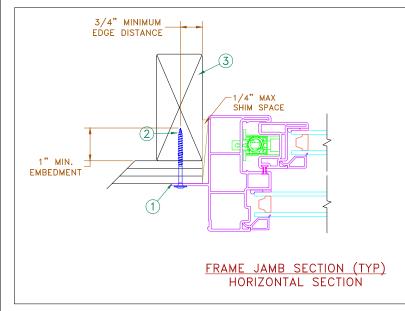
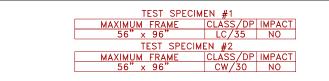
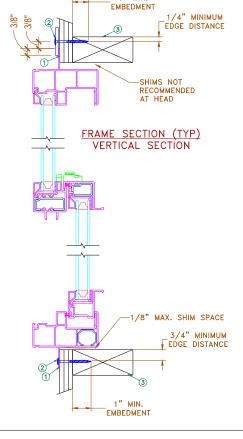
### NAILFIN/SCREW-WOOD INSTALLATION





## 4" -6" TYP A" MAX SPAN A" -6" TYP PRODUCT WIDTH



PE No. 93573 5134 Cambridge Ct. Klamath Falls, OR. 97603 (541) 363-8075 1" MIN.

### **Installation Notes:**

 Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.

TYPICAL ELEVATION WITH FASTENER SPACING

- 2. Head fastener size is minimum #8 pan head / truss head and must be fastened, beginning 4" 6" from welded corners, then every 4" O.C. using fender washers lapped over nailing flange a minimum of 3/8", leaving a minimum of 3/8" gap between shaft of fastener and edge of nailing flange. Jamb and Sill fastener size is minimum #8 pan head / truss head and must be fastened, beginning 4"-6" from welded corners, then every hole and must penetrate structural framing a minimum of 1" in depth. (For 2X wood frame substrate, MIN S.G. = 0.42)
- 3. Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of the project of installation

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:

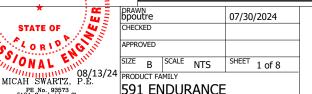
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### **General Notes:**

- 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.
- All glazing shall conform to ASTM E1300.
- 3. At minimum, glazing shall be 3mm annealed 13mm airspace 3mm annealed glass.
- 4. Use structural or composite shims where required.

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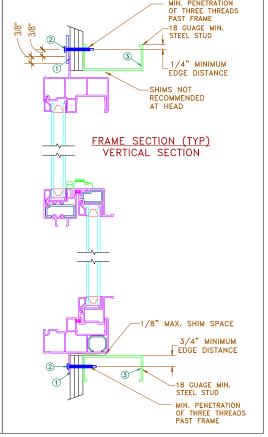
DRAWING ID NO.

40-1



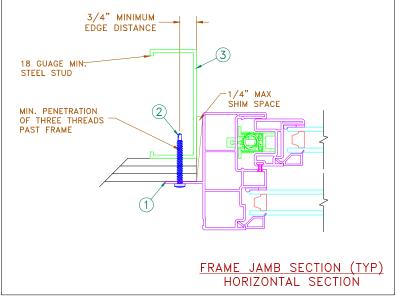
SHEET NAILFIN / SCREW - WOOD INSTALLATION

# TYPICAL ELEVATION WITH FASTENER SPACING



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

### NAILFIN/SCREW-STEEL INSTALLATION



MAXIMUM FRAME CLASS/DP IMPACT 56" x 96" LC/35 NO TEST SPECIMEN #2 MAXIMUM FRAME CLASS/DP IMPACT	TEST SPECIM	4FN #1	
TEST SPECIMEN #2  MAXIMUM FRAME   CLASS/DP IMPACT	MAXIMUM FRAME		IMPACT
MAXIMUM FRAME   CLASS/DP   IMPACT	56" x 96"	LC/35	NO
	TEST SPECIM	IEN #2	
	MAXIMUM FRAME	CLASS/DP	IMPACT
56" x 96"   CW/30   NO	56" × 96"	CW/30	NO

