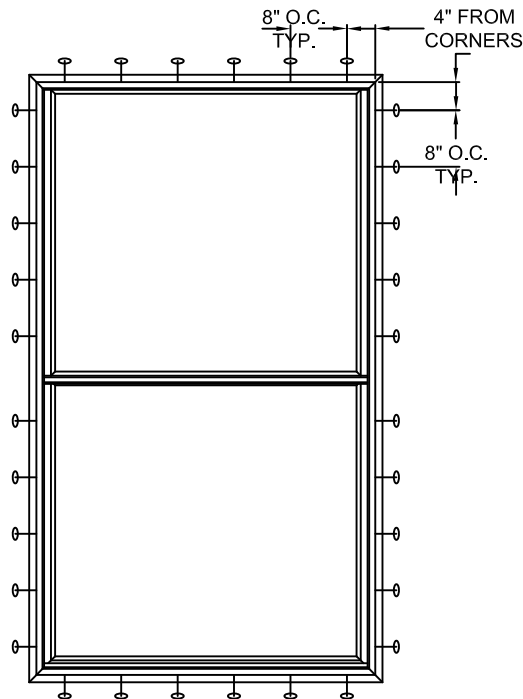
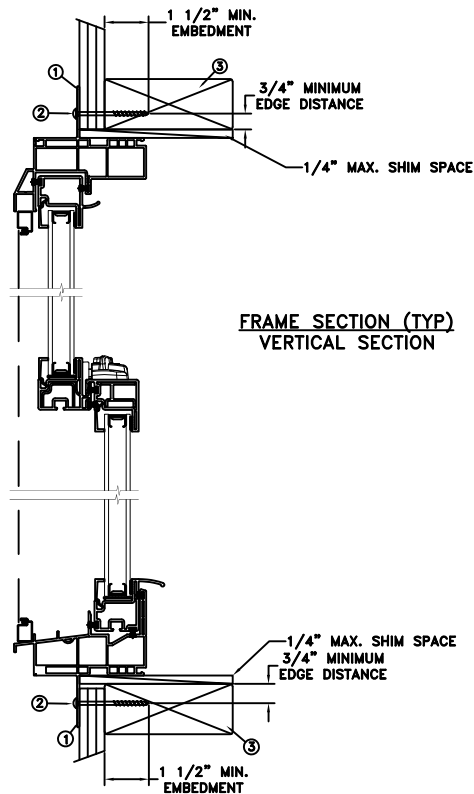
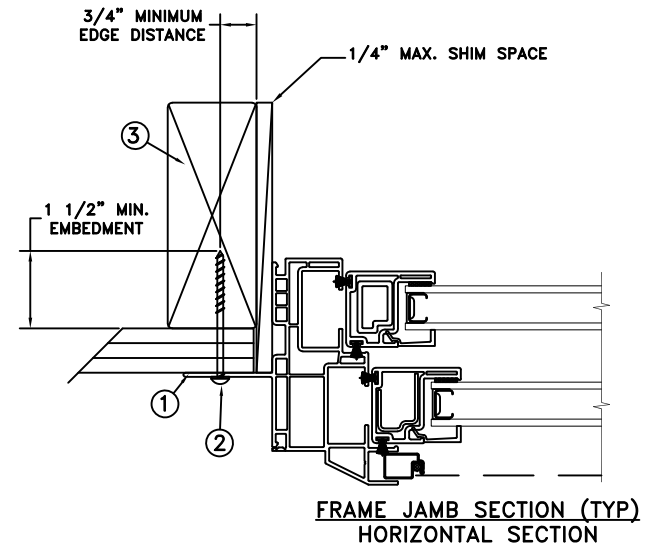




TYPICAL ELEVATION WITH FASTENER SPACING



**NAILFIN/SCREW-WOOD
INSTALLATION**



MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use #8 PH or greater fastener through the nailing flange with sufficient length to penetrate a minimum of 1-1/2" into the wood framing. For 2x wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

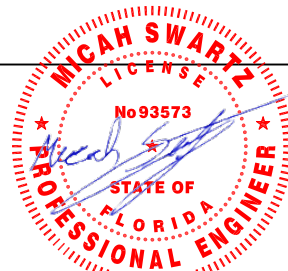
1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.

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MICAH SWARTZ, P.E.

PE No. 93573

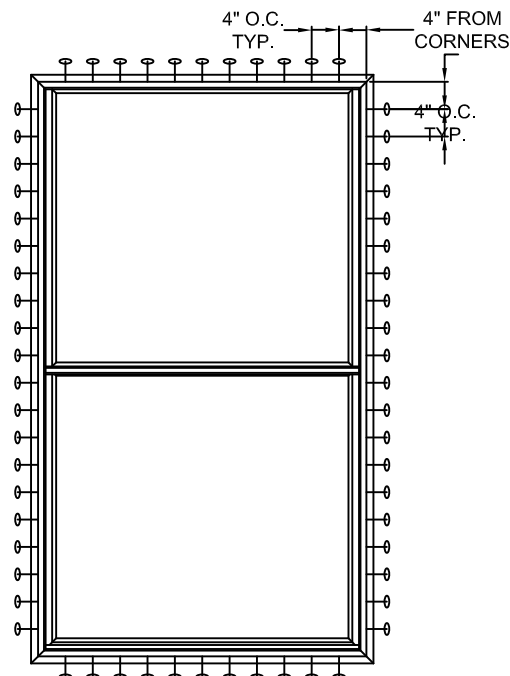
5134 Cambridge Ct.

