AREA:
					MAT: Wood
					FINISH:
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:
					PROFILE # 85-7886-01



Area = 0.655

Perimeter = 10.187

Centroid
X = 0.000
Y = 0.000

Bounding Box
X: -1.384 X: 1.188
Y: -0.497 Y: 0.691

Moments of inertia of the area, at the centroid
X = .073
Y = .375

Radii of gyration:
X: 0.334
Y: 0.757

Angle between principal axes and part axes = 14.418 degrees

Principal moments of inertia of the area, at the centroid
Mx: 0.090
My: 0.394

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

PRODUCTS:
8211

DRAWN BY:
EMB

DATE:
07/22/2015

TITLE:
Mullion Frame

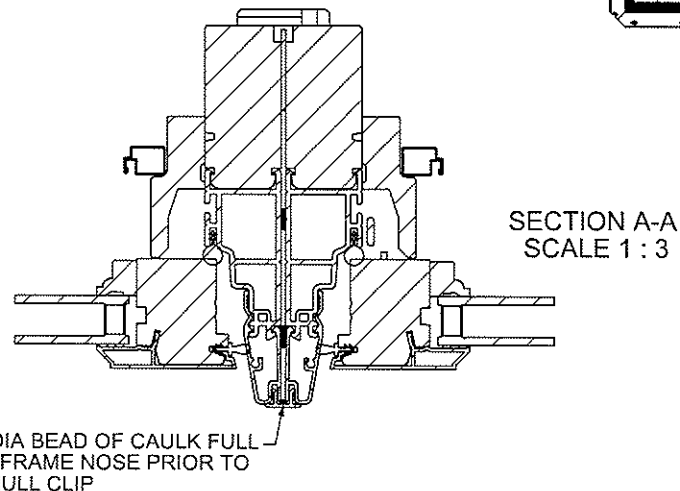
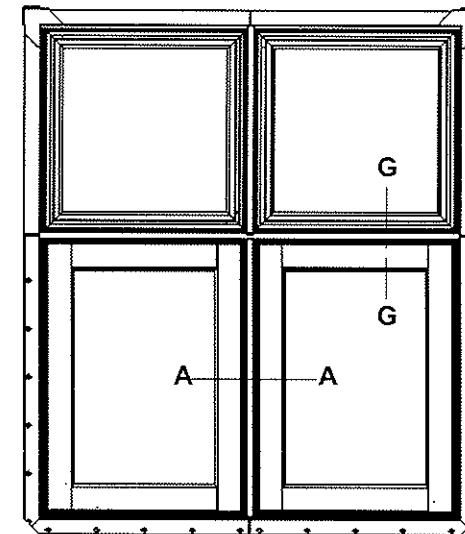
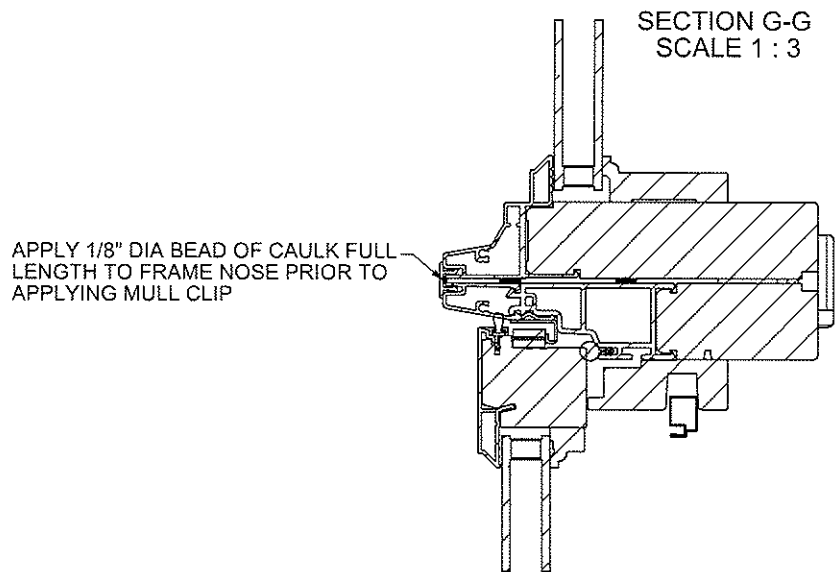
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DWG NO.:
45-00646

