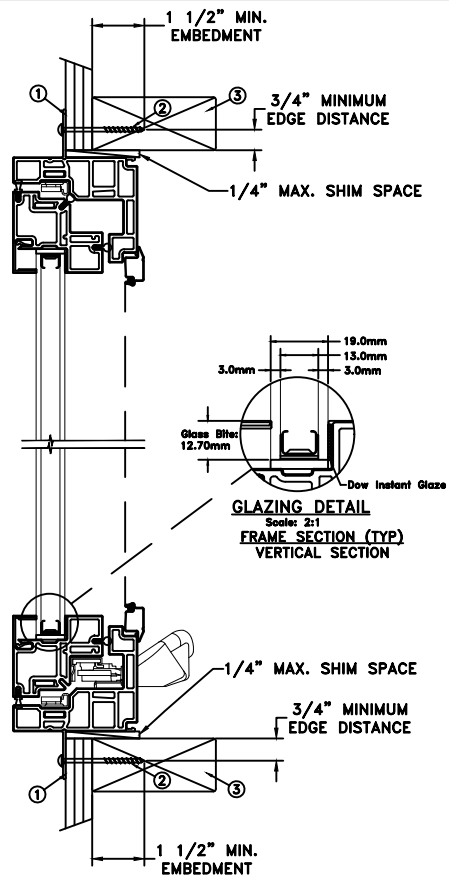
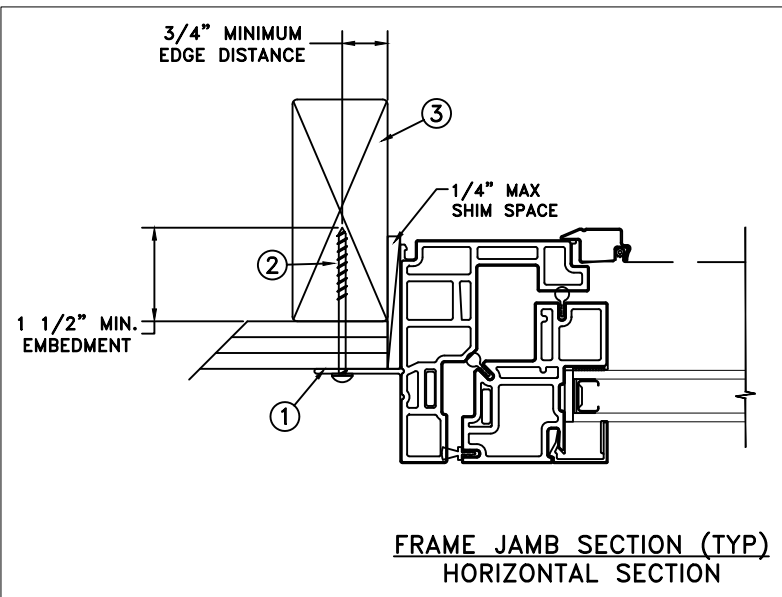


TYPICAL ELEVATION WITH FASTENER SPACING



GLAZING DETAIL  
FRAME SECTION (TYP)  
VERTICAL SECTION

NAILFIN/SCREW - WOOD  
INSTALLATION



FRAME JAMB SECTION (TYP)  
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
72" x 72"	+50/-55	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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).



*Joseph A. Reed*

2020.05.13 11:07:53 -04'00'

JOSEPH A. REED, P.E.  
Texas No. 100777  
5 Leigh Drive  
York, PA. 17406  
(717) 846-1200

DATE: 04/30/2020

DRAWN BY: T. BROOKS

SCALE: NTS

CHECKED BY: D. BELAU

APPROVED BY: J. KANTOLA

RECORD No.: D015677

REPORT No.: NCTL-310-20-036



3737 LAKEPORT BLVD.  
KLAMATH FALLS OR, 97601  
PHONE: (800) 535-3936

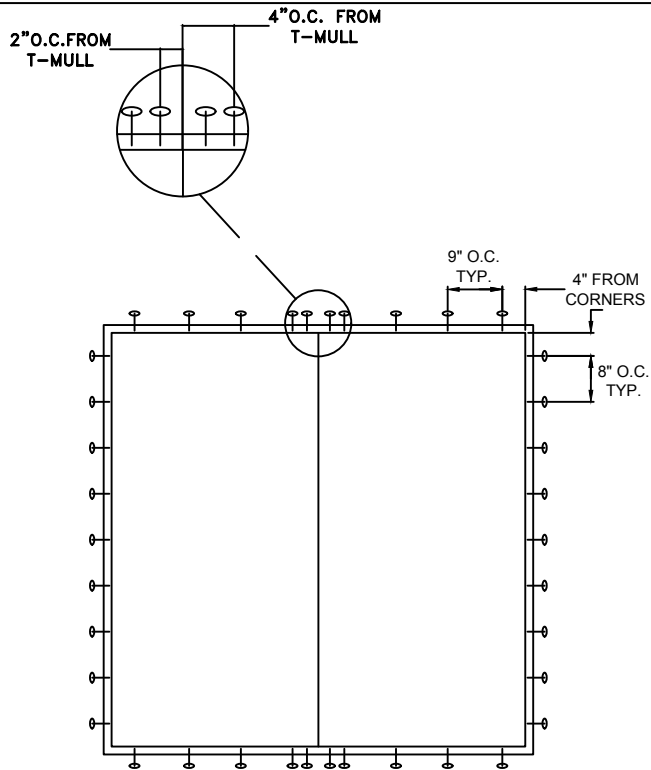
Auraline Composite Two Wide Casement

CAD DWG. No.: ---

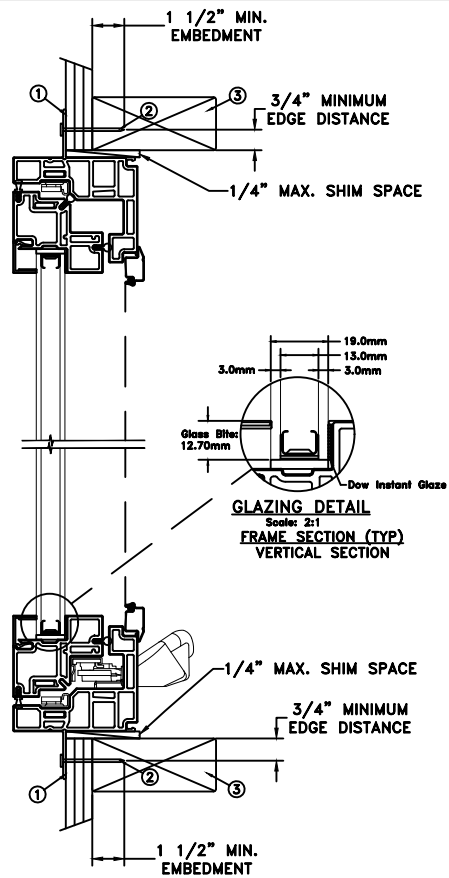
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SHEET 1 of 10

