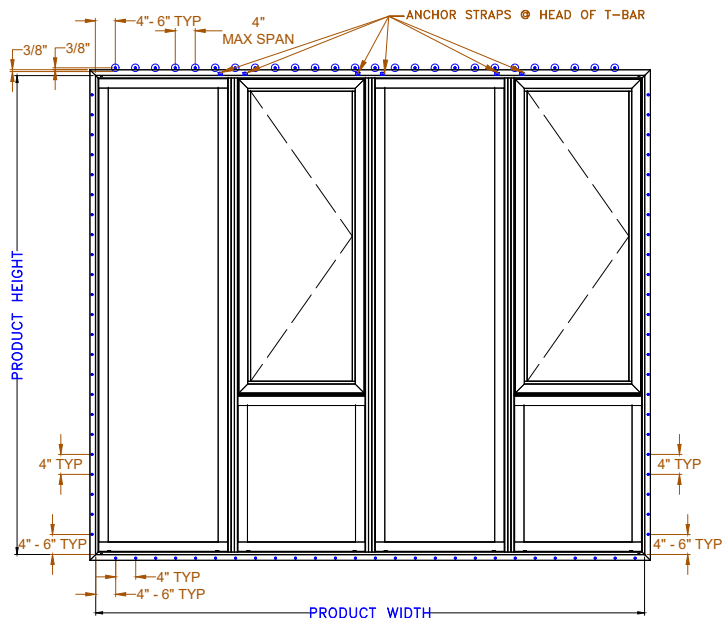
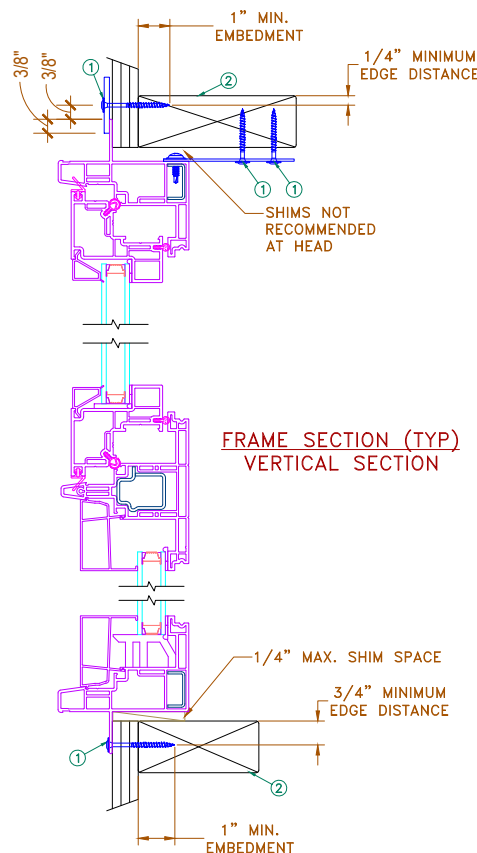
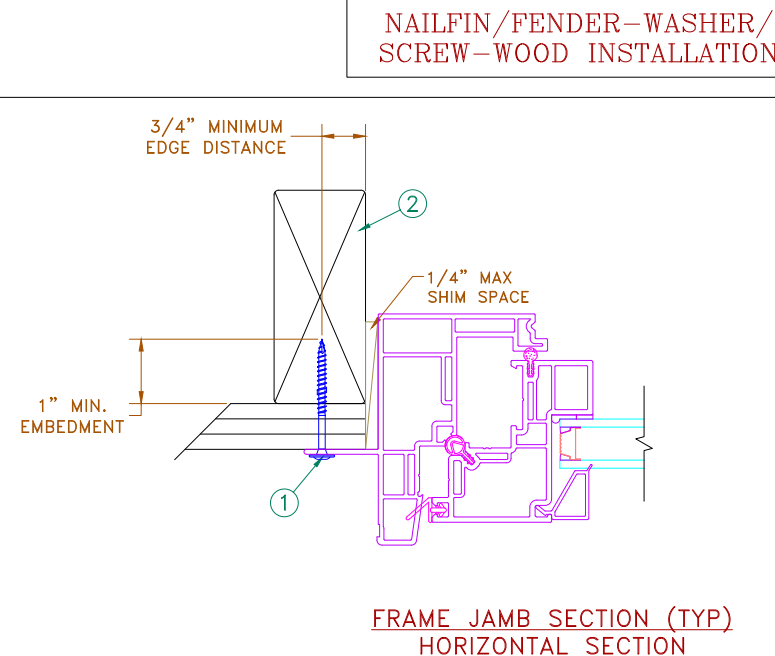