SCALE: 2:1 SHEET NAME: Sheet1 SHEET 1 OF 1

Weather Shield
Windows & Doors

					TYP. WALL THICKNESS:
					WT/FT:
					AREA:
					MAT: Vinyl
					FINISH:
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:
					PROFILE # 85-7354-01



- NOTE(S):
1. CASEMENT TWIN W/DIRECT SET TWIN STACK SHOWN; ALL OTHER CONFIGURATIONS TYPICAL.
 2. SNAP MULL CLIP INTO ACCESSORY GROOVE ON UNITS AFTER APPLYING CAULK.
 3. MULL CLIP WILL BE FLUSH WITH ACCESSORY GROOVES.

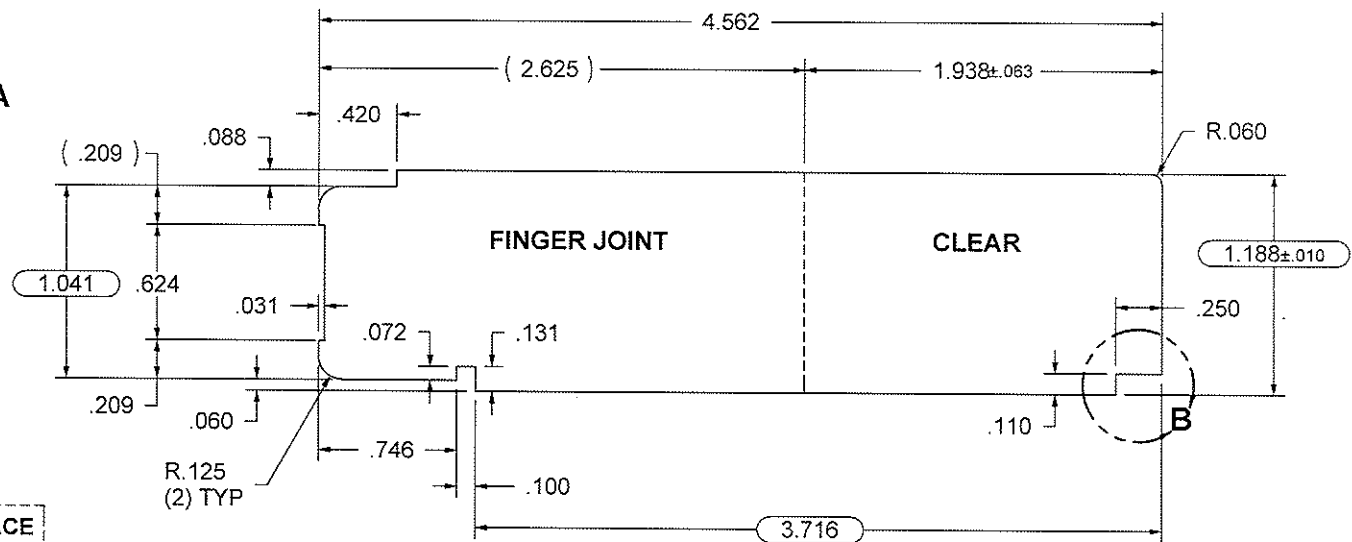
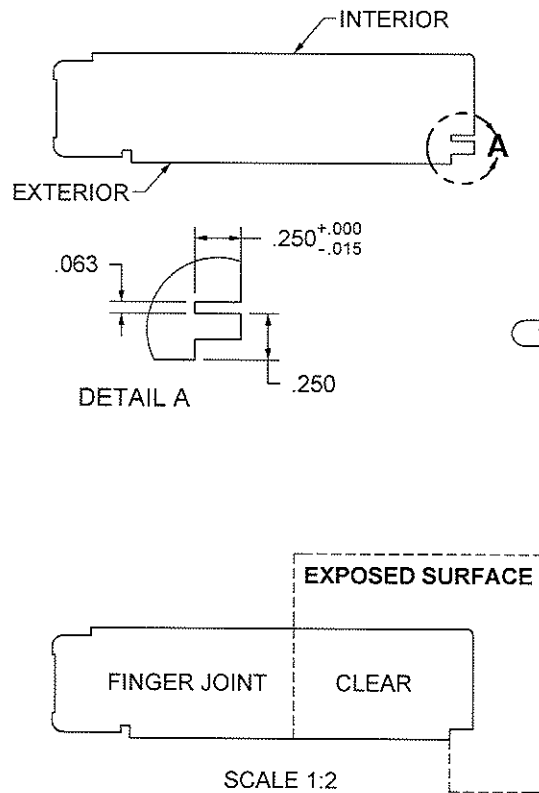
REFERENCE DRAWINGS:
 85-7444-06 CAULK DETAIL DRIP CAP
 85-7444-07 INTERIOR LATTICE APPLICATION