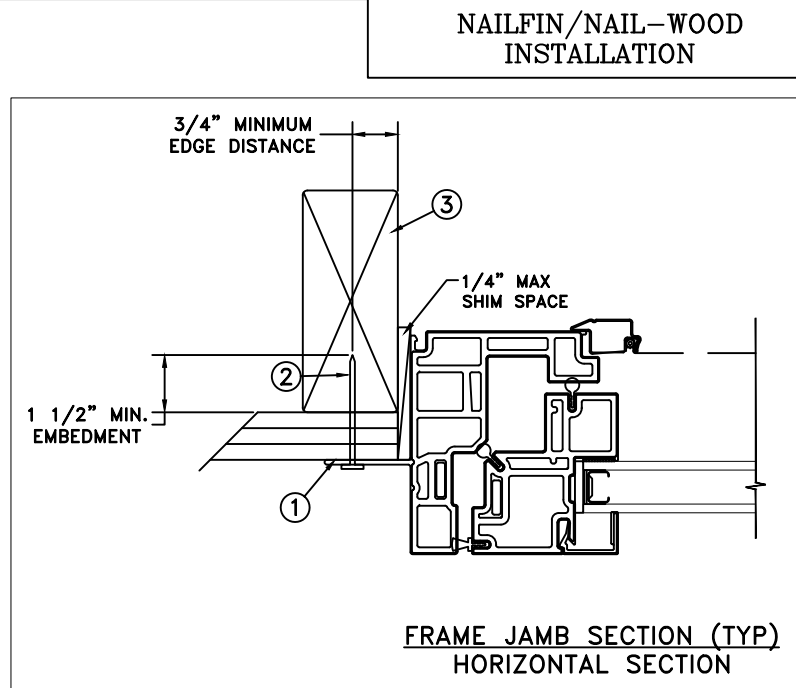
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TYPICAL ELEVATION WITH FASTENER SPACING



GLAZING DETAIL  
FRAME SECTION (TYP)  
VERTICAL SECTION



FRAME JAMB SECTION (TYP)  
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
72" x 72"	+50/-55	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:**

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).

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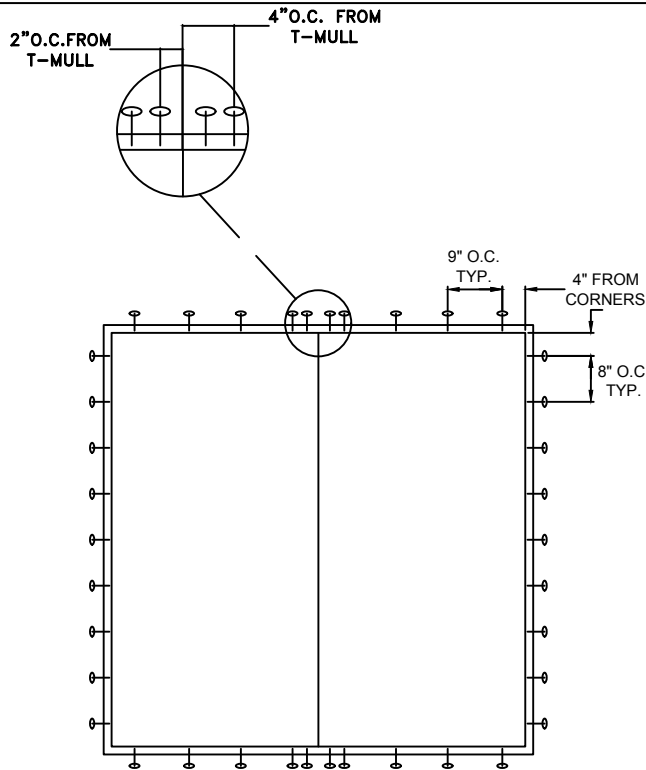


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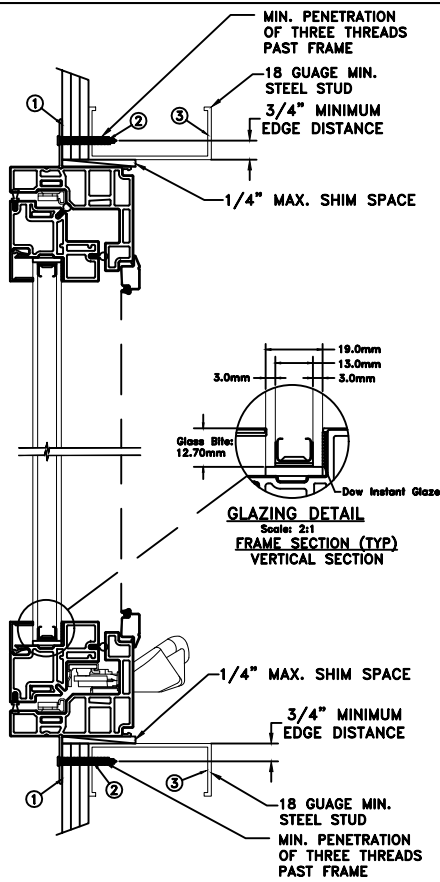
2020.05.13 11:07:53 -04'00'

**JOSEPH A. REED, P.E.**  
Texas No. 100777  
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(717) 846-1200

DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936		
SCALE: NTS			
DRAWN BY: T. BROOKS	TITLE: <b>Auraline Composite Two Wide Casement</b>		
CHECKED BY: D. BELAU			
APPROVED BY: J. KANTOLA			
RECORD No.: D015677			
REPORT No.: NCTL-310-20-036	CAD DWG. No.: ---	REV: A	SHEET 2 of 10

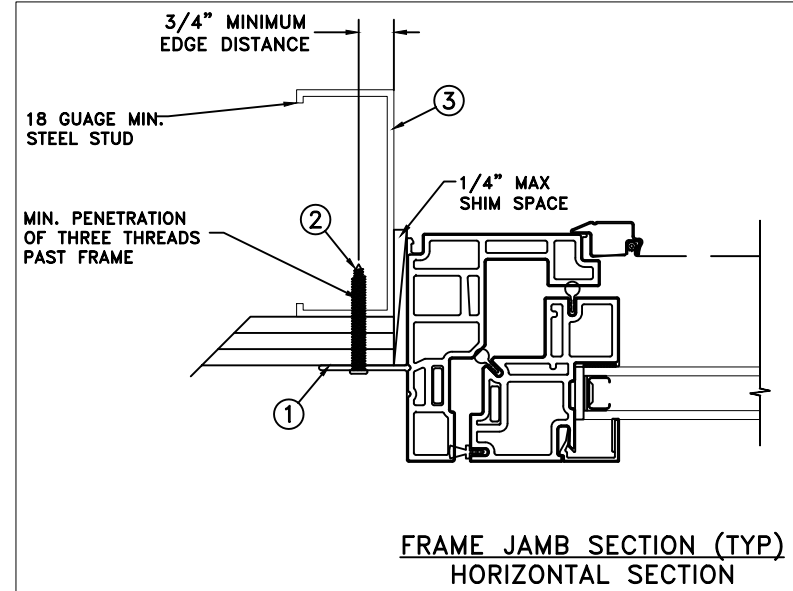


TYPICAL ELEVATION WITH FASTENER SPACING



GLAZING DETAIL  
Scale: 2:1  
FRAME SECTION (TYP)  
VERTICAL SECTION

NAILFIN/SCREW-STEEL  
INSTALLATION



FRAME JAMB SECTION (TYP)  
HORIZONTAL SECTION

MAXIMUM FRAME	DP	IMPACT
72" x 72"	+50/-55	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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).