Klamath Falls, OR. 97603

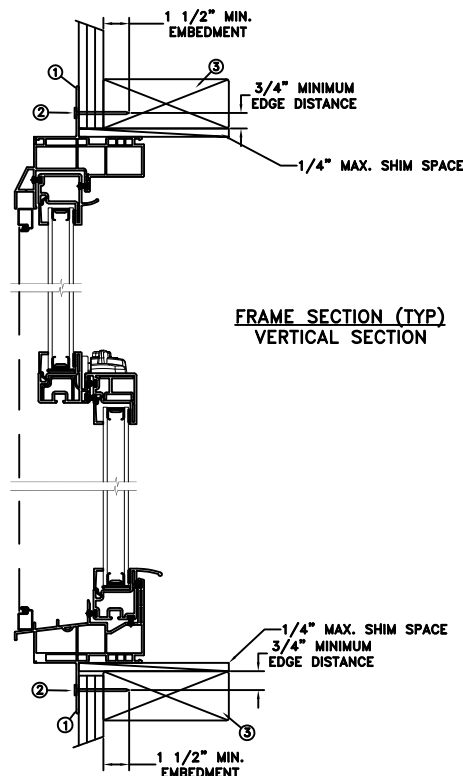
(541) 363-8075

	DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: M.HAM	SCALE: NTS	
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt	
APPROVED BY: J.GOOSSEN	RECORD NO.: D014484	
REPORT NO.: ESP024843P.3	CAD DWG. No.: —	REV: E SHEET 1 of 10

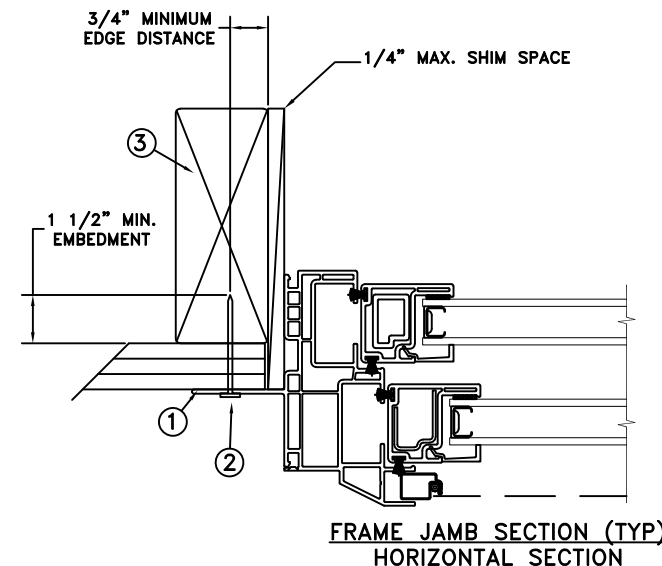
NAILFIN/NAIL-WOOD INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use 6d x 2" fastener through the nailing flange with sufficient length to penetrate a minimum of 1-1/2" into the wood framing. For 2x wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

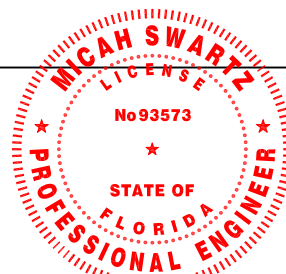
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2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.

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DISCLAIMER:

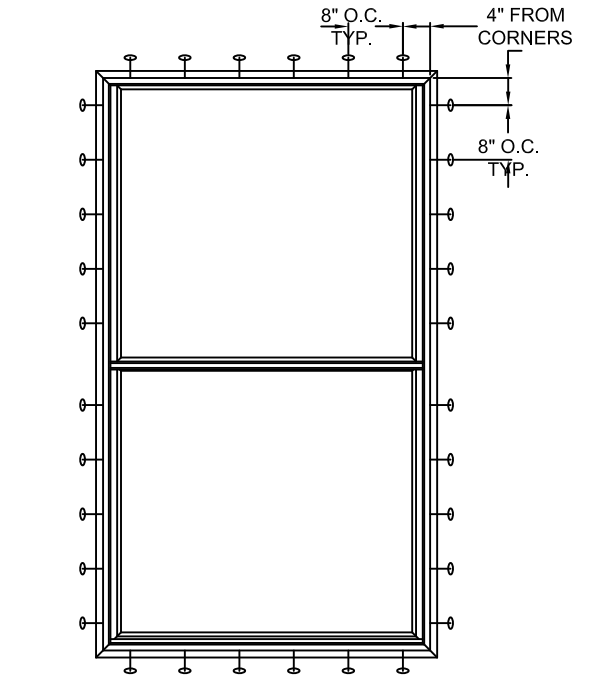
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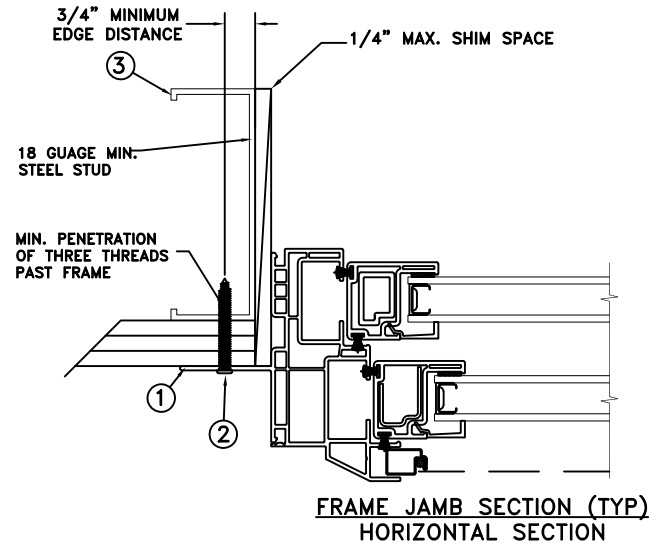
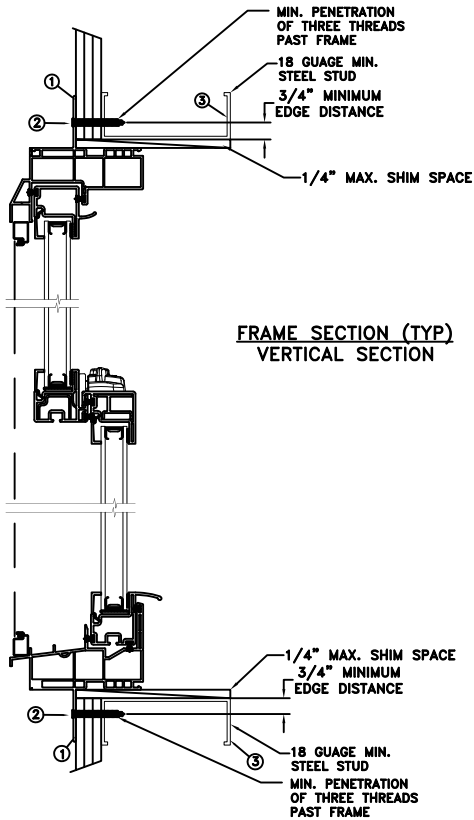
MICAH SWARTZ, P.E. 02/20/26
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

	DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936		
DRAWN BY: M.HAM	SCALE: NTS			
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt			
APPROVED BY: J.GOOSSEN				
RECORD NO.: D014484				
REPORT NO.: ESP024843P.3		CAD DWG. No.: —	REV: E	SHEET 2 of 10

NAILFIN/SCREW-STEEL
INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. For anchoring through nailfin into metal framing use #10 TEK Self-Tapping screws with sufficient length to achieve a minimum penetration of three threads past the frame thickness. Steel substrate min. 18ga., fy = 33 ksi.
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

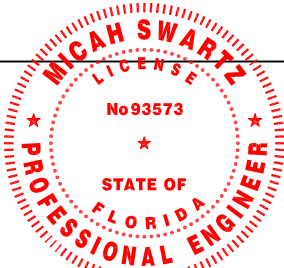
General Notes:

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.

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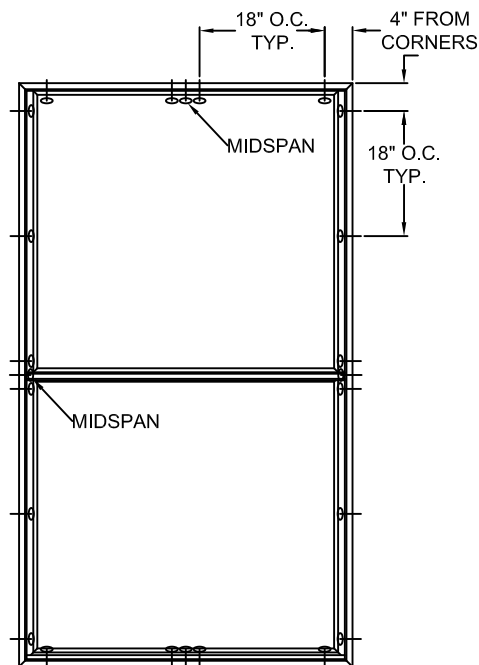
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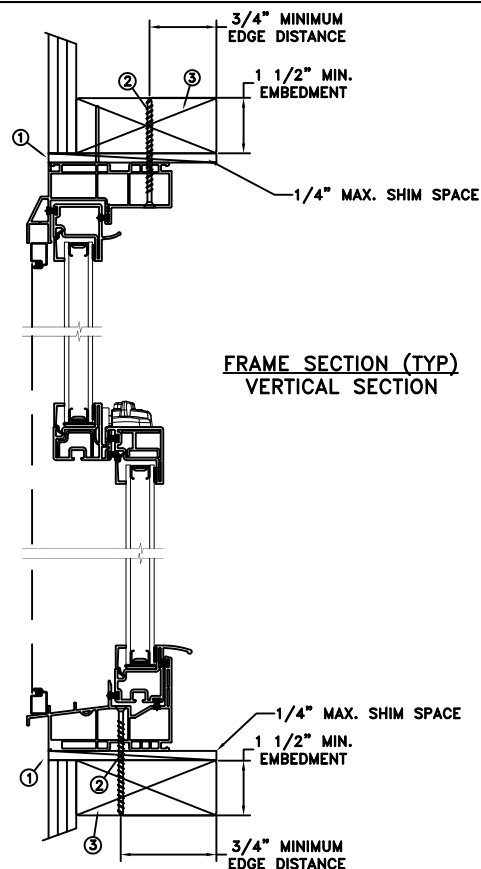
MICAH SWARTZ, P.E. 02/20/26
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

	DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936		
DRAWN BY: M.HAM	SCALE: NTS			
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt			
APPROVED BY: J.GOOSSEN				
RECORD NO.: D014484				
REPORT NO.: ESP024843P.3		CAD DWG. No.: —	REV: E	SHEET 3 of 10