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		DIV./ORDER #:		
		DATE ORDERED:		
		G.C. COMPARATOR CHECK: ☐		
TYP. WALL THICKNESS:		FINISH:		PRODUCTS:
AREA:		CUT STOCK SIZE:		TWIN MULL-TWIN STACK
WT./FT.:		ECO OR W.S. #: 30046		TITLE:
FILE PATH:				MULL/STACK DETAIL, TIGHT (.075)
DO NOT SCALE DRAWING		DRAWN BY:	DATE:	DWG. NO.
		EB/JK	6-4-14	85-7444-36
				SCALE: 1:7
				SHEET NAME: Sheet5
				SHEET 5 OF 5

NOTE(S):

1. STANDARD WOOD MACHINING TOLERANCES (DRAWING 000001) APPLY UNLESS OTHERWISE NOTED.
2. NO KNOTS - FINGER JOINT & BLUE STAIN ACCEPTABLE ON UNEXPOSED PORTION OF PROFILE.
3. DRYWALL KERF / SAW KERF DETAIL "A" IS USED ON ALL JAMB DEPTHS.
4. ACCESSORY GROOVE DETAIL "B" IS TYPICAL ALL JAMB DEPTHS.

OPTIONAL W/ ACCESSORY GROOVE
 DRYWALL KERF / SAW KERF
 DETAIL "A" IS USED FOR ALL JAMB DEPTHS



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 DIE #, X-REF #, COMPARATOR #:

MATERIAL:
 WOOD

DIV./ORDER #:

DATE ORDERED:

Q.C. COMPARATOR CHECK:

FINISH:

CUT STOCK SIZE:

ECO OR W.S. #: 29904

FILE PATH:

DRAWN BY:

JK/EB

DATE:

12-28-12

Weather Shield
 Windows & Doors

PRODUCTS:

8306

TITLE:

JAMB, 4-9/16" WOOD

DWG. NO.

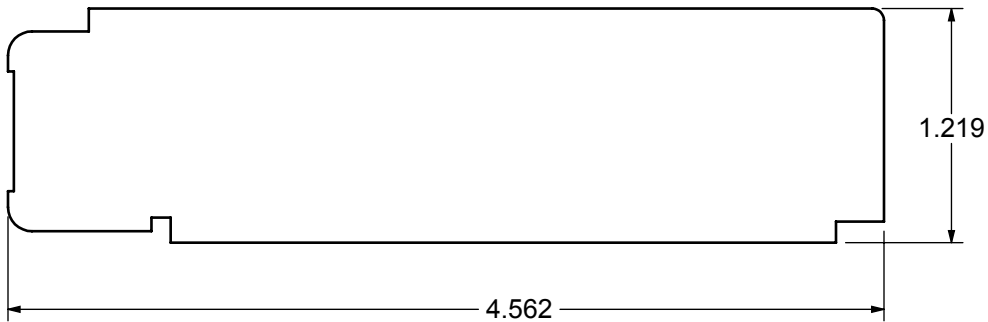
85-8275-01

SCALE: 1:1

SHEET NAME: Sheet1

SHEET 1 OF 2

REVISION	DATE	DESCRIPTION	WHITE SLIP NUMBER	ENG.	DO NOT SCALE DRAWING	DRAWN BY:	DATE:	SCALE: 1:1	SHEET NAME: Sheet1	SHEET 1 OF 2
A.1	7-26-13	ADDED ADDITIONAL INFORMATION. UPDATED THE TITLE BLOCK	30052	EB/JK						
B	9-20-13	UPDATED, ADDED PAGE 2	30052	EB						
C	1-8-13	ADDED NOTE FOR DETAIL "A" & "B"	30046	EB/JK						