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2020.05.13 11:07:53 -04'00'

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(717) 846-1200

DATE: 04/30/2020

DRAWN BY:  
T. BROOKS

SCALE: NTS

CHECKED BY:  
D. BELAU

APPROVED BY:  
J. KANTOLA

RECORD No.:  
D015677

REPORT No.:  
NCTL-310-20-036

**JELD-WEN**

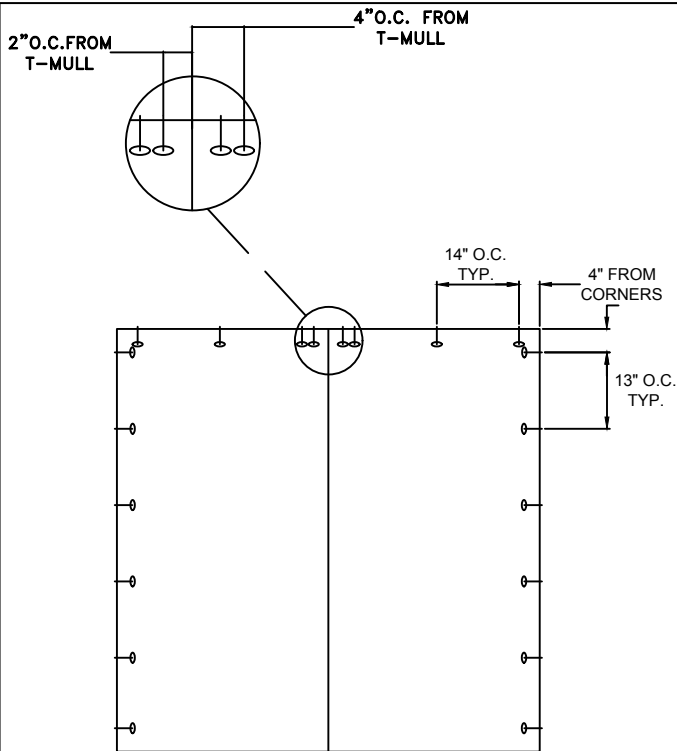
3737 LAKEPORT BLVD.  
KLAMATH FALLS OR, 97601  
PHONE: (800) 535-3936

Auraline Composite Two Wide Casement

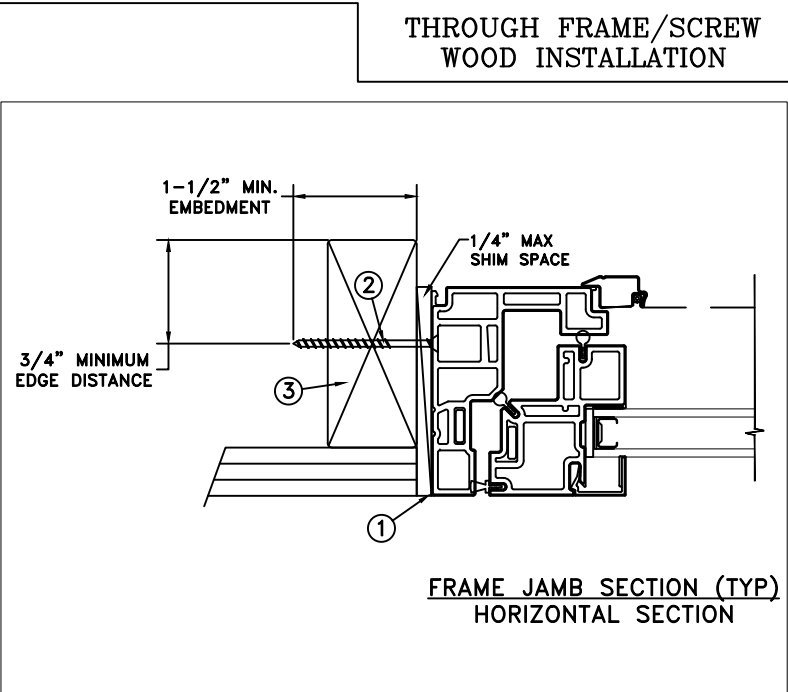
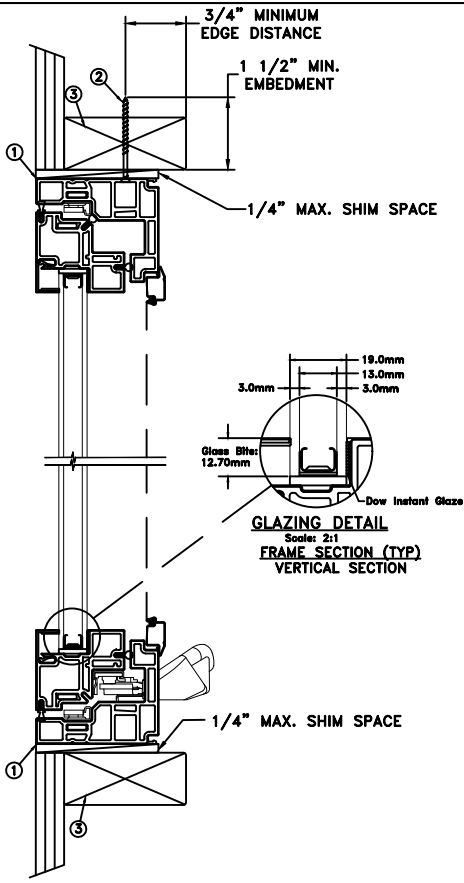
CAD DWG. No.: ---

REV: A SHEET 3 of 10

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**TYPICAL ELEVATION WITH FASTENER SPACING**



MAXIMUM FRAME	DP	IMPACT
72" x 72"	+50/-55	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:**

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).