TYPICAL ELEVATION WITH FASTENER SPACING
EXTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

1. 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. Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #8 Fasteners with sufficient length to penetrate a Min. 1" into wood substrate. 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)
2. 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

General Notes:

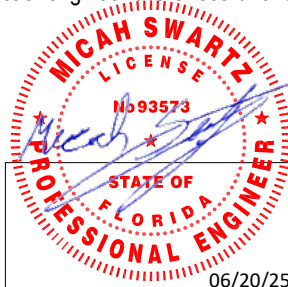
1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be 3mm annealed - 13mm airspace - 3mm annealed glass.
4. Use structural or composite shims where required.
5. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.

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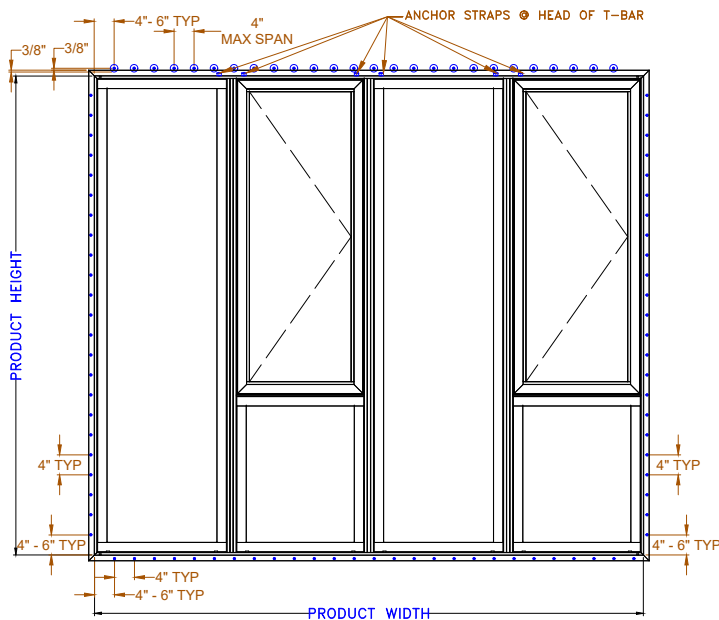
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SHEET	1 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-1	