### **Installation Notes:**

- Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.
- 2. Head fastener size is minimum #10 TEK Screw and must be fastened, beginning 4" 6" from welded corners, then every 4" O.C. using fender washers lapped over nailing flange a minimum of 3/8", leaving a minimum of 3/8" gap between shaft of fastener and edge of nailing flange. Jamb and Sill fastener size is minimum #10 TEK Screw and must be fastened, beginning 4"-6" from welded corners, then every hole and must penetrate structural framing a minimum of 3 threads past framing MIN Fy = 33 KSI.
- Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of the record for the project of installation

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.

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  Florida Building Code (FBC) and the industry requirement for the stated conditions.
- All glazing shall conform to ASTM E1300.
- 3. At minimum, glazing shall be 3mm annealed 13mm airspace 3mm annealed glass.
- 4. Use structural or composite shims where required.

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591 ENDURANCE

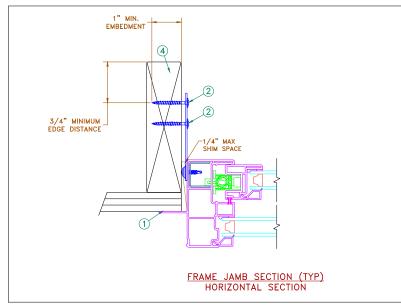
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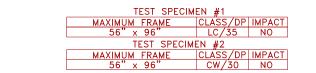
40-2



SHEET
NAILFIN / SCREW - STEEL INSTALLATION

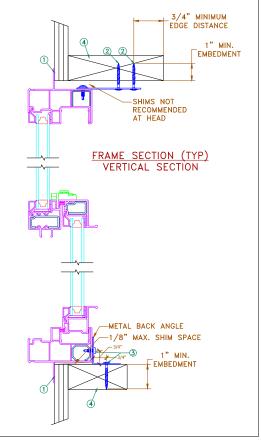
### MASONRY STRAP WOOD/SCREW INSTALLATION





### 12" <sup>!</sup> ODUCT HEIGHT 6" TYP PRODUCT WIDTH

TYPICAL ELEVATION WITH FASTENER SPACING



### Installation Notes:

- Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.
- Head and Jamb must be fastened through anchor strap using (QTY 2) #10 Fasteners with sufficient length to penetrate a Min. 1" into wood substrate. (For 2x wood frame substrate. Min. S.G. = 0.42).
- Sill fastener size @ back angle to wood framing is #8 @ 4" O.C. Fastener size for sill @ back angle to window is 10-16 TEK Screw @ 4" O.C.
- Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of the record for the project of installation

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

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### **General Notes:**

- 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.
- Nail flange is optional, and used for a weather seal only.
- All glazing shall conform to ASTM E1300.
- 4. At minimum, glazing shall be 3mm annealed - 13mm airspace - 3mm annealed glass.
- Use structural or composite shims where required.
- 6. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.\
- 7. Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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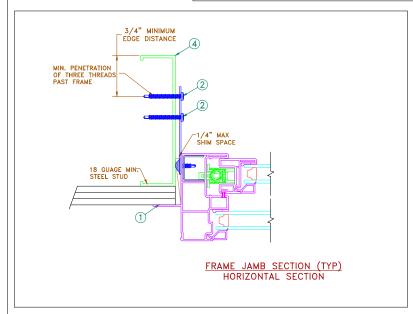


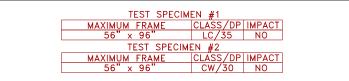
### 591 ENDURANCE

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

DRAWING ID NO. 40-3 MASONRY STRAP WOOD/SCREW INSTALLATION

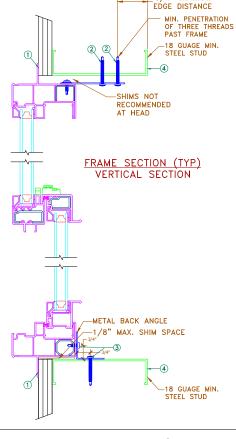
### MASONRY STRAP STEEL/SCREW INSTALLATION