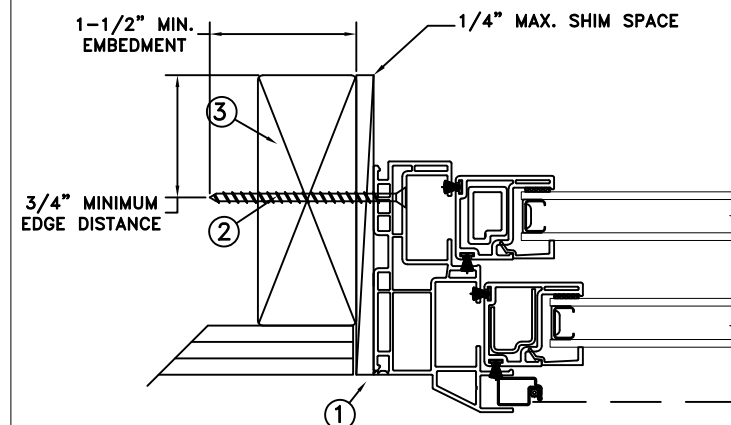
THROUGH FRAME/SCREW WOOD INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fasteners are used to anchor the sill (typical).
2. Use #8 PH or greater fastener through the head & side jambs with sufficient length to penetrate a minimum of 1-1/2" into the wood framing. For 2x wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

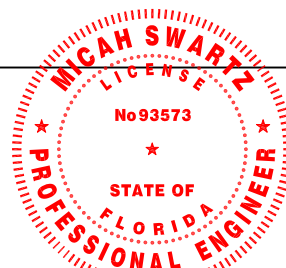
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2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.

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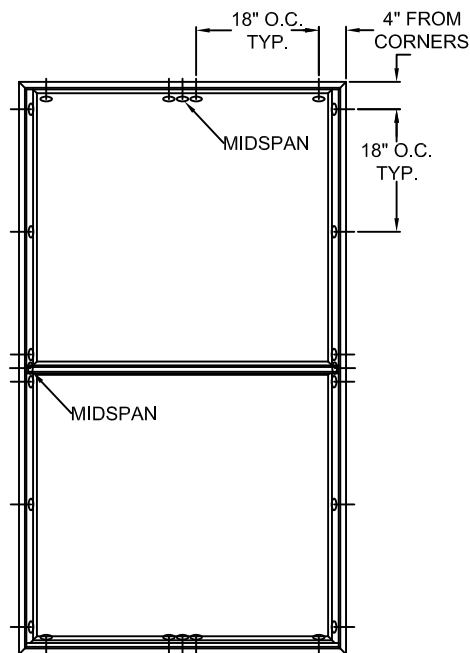
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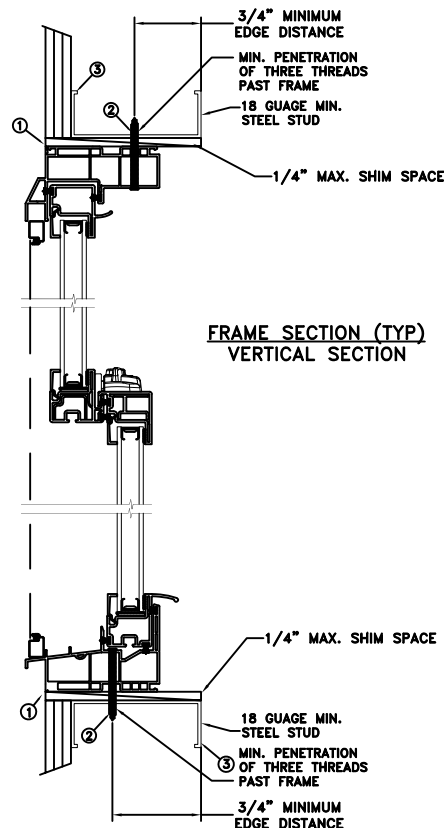
MICAH SWARTZ, P.E. 02/20/26
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: M.HAM	
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt
APPROVED BY: J.GOOSSEN	
RECORD NO.: D014484	CAD DWG. No.: —
REPORT NO.: ESP024843P.3	
REV: E	SHEET 4 of 10

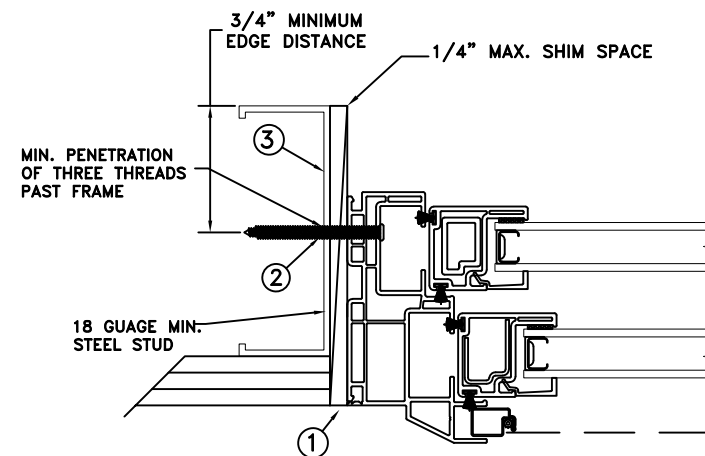
THROUGH FRAME/SCREW STEEL INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. For anchoring through head and side jambs into metal framing use #10 TEK Self-Tapping screws with sufficient length to achieve a minimum penetration of three threads past the frame thickness. Steel substrate min. 18ga., fy = 33 ksi.
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

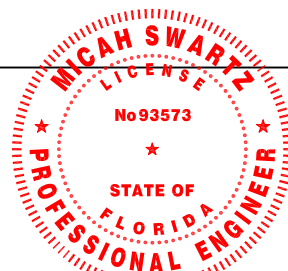
1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.