Area = 5.399

Perimeter = 9.162

Centroid
X = 0.000
Y = 0.000

Bounding Box
X: -2.319 X: 2.243
Y: -0.614 Y: 0.605

Moments of inertia of the area, at the centroid
X = 0.026
Y = 8.965

Radii of gyration:
X: 0.069
Y: 1.287

Principal moments of inertia of the area, at the centroid
Mx: 0.643
My: 8.965

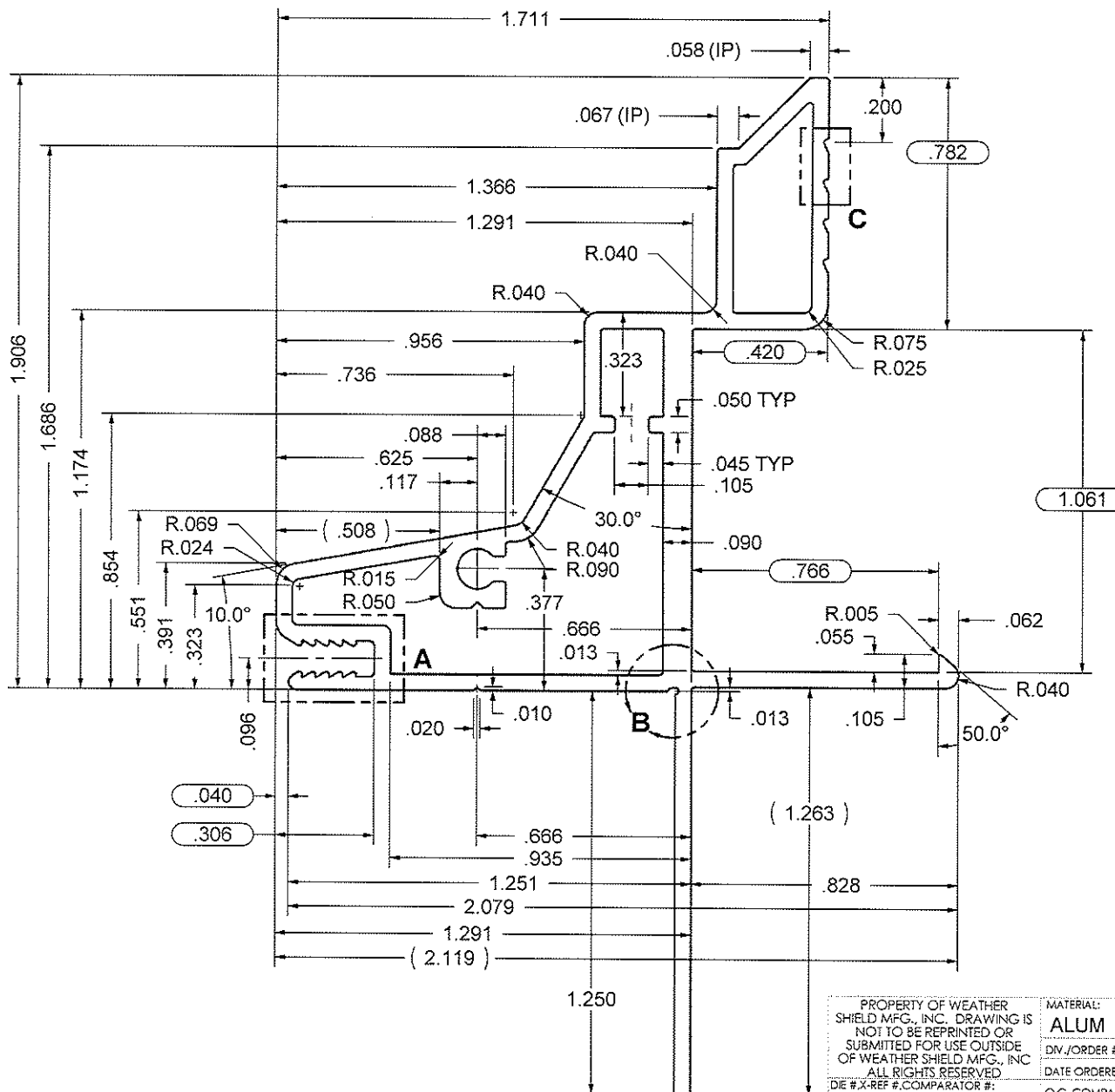
TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