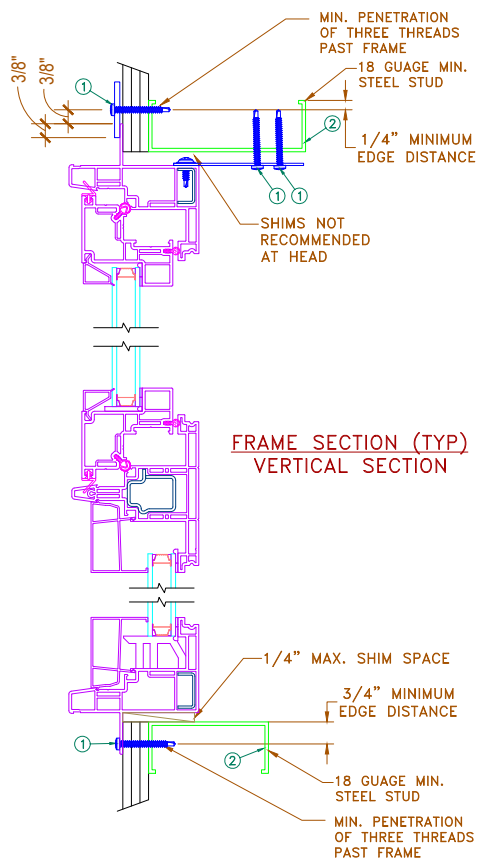
Quality Windows

SHEET
NAILFIN / FENDER-WASHER / SCREW - WOOD INSTALLATION

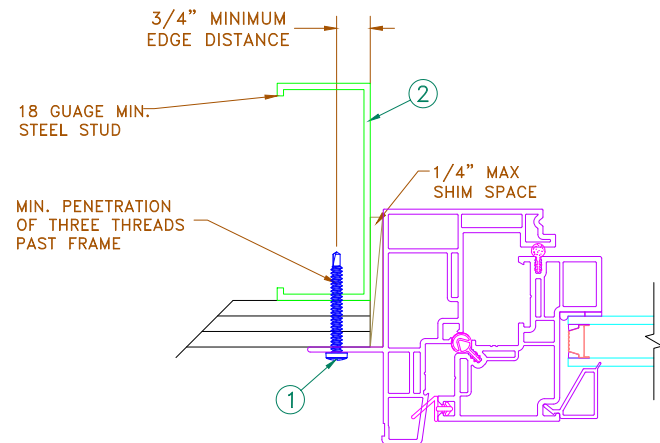
REV
A



TYPICAL ELEVATION WITH FASTENER SPACING
EXTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

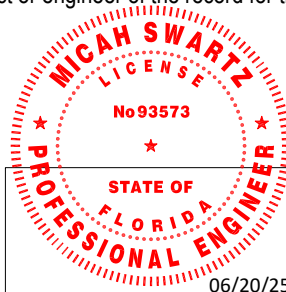
Installation Notes:

1. 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. Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #10 TEK Fasteners with sufficient length to penetrate a Min. of 3 threads past framing. 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.
2. 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. At minimum, glazing shall be 3mm annealed - 13mm airspace - 3mm annealed glass.
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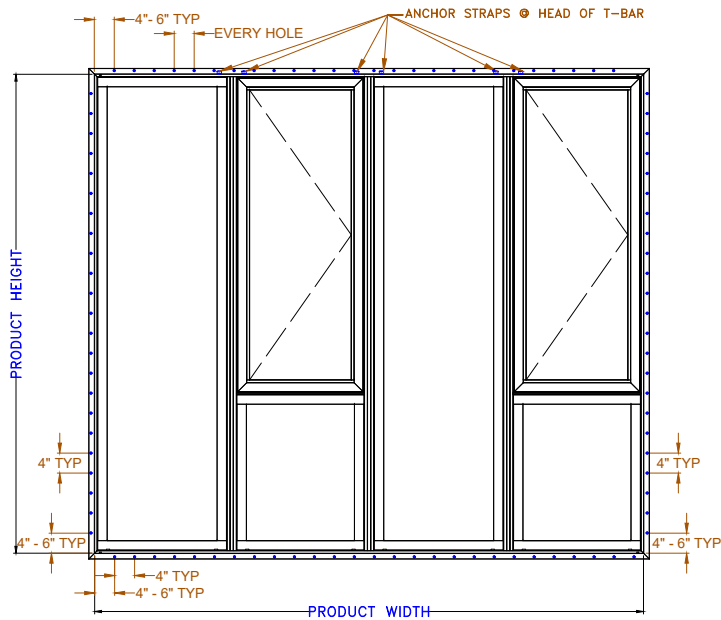
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SIZE	B	SCALE NTS
SHEET	2 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-2	