### RODUCT HEIGHT PRODUCT WIDTH

TYPICAL ELEVATION WITH FASTENER SPACING



### Installation Notes:

- Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.
- Head and Jamb must be fastened through anchor strap using (QTY 2) #10 TEK Screws MIN. Fy = 33 KSI
- Sill fastener size @ back angle to steel framing is 10-16 TEK Screw @ 4" O.C., Fasteners must penetrate structural framing a minimum of 3 threads past framing. Fastener size for sill @ back angle to window is #8 x 1/2"(MAX.) @ 4" O.C.
- Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of the record for the project of installation

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

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### **General Notes:**

3/4" MINIMUM

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- Nail flange is optional, and used for a weather seal only.
- All glazing shall conform to ASTM E1300.
- 4. At minimum, glazing shall be 3mm annealed - 13mm airspace - 3mm annealed glass.
- 5. Use structural or composite shims where required.
- Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- 7. Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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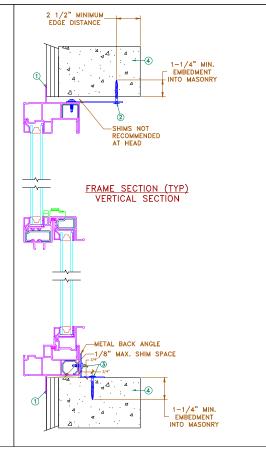
### 591 ENDURANCE

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

DRAWING ID NO. 40-4 MASONRY STRAP STEEL/SCREW INSTALLATION

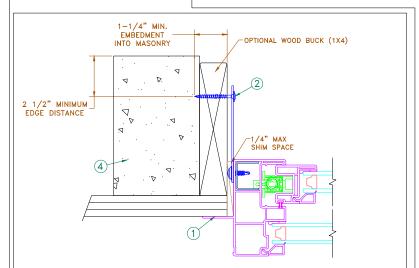
## 6° TYP 12° TYP 12° TYP 12° TYP 12° TYP 12° TYP 12° TYP

TYPICAL ELEVATION WITH FASTENER SPACING



No 93573

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



MASONRY STRAP CONCRETE SCREW INSTALLATION

FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

TEST SPECIMI			
MAXIMUM FRAME	CLASS/DP	IMPACT	
56" x 96"	LC/35	NO	
TEST SPECIME	EN #2		
MAXIMUM FRAME	CLASS/DP	IMPACT	
56" x 96"	CW/30	NO	

### Installation Notes:

- Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk
- Head and Jamb must be fastened through anchor strap using one (1) 1/4"Ø Tapcon or equivalent fastener through masonry strap with sufficient length to penetrate a minimum of 1-1/4" into masonry substrate with a 2-1/2" minimum edge distance. CMU shall adhere to ASTM C90 and concrete shalll have a min. F'c=3,000 PSI.
- 3. Sill fastener to be 3/16" Tapcon @ 4" O.C. through back angle with sufficient length to penetrate 1-1/4" into masonry substrate with a 2-1/2" min. edge distance. CMU shall adhere to ASTM C90 and concrete shall have a Min. F'c-3,000 PSI. Fastener size for sill @ back angle to window is 10-16 x 1/2" (MAX.) TEK Screw @ 4" O.C.