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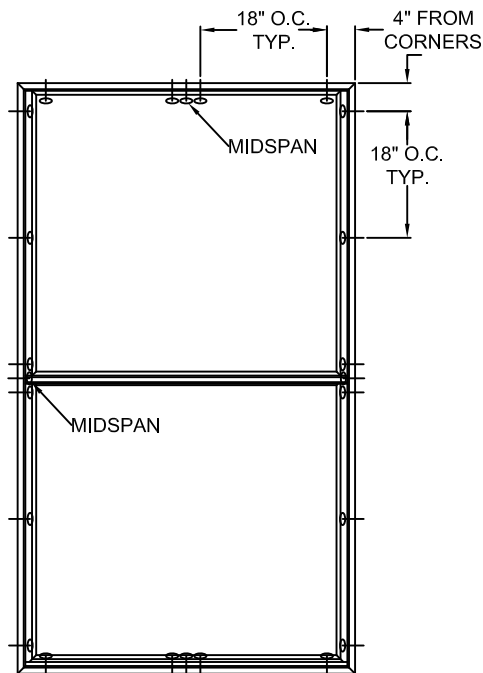
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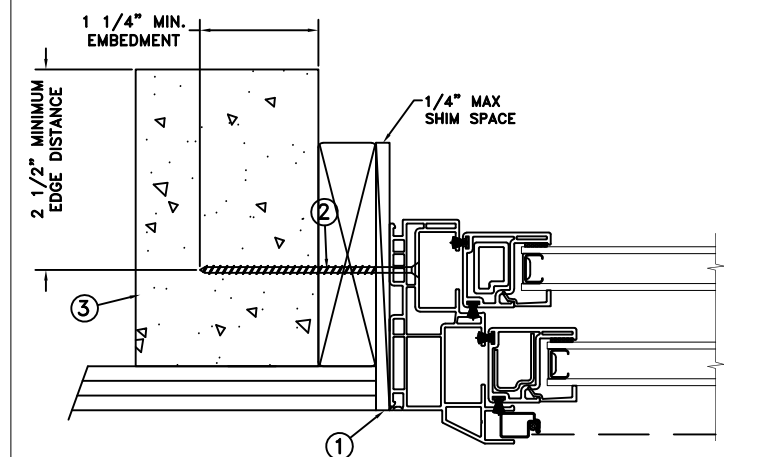
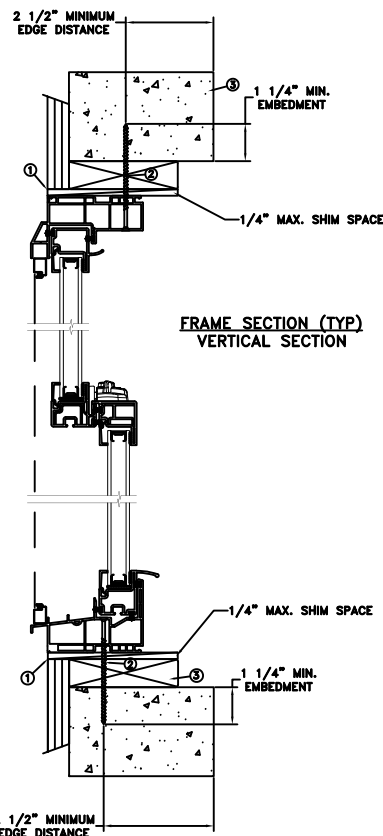
MICAH SWARTZ, P.E. 02/20/26
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

	DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936			
DRAWN BY: M.HAM	SCALE: NTS				
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt				
APPROVED BY: J.GOOSSEN					
RECORD NO.: D014484					
REPORT NO.: ESP024843P.3	CAD DWG. No.: —		REV: E	SHEET 5 of 10	

THROUGH FRAME/SCREW CONCRETE INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use 3/16" Tapcon or equivalent fasteners through the head and side jambs with sufficient length to penetrate a minimum of 1-1/4" into concrete or masonry at each location with a 2-1/2" min. from edge distance. For concrete (min. $f_c = 3000$ psi) or masonry substrate (CMU shall be ASTM C90).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

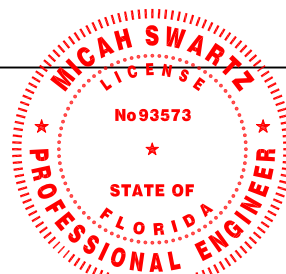
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2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.

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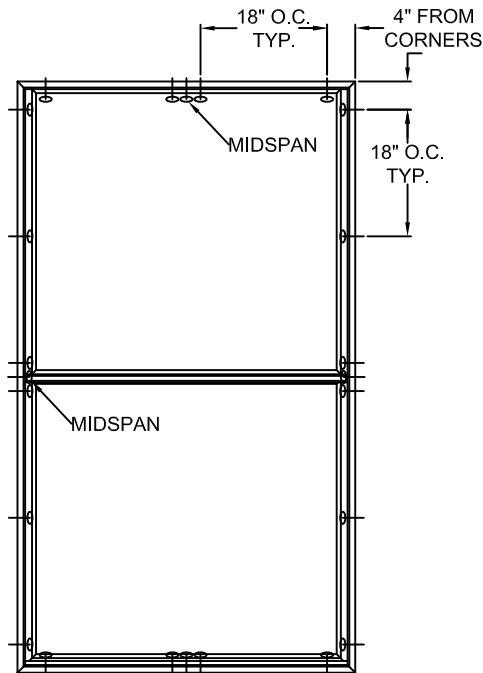
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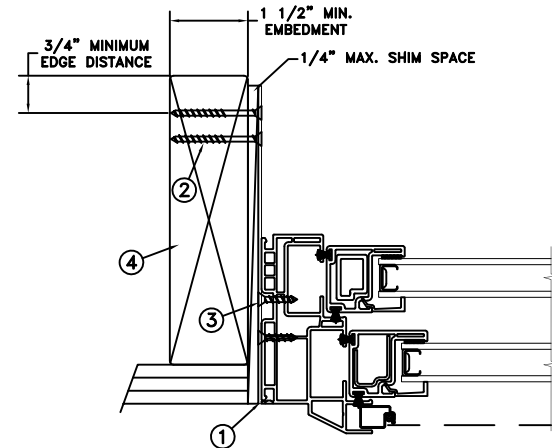
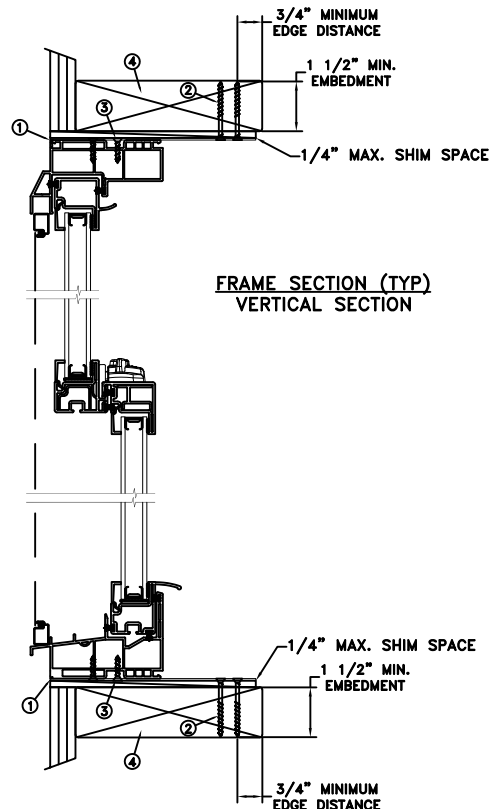
MICAH SWARTZ, P.E. 02/20/26
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