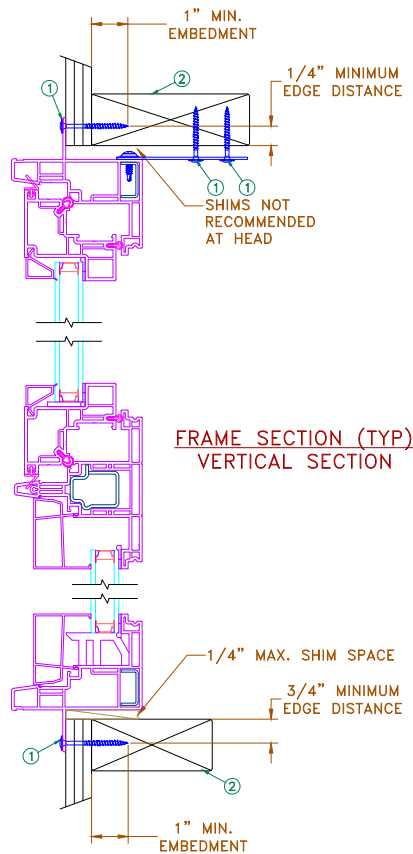
Quality Windows

SHEET
NAILFIN / FENDER-WASHER / SCREW - STEEL INSTALLATION

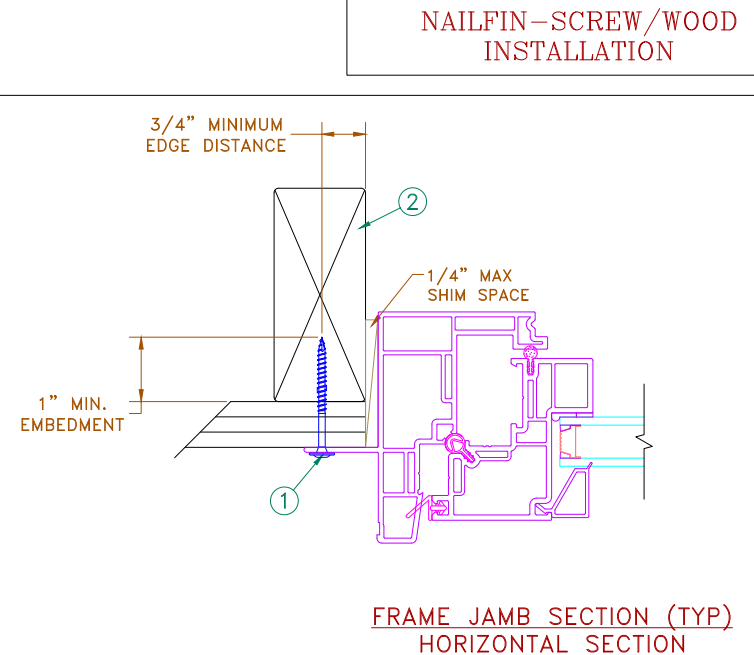
REV
A



TYPICAL ELEVATION WITH FASTENER SPACING
EXTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

1. Perimeter 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. Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #8 Fasteners with sufficient length to penetrate a Min. 1" into wood substrate. (For 2X wood frame substrate, MIN S.G. = 0.42)
2. 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

General Notes:

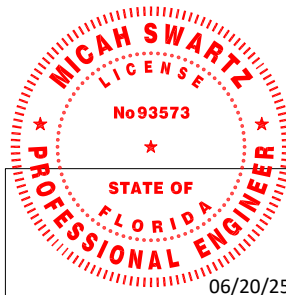
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4. Use structural or composite shims where required.
5. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.

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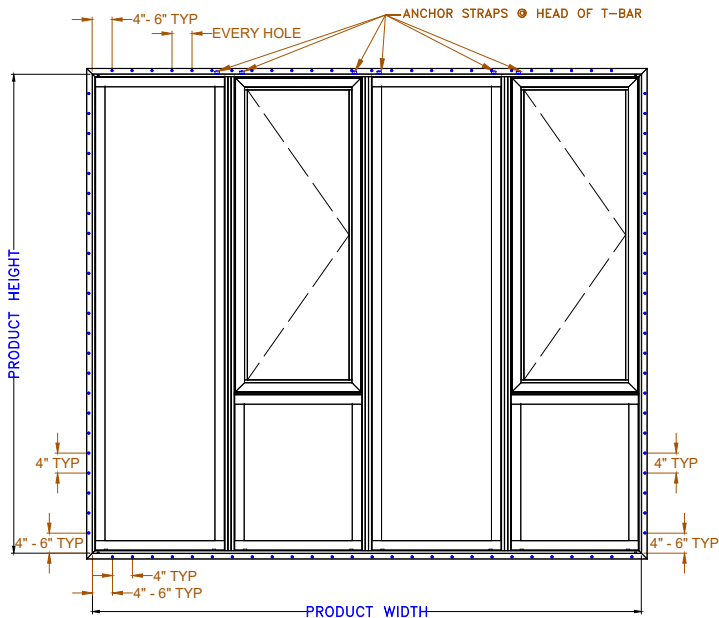
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SHEET	3 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-3	