4. Structural framing (wood buck, stud framing and opening) to be designed and anchord source perly transfer all loads to structure. The host structure is the responsibility of the architect or a fifther of the project of installation

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:

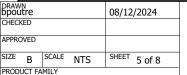
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- All glazing shall conform to ASTM E1300.
- 4. At minimum, glazing shall be 3mm annealed 13mm airspace 3mm annealed glass.
- 5. Use structural or composite shims where required.
- 6. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- 7. Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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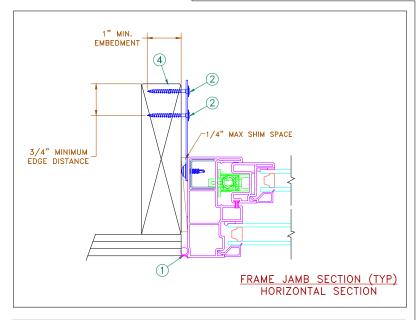


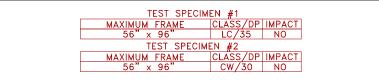
### MICAH SWARTZ, P.E. PRODUCT FAMILY 591 ENDURANCE

DRAWING ID NO. SHEET

40-5 MASONRY STRAP CONCRETE SCREW INSTALLATION

### NO FLANGE/MASONRY STRAP WOOD/SCREW INSTALLATION





## 6° TYP 12° TYP 12° TYP 12° TYP 12° TYP 12° TYP 12° TYP

### TYPICAL ELEVATION WITH FASTENER SPACING

### Installation Notes:

- Seal exterior frame to substrate using backer rod plus sealant. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.
- 2. Head and Jamb must be fastened through anchor strap using (QTY 2) #10 fasteners with sufficient length to penetrate a min. 1" into wood substrate. (For 2x wood frame substrate, Min. S.G. 0.42).
- 3. Sill fastener size @ back angle to wood framing is #8 @ 4" O.C.. Fastener size for sill @ back angle to window is 10-16 x 1/2"(MAX.) TEK Screw @ 4" O.C.
- Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of the record for the project of installation

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3/4" MINIMUM EDGE DISTANCE

RECOMMENDED

FRAME SECTION (TYP)
VERTICAL SECTION

MAX. SHIM SPACE 1" MIN.

EMBEDMENT

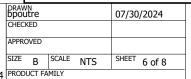
AT HEAD

\_ 1" MIN. EMBEDMENT

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- All glazing shall conform to ASTM E1300.
- 3. At minimum, glazing shall be 3mm annealed 13mm airspace 3mm annealed glass.
- Use structural or composite shims where required.
- 5. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- 6. Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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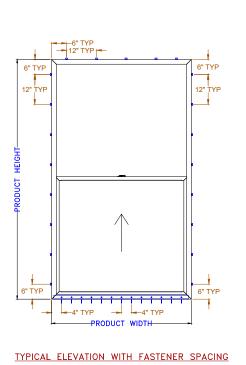
40-6

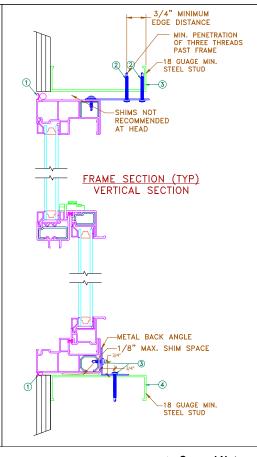
MICAH SWARTZ,

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

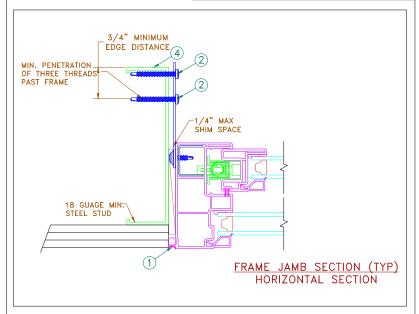
ID NO. SHEE!