	DATE: 02/13/2026	JELD-WEN	3737 LAKEPORT BLVD.	
DRAWN BY: M.HAM	SCALE: NTS		KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936	
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt			
APPROVED BY: J.GOOSSEN				
RECORD NO.: D014484				
REPORT NO.: ESP024843P.3		CAD DWG. No.: —	REV: E	SHEET 6 of 10

MASONRY STRAP WOOD/SCREW INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



**FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION**

MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use two (2) - #8 PFH or larger fasteners through masonry strap with sufficient length to penetrate a minimum of 1-1/2" into the buck. For 2x wood frame substrate (min. S.G. = 0.42).
3. Use two (2) - #8 PFH or larger fasteners through masonry strap into jamb without penetrating through the jamb into product causing visibility or collateral damage to product.
4. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

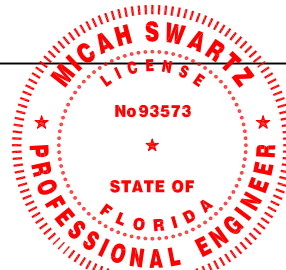
1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.
5. Masonry strap specifications: 20 Ga. galvanized steel, .036 min. thickness x 1.5" min. width.

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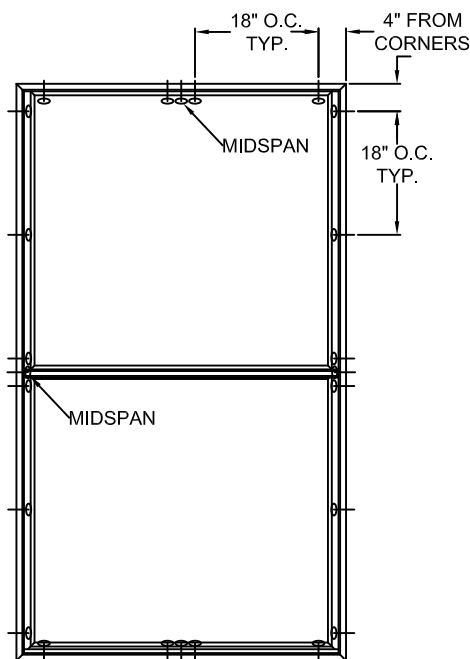
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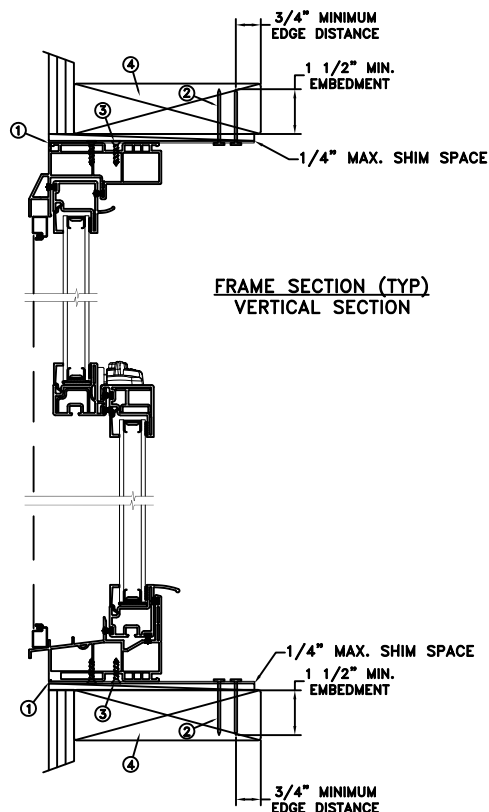
MICAH SWARTZ, P.E.
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936	
DRAWN BY: M.HAM		
CHECKED BY: M.HAM	Premium (V-4500) Vinyl Double Hung Tilt	
APPROVED BY: J.GOOSSEN		
RECORD NO.: D014484	CAD DWG. No.:	REV: E
REPORT NO.: ESP024843P.3	—	SHEET 7 of 10