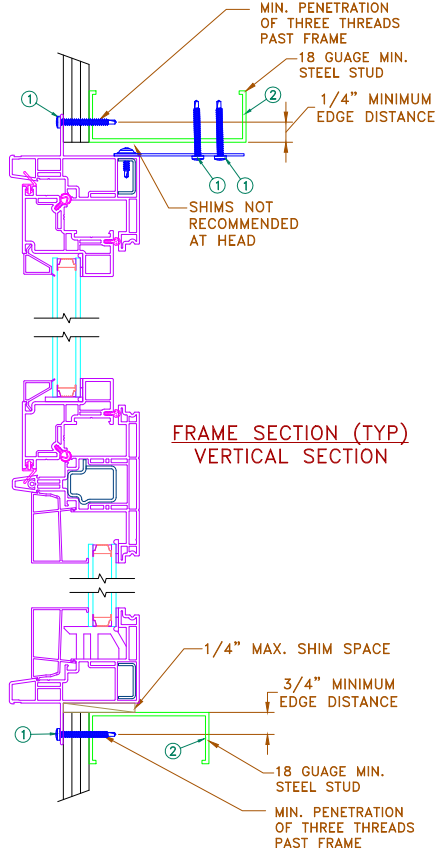
Quality Windows

SHEET
NAILFIN / SCREW - WOOD INSTALLATION

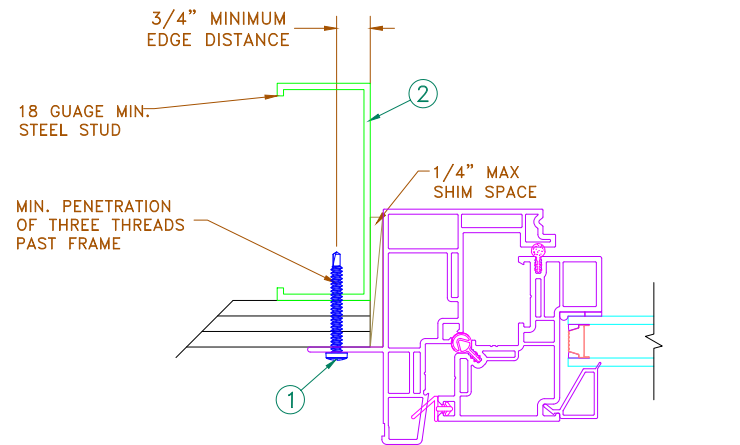
REV
A



TYPICAL ELEVATION WITH FASTENER SPACING
EXTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

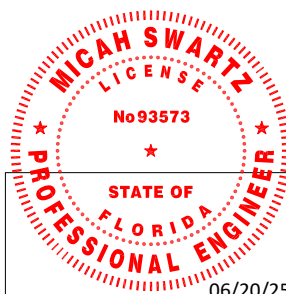
Installation Notes:

1. Perimeter 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. Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #10 TEK Fasteners with sufficient length to penetrate a Min. of 3 threads past framing MIN Fy = 33 KSI.
2. 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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4. Use structural or composite shims where required.
5. Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.

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CHECKED		
APPROVED		
SIZE	B	SCALE NTS
SHEET	4 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-4	