NO FLANGE / MASONRY STRAP WOOD/SCREW INSTALLATION





### NO FLANGE/MASONRY STRAP STEEL/SCREW INSTALLATION



TEST SPECIMEN #1							
MAXIMUM FRAME	CLASS/DP	IMPACT					
56" × 96"	LC/35	NO					
TEST SPECIMEN #2							
MAXIMUM FRAME	CLASS/DP	IMPACT					
56" × 96"	CW/30	NO					
	•						

### Installation Notes:

- Seal exterior frame to substrate using backer rod plus sealant. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.
- Head and Jamb must be fastened through anchor strap using (QTY 2) #10 TEK Screws Min Fy = 33 KSI.
- Sill fastener size @ back angle to wood framing is 10-16 TEK Screw @ 4" O.C.. Fastener size for sill @ back angle to window is 10-16 x 1/2"(MAX.) TEK Screw @ 4" O.C.
- Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of the record for the project of installation

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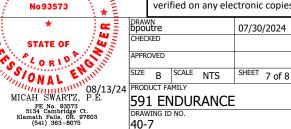
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- All glazing shall conform to ASTM E1300.
- At minimum, glazing shall be 3mm annealed 13mm airspace 3mm annealed glass.
- Use structural or composite shims where required.
- Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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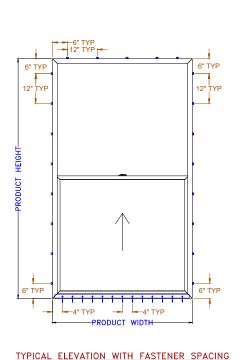


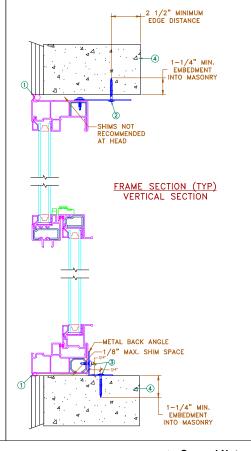
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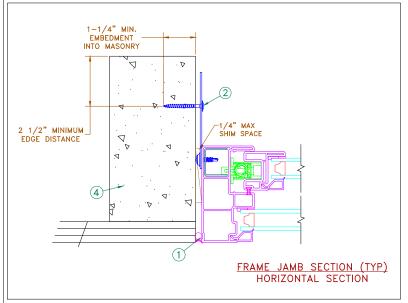


NO FLANGE / MASONRY STRAP STEEL/SCREW INSTALLATION









TEST SPECIM	EN #1					
MAXIMUM FRAME	CLASS/DP	IMPACT				
56" x 96"	LC/35	NO				
TEST SPECIMEN #2						
MAXIMUM FRAME	CLASS/DP	IMPACT				
56" × 96"	CW/30	NO				

### Installation Notes:

- Seal flange/frame to substrate. Sill shall be set on a continuous serpentine bead of structural grade silicone/caulk.
- Head and Jamb must be fastened through anchor strap using one (1) 1/4"Ø Tapcon or equivalent fastener
  through masonry strap with sufficient length to penetrate a minimum of 1-1/4" into masonry substrate with a
  2-1/2" minimum edge distance. CMU shall adhere to ASTM C90 and concrete shalll have a min. F'c=3,000
  PSI.
- Sill fastener to be 3/16" Tapcon @ 4" O.C. through back angle with sufficient length to penetrate 1-1/4" into
  masonry substrate with a 2-1/2" min. edge distance. CMU shall adhere to ASTM C90 and concrete shall
  have a Min. F'c-3,000 PSI. Fastener size for sill @ back angle to window is 10-16 x 1/2"(MAX.) TEK Screw
  @ 4" O.C.

4. Structural framing (wood buck, stud framing and opening) to be designed and anchored to properly transfer all loads to structure. The host structure is the responsibility of the architect or engineer of installation

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:

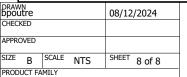
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- 4. Use structural or composite shims where required.
- 5. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- 6. Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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591 ENDURANCE

MICAH SWARTZ,

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

DRAWING ID NO.

SHEET

40-8

NO FLANGE / MASONRY STRAP CONCRETE SCREW INSTALLATION