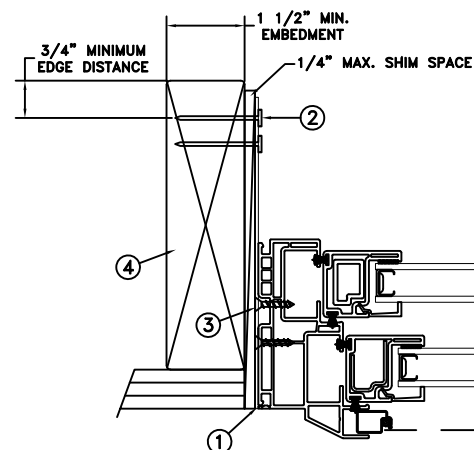
MASONRY STRAP WOOD/NAIL INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use two (2) - 6d x 2" fasteners through masonry strap with sufficient length to penetrate a minimum of 1-1/2" into the buck. For 2x wood frame substrate (min. S.G. = 0.42).
3. Use two (2) - #8 PFH or larger fasteners through masonry strap into jamb without penetrating through the jamb into product causing visibility or collateral damage to product.
4. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

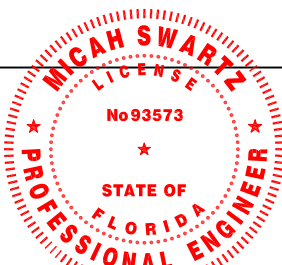
1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.
5. Masonry strap specifications: 20 Ga. galvanized steel, .036 min. thickness x 1.5" min. width.

This item has been digitally signed and sealed by Micah Swartz, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

This schedule addresses only the fasteners required to anchor the unit to achieve the rated design pressure and impact performance (where applicable) up to the size limitations noted. It is not intended as a guide to the installation process and does not address the sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the unit or go to www.jeld-wen.com.

DISCLAIMER:

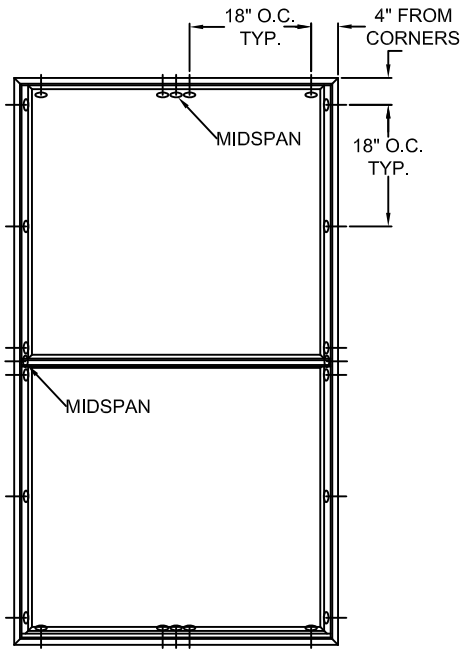
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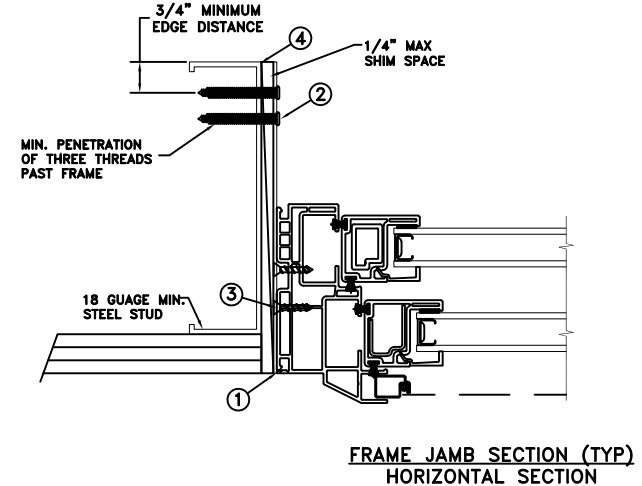
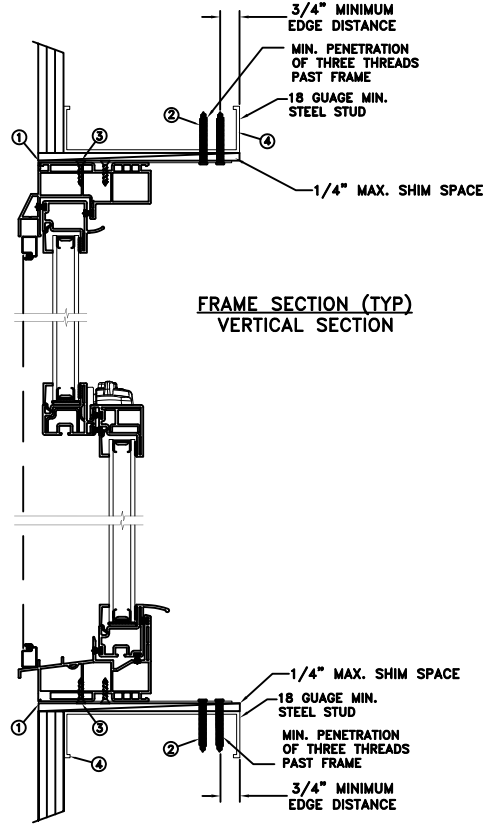
MICAH SWARTZ, P.E. 02/20/26
PE No. 93573
5134 Cambridge Ct.
Klamath Falls, OR. 97603
(541) 363-8075

DATE: 02/13/2026	JELD-WEN 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: M.HAM	
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt
APPROVED BY: J.GOOSSEN	
RECORD NO.: D014484	CAD DWG. No.: —
REPORT NO.: ESP024843P.3	
REV: E	SHEET 8 of 10

MASONRY STRAP STEEL/SCREW INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use two (2) - #10 TEK Self-Tapping or larger screws through masonry strap with sufficient length to achieve a minimum penetration of three threads past the frame thickness. Steel substrate min. 18ga., fy = 33 ksi.
3. Use two (2) - #8 PFH or larger fasteners through masonry strap into jamb without penetrating through the jamb into product causing visibility or collateral damage to product.
4. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

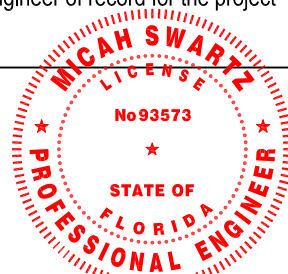
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2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.
5. Masonry strap specifications: 20 Ga. galvanized steel, .036 min. thickness x 1.5" min. width.