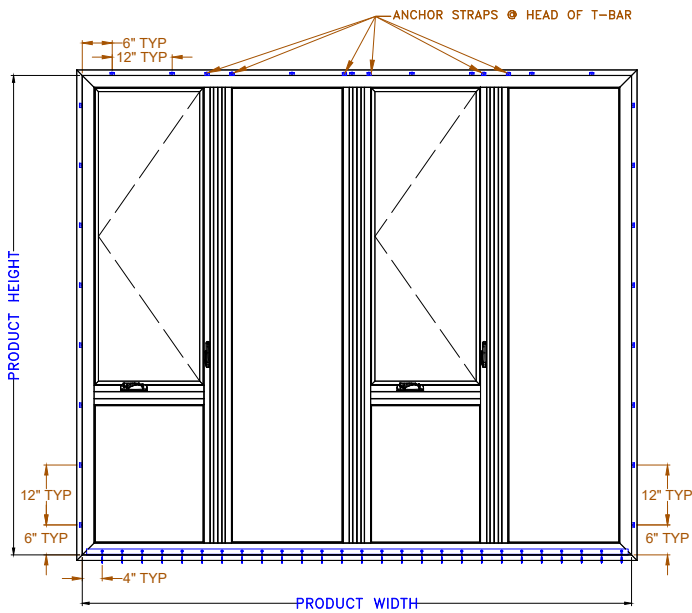


Quality Windows

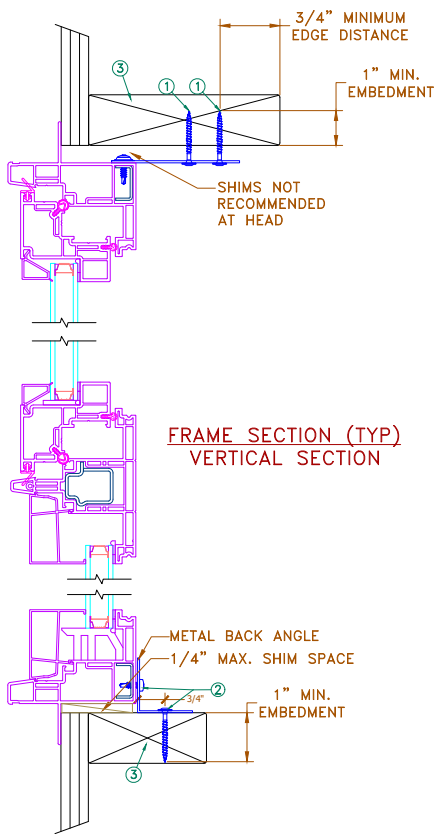
SHEET
NAILFIN / SCREW - STEEL INSTALLATION

REV
A

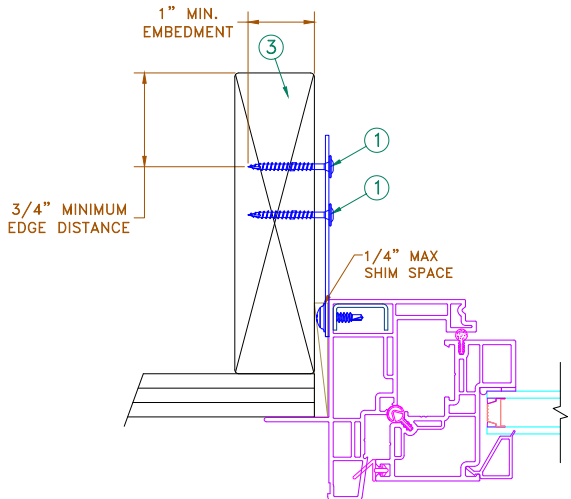
MASONRY STRAP-SCREW/
WOOD INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING
INTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

1. 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). Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #10 Fasteners with sufficient length to penetrate a Min. 1" into wood substrate.
2. 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.
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 record for the project of installation

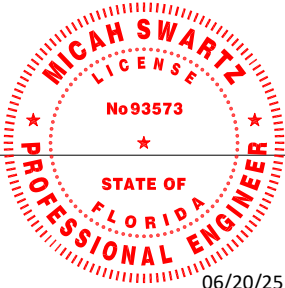
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1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
2. Nail flange is optional, and used for a weather seal only.
3. 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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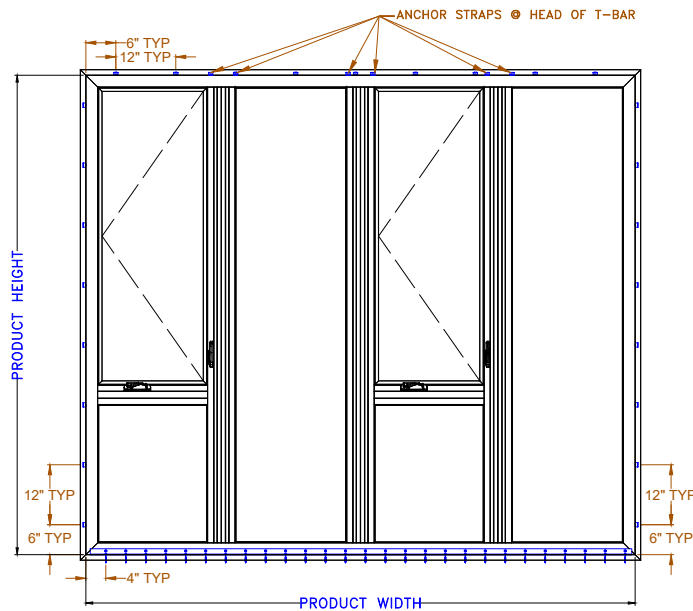