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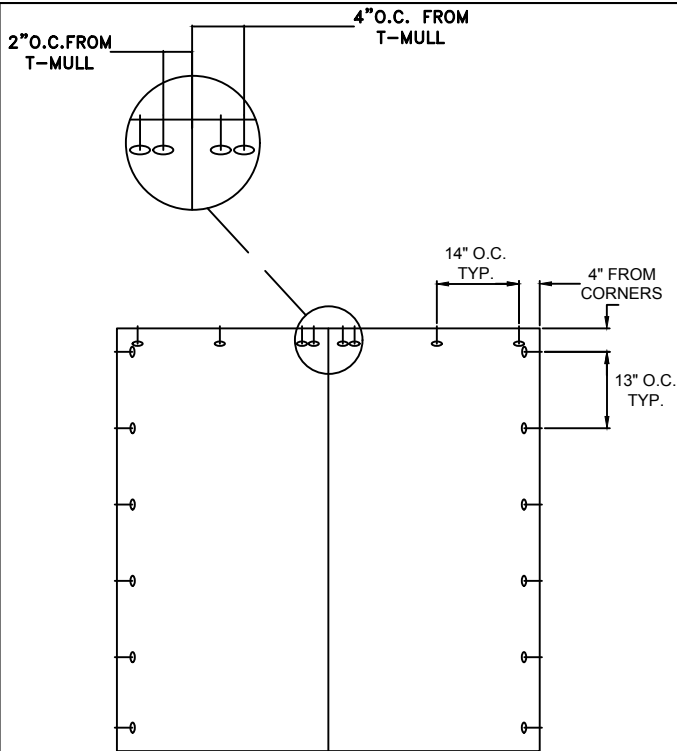


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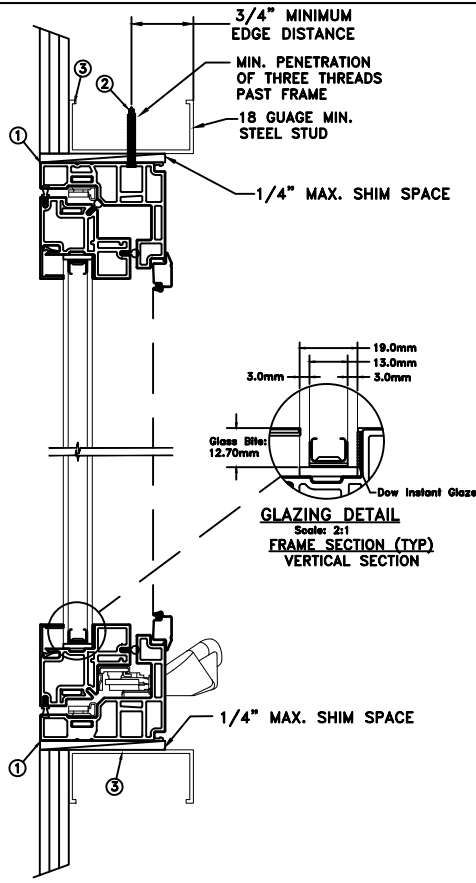
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**JOSEPH A. REED, P.E.**  
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York, PA. 17406  
(717) 846-1200

DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: T. BROOKS	
CHECKED BY: D. BELAU	SCALE: NTS
APPROVED BY: J. KANTOLA	TITLE: <b>Auraline Composite Two Wide Casement</b>
REPORT No.: NCTL-310-20-036	RECORD No.: D015677
CAD DWG. No.: ---	REV: A SHEET 4 of 10

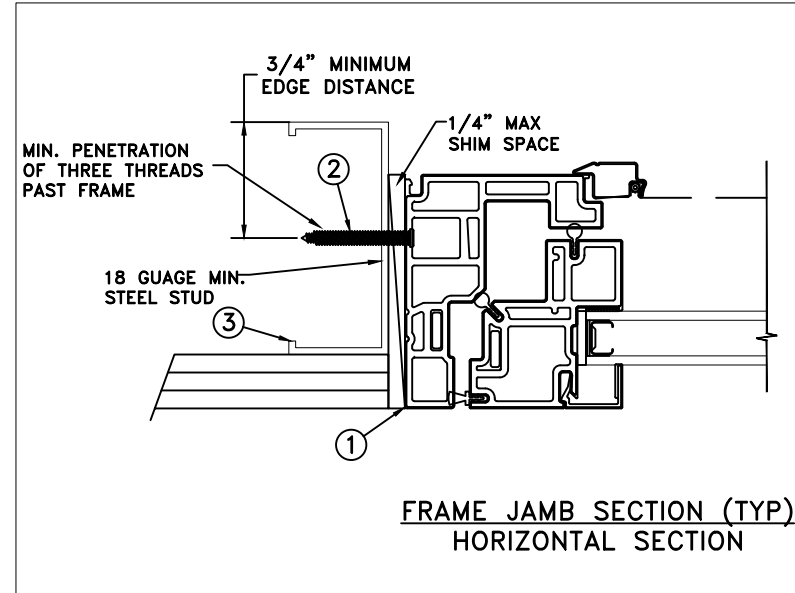


**TYPICAL ELEVATION WITH FASTENER SPACING**



**GLAZING DETAIL  
FRAME SECTION (TYP)  
VERTICAL SECTION**

**THROUGH FRAME/SCREW  
STEEL INSTALLATION**



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

<b>MAXIMUM FRAME</b>	<b>DP</b>	<b>IMPACT</b>
72" x 72"	+50/-55	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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).

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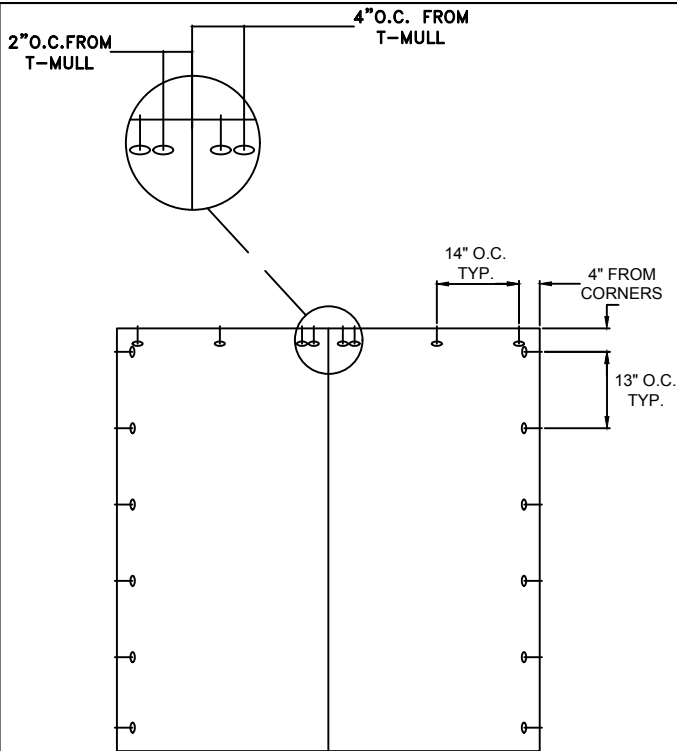