PRODUCTS:
8306

DRAWN BY: EMB	DATE: 07/22/2015	TITLE: Wood Frame	REV
PROPERTY OF WEATHER SHIELD MFG., INC. DRAWING IS NOT TO BE REPRINTED OR SUBMITTED FOR USE OUTSIDE OF WEATHER SHIELD MFG., INC. ALL RIGHTS RESERVED.		DWG NO.: 45-00665	
SCALE: 1:1		SHEET NAME: Sheet1	SHEET 1 OF 1

Weather Shield
Windows & Doors

					TYP. WALL THICKNESS:
					WT/FT:
					AREA:
					MAT: Wood
					FINISH:
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:
					PROFILE # 85-8275

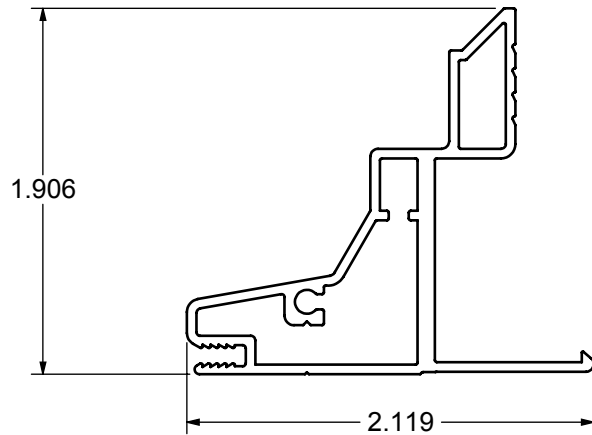


MATERIAL REQUIREMENTS:

MATERIAL - 6063-T5 ALUMINUM
TYPICAL WALL THICKNESS .050 ± .005
UNLESS OTHERWISE NOTED
ALL DIMENSIONS ±.010 UNLESS OTHERWISE NOTED
ALL ANGLES ±0.5° UNLESS OTHERWISE NOTED
ALL RADII .010 UNLESS OTHERWISE NOTED
FINISH - PAINTED OR ANODIZED

REVISION DATE DESCRIPTION WHITE SLIP NUMBER ENG.				DO NOT SCALE DRAWING DRAWN BY: TP/JK		DATE: 3-12-12		SCALE: 1:1 SHEET NAME: Sheet1		SHEET 1 OF 3	
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TYP. WALL THICKNESS: .050 AREA: .507 WT./FT.: .594 FILE PATH:				TITLE: DIRECT SET, FRAME		DWG. NO. 85-7309-01		REV.			

Weather Shield
Windows & Doors



Area = 0.445

Perimeter = 9.162

Centroid
X = 0.000
Y = 0.000

Bounding Box
X: -1.068 X: 1.051
Y: -0.636 Y: 1.270

Moments of inertia of the area, at the centroid
X = 0.058
Y = .115

Radii of gyration:
X: 0.361
Y: 0.508

Angle between principal axes and part axes = 50.513 degrees

Principal moments of inertia of the area, at the centroid
Mx: 0.067
My: 0.186

TOLERANCES UNLESS SPECIFIED:	
INCHES	ANGLE
.X ± .1"	XX ± 1°
.XX ± .03"	XX.X ± .5° (1/2°)
.XXX ± .015"	XX.XX ± .25° (1/4°)

PRODUCTS:
8306

DRAWN BY: EMB	DATE: 07/22/2015	TITLE: DIRECT SET NOSING	REV
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SCALE: 1:1		SHEET NAME: Sheet1	SHEET 1 OF 1

Weather Shield
Windows & Doors

					TYP. WALL THICKNESS:
					WT/FT:
					AREA:
					MAT: Aluminum
					FINISH:
REV	DATE	DESCRIPTION	PCR NO.	ENG	PDR #:
					PROFILE # 85-7309-01