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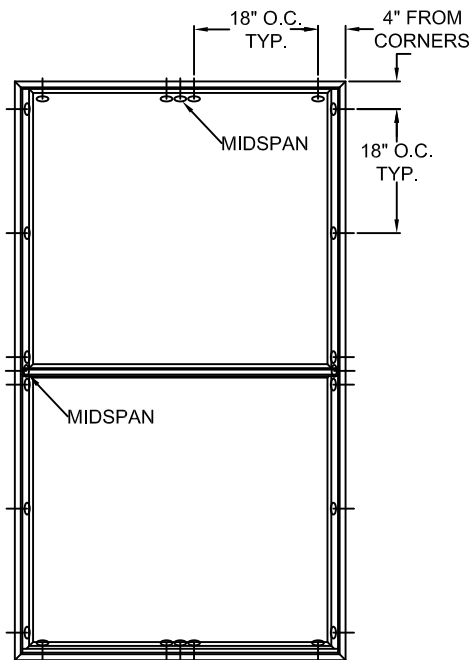
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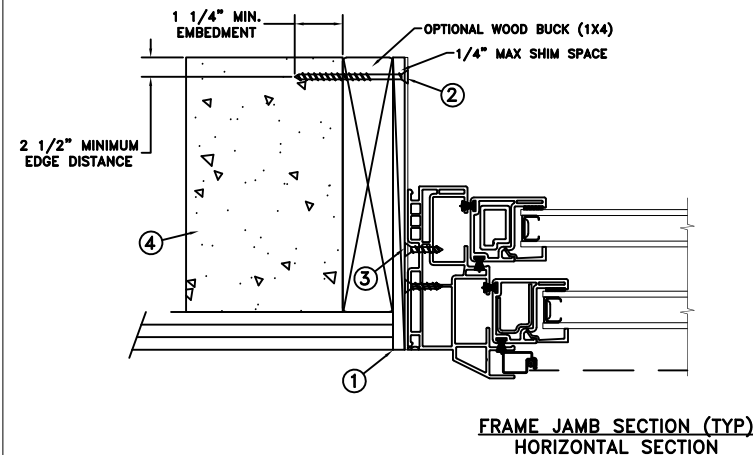
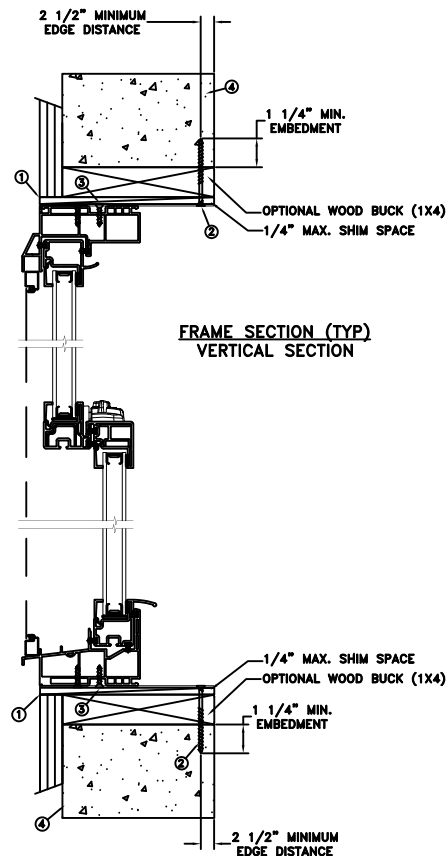
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DRAWN BY: M.HAM	
CHECKED BY: M.HAM	TITLE: Premium (V-4500) Vinyl Double Hung Tilt
APPROVED BY: J.GOOSSEN	
RECORD NO.: D014484	CAD DWG. No.: —
REPORT NO.: ESP024843P.3	
REV: E	SHEET 9 of 10

MASONRY STRAP CONCRETE SCREW INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING



MAXIMUM FRAME	DP	IMPACT
48" x 84"	+35/-40	NO

Installation Notes:

1. Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone caulk when no fastener is used to anchor the sill (typical).
2. Use one (1) - 3/16" Tapcon or equivalent fasteners through masonry strap with sufficient length to penetrate a minimum of 1-1/4" into the buck or concrete. For 2x wood frame substrate (min. S.G. = 0.42). For concrete (min. fc = 3000 psi) or masonry substrate (CMU shall be ASTM C90).
3. Use two (2) - #8 PFH or larger fasteners through masonry strap into jamb without penetrating through the jamb into product causing visibility or collateral damage to product.
4. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

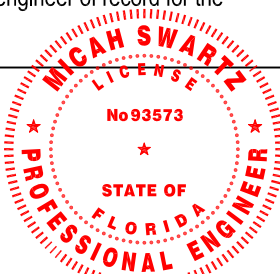
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2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3.1mm annealed - 13.0mm airspace - 3.1mm annealed glass.
4. Use structural or composite shims where required.
5. Masonry strap specifications: 20 Ga. galvanized steel, .036 min. thickness x 1.5" min. width.

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