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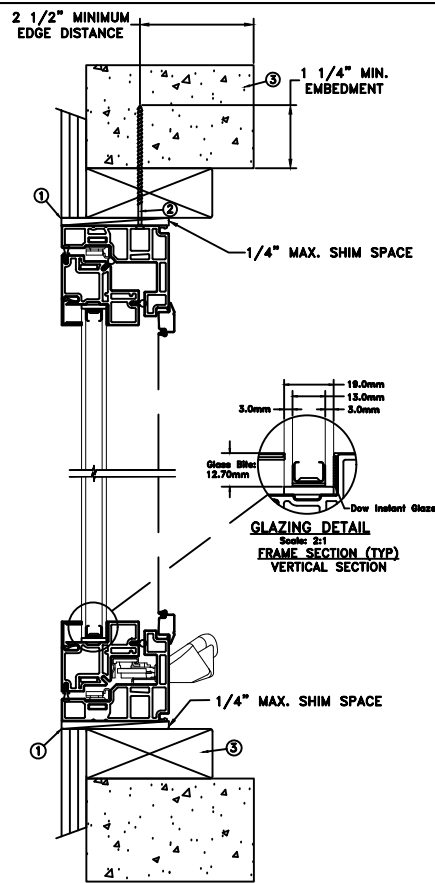
2020.05.13 11:07:53 -04'00'

**JOSEPH A. REED, P.E.**  
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York, PA. 17406  
(717) 846-1200

DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
SCALE: NTS	
DRAWN BY: T. BROOKS	<b>Auraline Composite Two Wide Casement</b>
CHECKED BY: D. BELAU	
APPROVED BY: J. KANTOLA	
RECORD No.: D015677	
REPORT No.: NCTL-310-20-036	CAD DWG. No.: ---
	REV: A SHEET 5 of 10

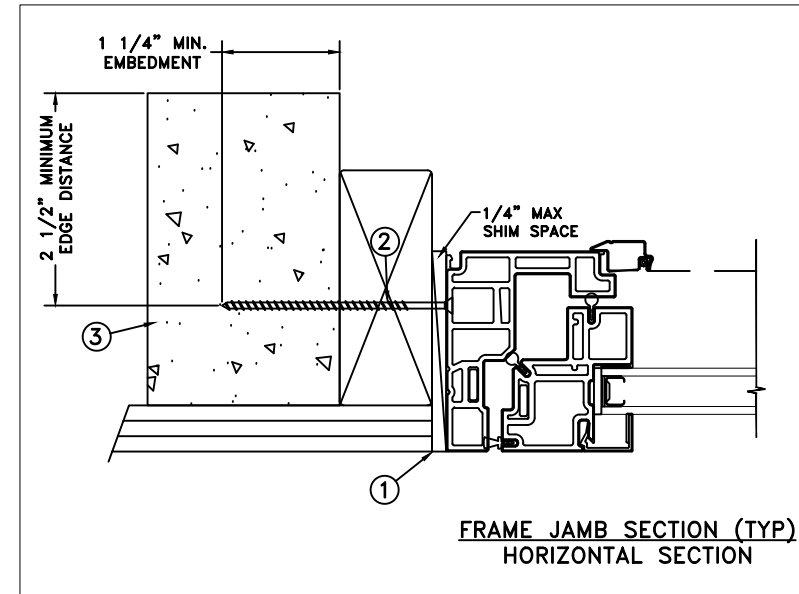


**TYPICAL ELEVATION WITH FASTENER SPACING**



**GLAZING DETAIL  
Section 21  
FRAME SECTION (TYP)  
VERTICAL SECTION**

**THROUGH FRAME/SCREW  
CONCRETE INSTALLATION**



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

<b>MAXIMUM FRAME</b>	<b>DP</b>	<b>IMPACT</b>
72" x 72"	+50/-55	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. fc = 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:**

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).

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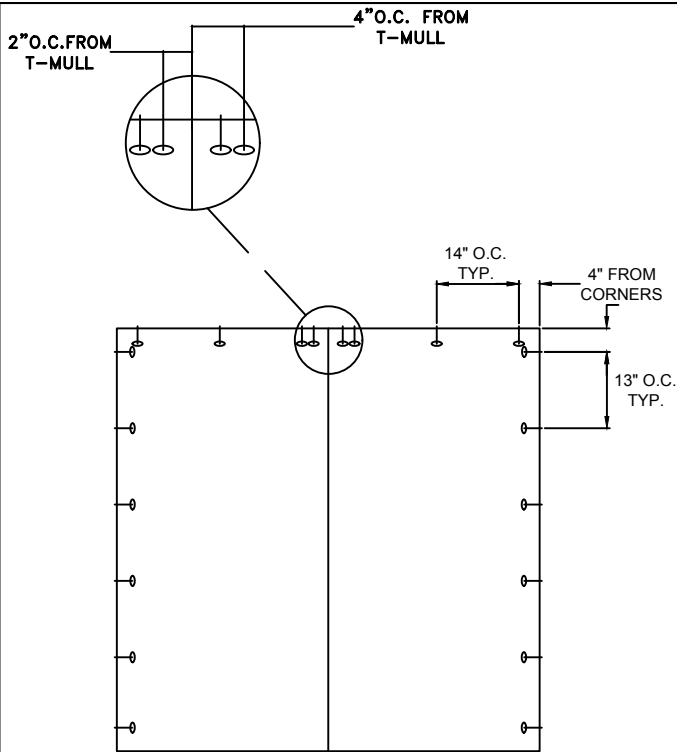


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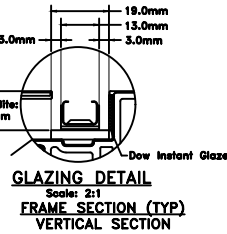
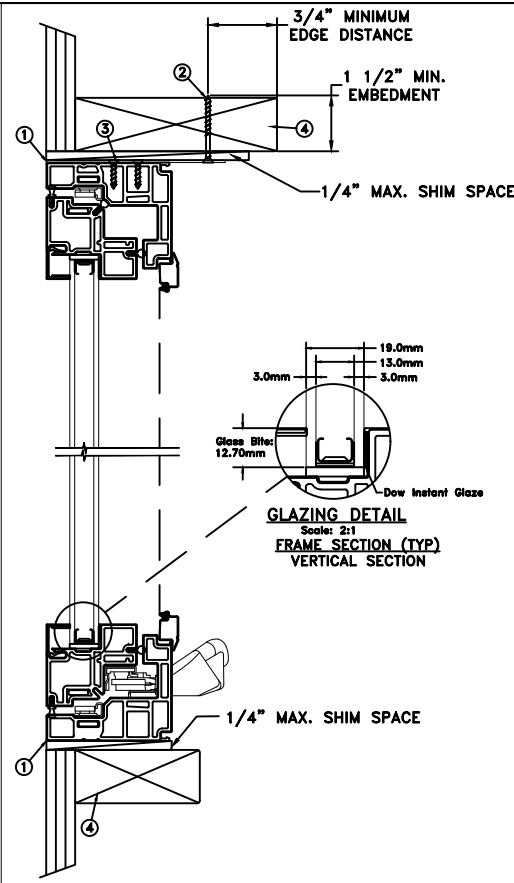
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(717) 846-1200

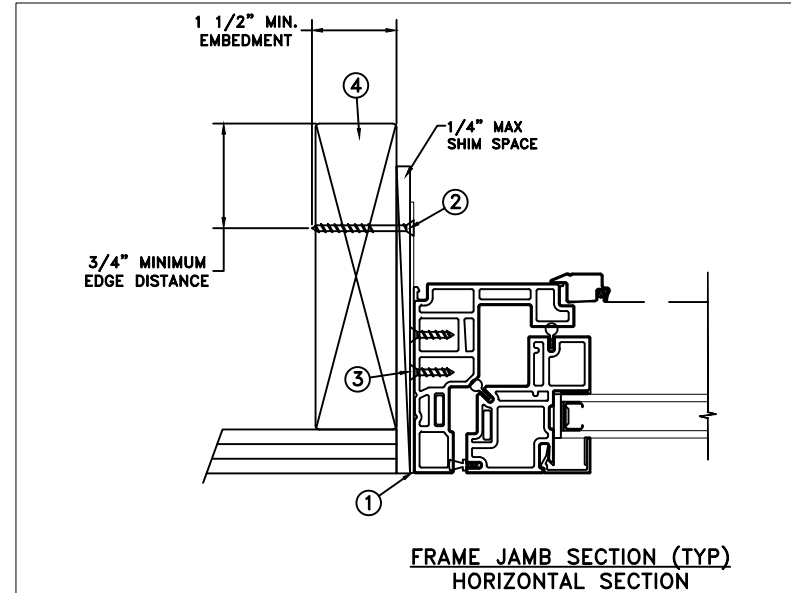
DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: T. BROOKS	
CHECKED BY: D. BELAU	SCALE: NTS
APPROVED BY: J. KANTOLA	TITLE: <b>Auraline Composite Two Wide Casement</b>
REPORT No.: NCTL-310-20-036	RECORD No.: D015677
CAD DWG. No.: ---	REV: A SHEET 6 of 10



**TYPICAL ELEVATION WITH FASTENER SPACING**



**MASONRY STRAP WOOD/SCREW INSTALLATION**



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

MAXIMUM FRAME	DP	IMPACT
72" x 72"	+50/-55	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 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 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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).

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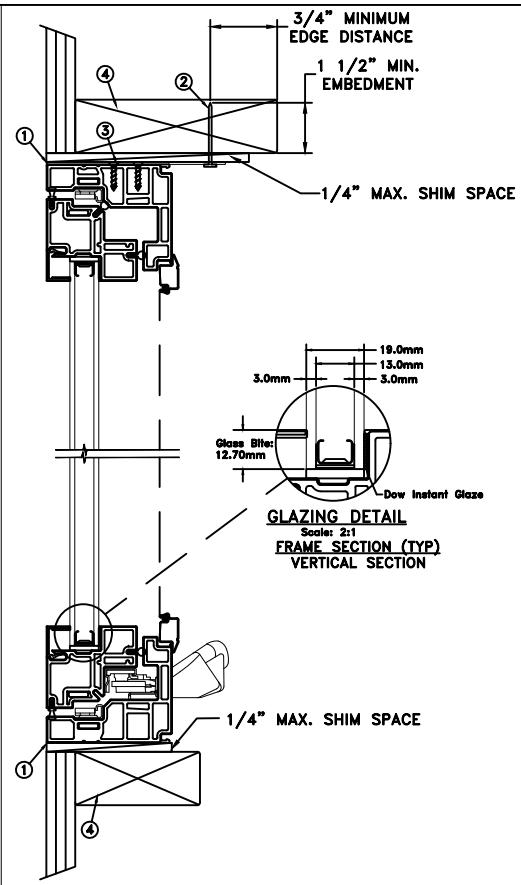
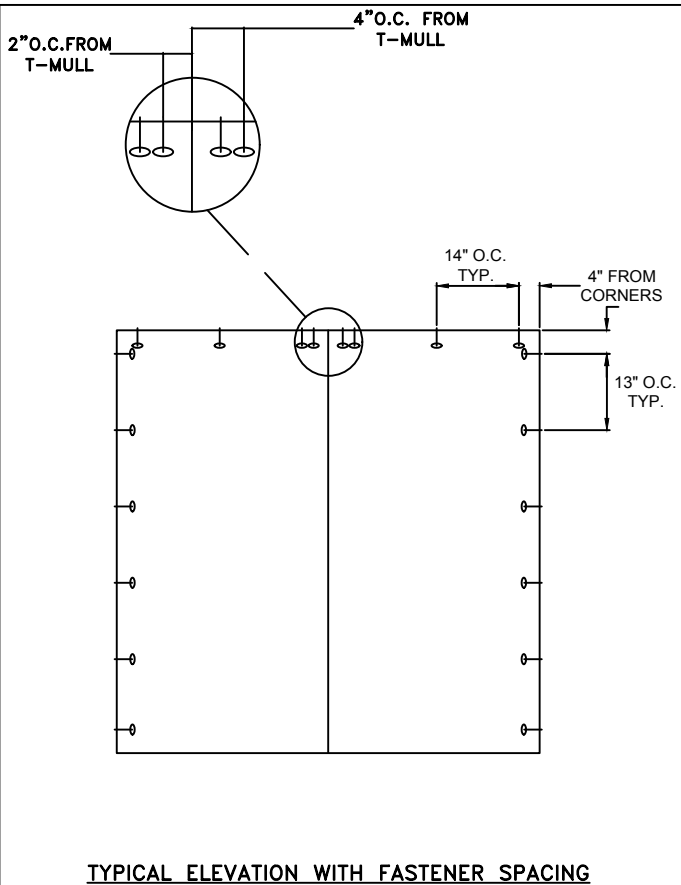


*Joseph A. Reed*

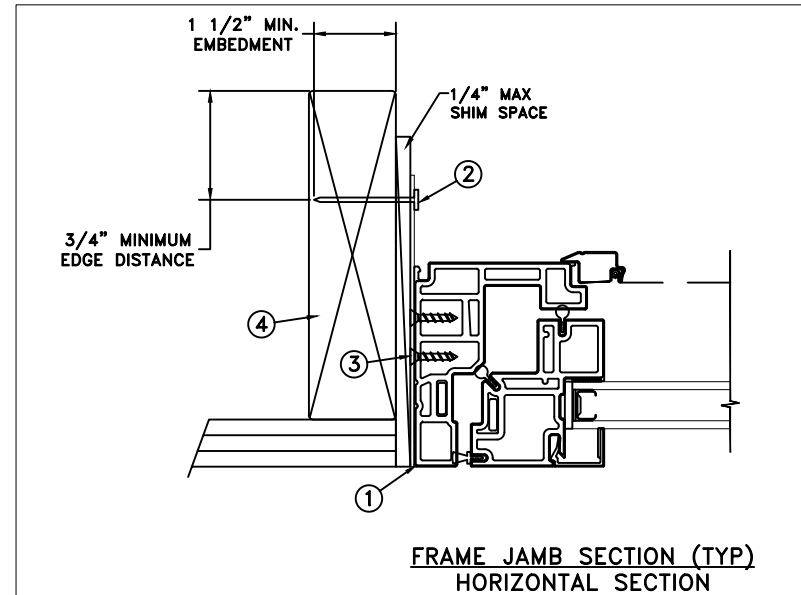
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**JOSEPH A. REED, P.E.**  
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York, PA. 17406  
(717) 848-1200

DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: T. BROOKS	
SCALE: NTS	TITLE: <b>Auraline Composite Two Wide Casement</b>
CHECKED BY: D. BELAU	RECORD No.: D015677
APPROVED BY: J. KANTOLA	REPORT No.: NCTL-310-20-036
CAD DWG. No.: ---	REV: A SHEET 7 of 10



**MASONRY STRAP  
WOOD/NAIL INSTALLATION**



MAXIMUM FRAME	DP	IMPACT
72" x 72"	+50/-55	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 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 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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).



*Joseph A. Reed*

2020.05.13 11:07:53 -04'00'

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5 Leigh Drive  
York, PA. 17406  
(717) 848-1200

DATE: 04/30/2020

SCALE: NTS

DRAWN BY: T. BROOKS

CHECKED BY: D. BELAU

APPROVED BY: J. KANTOLA

RECORD No.: D015677

REPORT No.: NCTL-310-20-036

**JELD-WEN**

3737 LAKEPORT BLVD.  
KLAMATH FALLS OR, 97601  
PHONE: (800) 535-3936

**Auraline Composite Two Wide Casement**

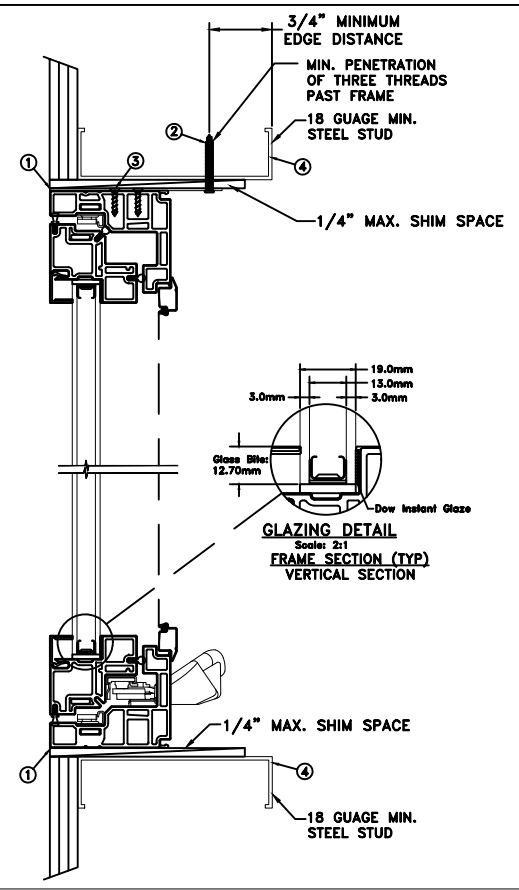
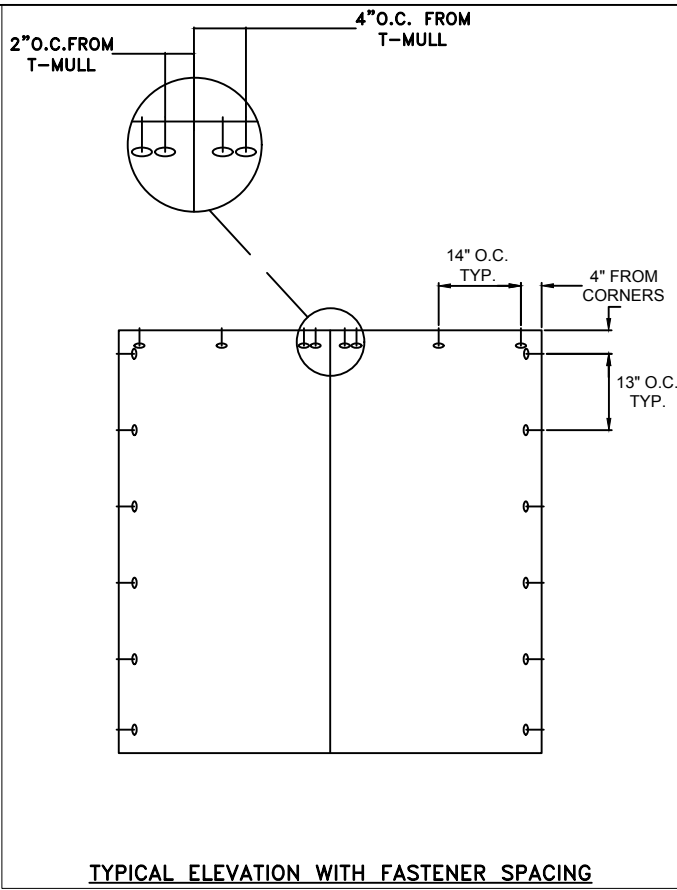
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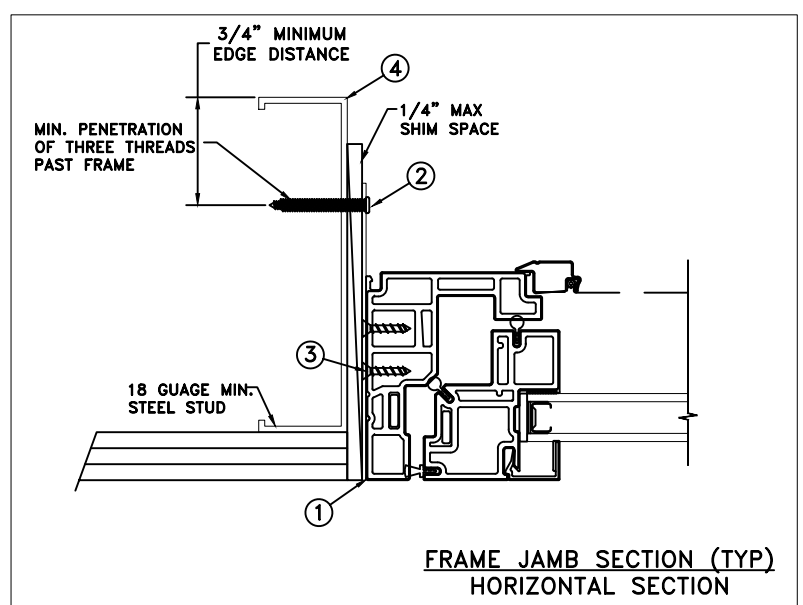
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**MASONRY STRAP  
STEEL/SCREW INSTALLATION**



<b>MAXIMUM FRAME</b>	<b>DP</b>	<b>IMPACT</b>
72" x 72"	+50/-55	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 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 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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).



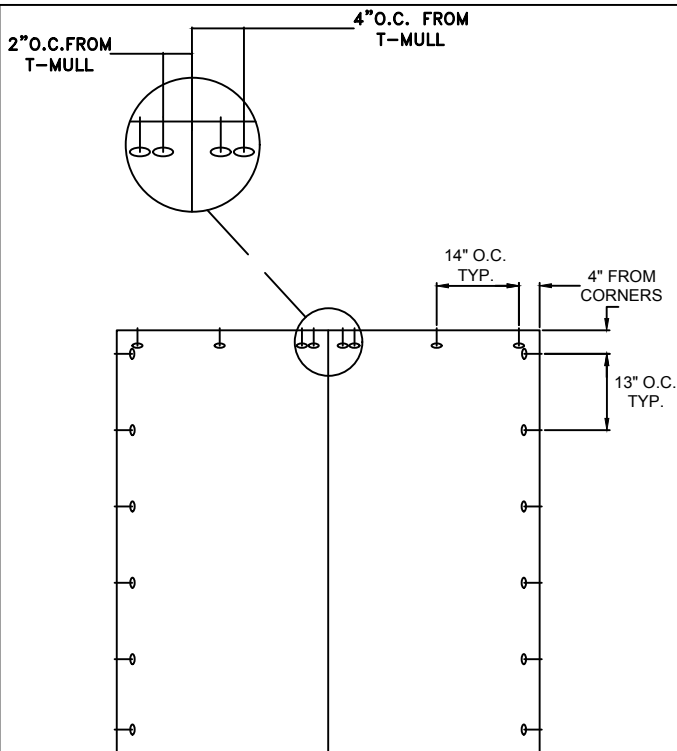
*Joseph A. Reed*

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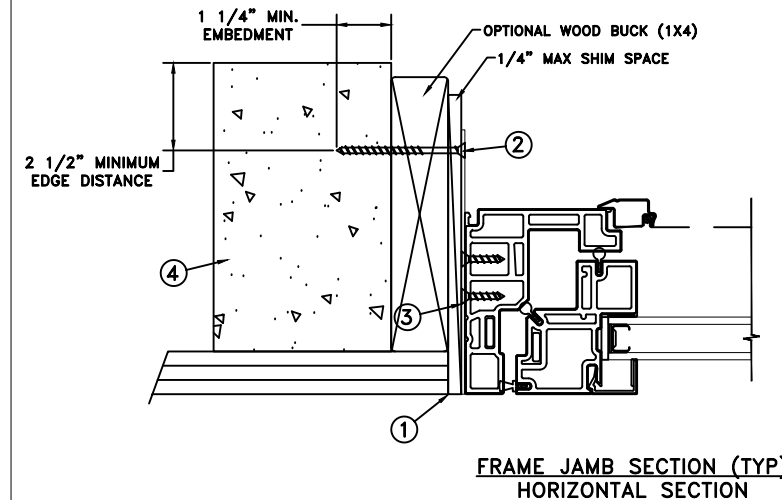
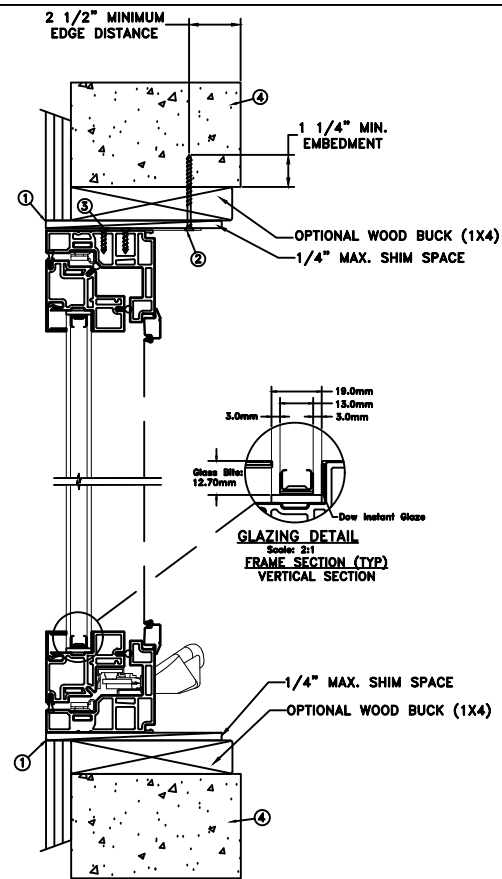
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DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: T. BROOKS	
CHECKED BY: D. BELAU	TITLE: <b>Auraline Composite Two Wide Casement</b>
APPROVED BY: J. KANTOLA	
RECORD No.: D015677	CAD DWG. No.: ---
REPORT No.: NCTL-310-20-036	REV: <b>A</b> SHEET <b>9 of 10</b>

# MASONRY STRAP CONCRETE SCREW INSTALLATION



**TYPICAL ELEVATION WITH FASTENER SPACING**



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

<b>MAXIMUM FRAME</b>	<b>DP</b>	<b>IMPACT</b>
72" x 72"	+50/-55	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 2 - 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 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 2018 International Residential Code (IRC) and 2018 International Building Code (IBC).
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing is 3.0 mm annealed - 13.0 mm airspace - 3.0 annealed glass.
4. Use structural or composite shims where required.

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](http://www.jeld-wen.com).



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DATE: 04/30/2020	<b>JELD-WEN</b> 3737 LAKEPORT BLVD. KLAMATH FALLS OR, 97601 PHONE: (800) 535-3936
DRAWN BY: T. BROOKS	
CHECKED BY: D. BELAU	SCALE: NTS
APPROVED BY: J. KANTOLA	TITLE: <b>Auraline Composite Two Wide Casement</b>
REPORT No.: NCTL-310-20-036	RECORD No.: D015677
CAD DWG. No.: ---	REVISION: A SHEET 10 of 10

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