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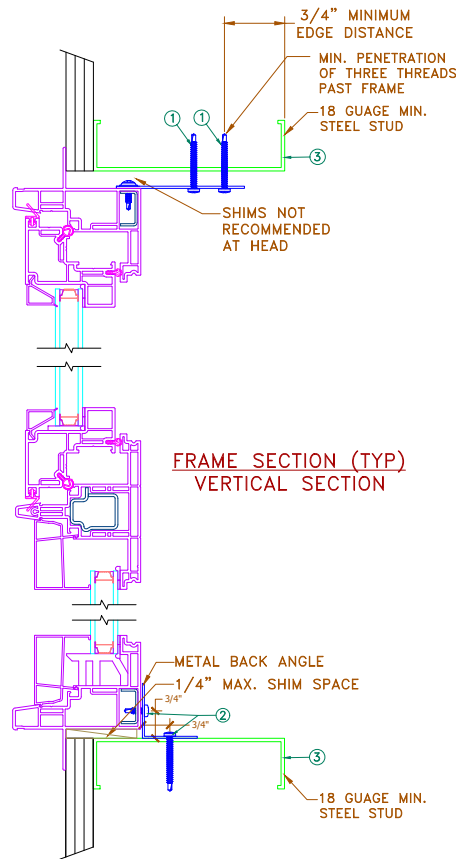
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PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-5	



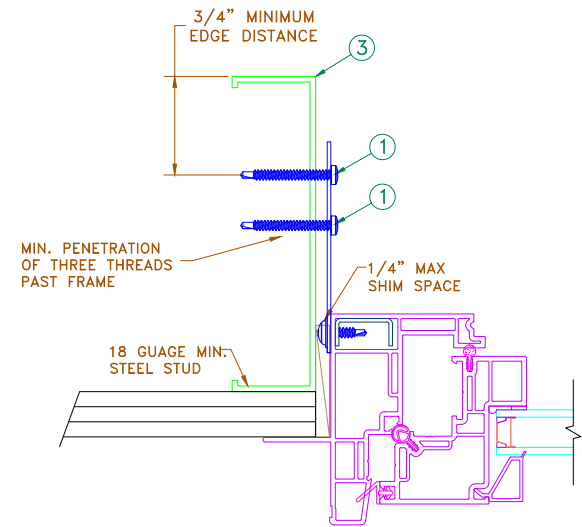
SHEET	REV
MASONRY STRAP WOOD/SCREW INSTALLATION	A



TYPICAL ELEVATION WITH FASTENER SPACING
INTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

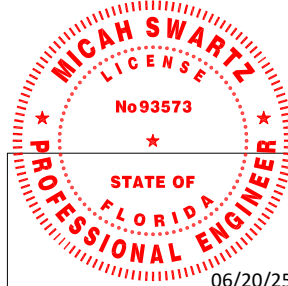
Installation Notes:

1. Head and Jamb must be fastened through anchor strap using (QTY 2) #10 TEK Screws MIN. $F_y = 33$ KSI. Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #10 TEK Fasteners with sufficient length to penetrate a Min. of 3 threads past framing.
2. 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.
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 record for the project of installation

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7. Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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DRAWN	bputre	06/18/2025
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SIZE	B	SCALE NTS
SHEET	6 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-6	

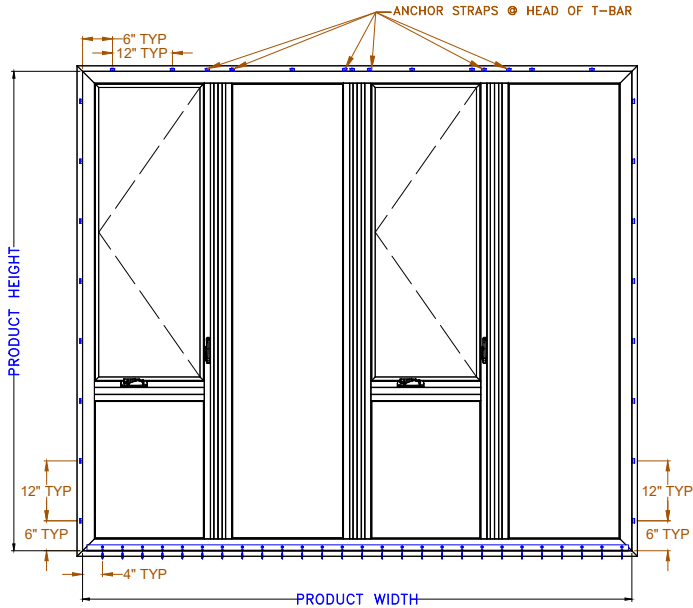


Quality Windows

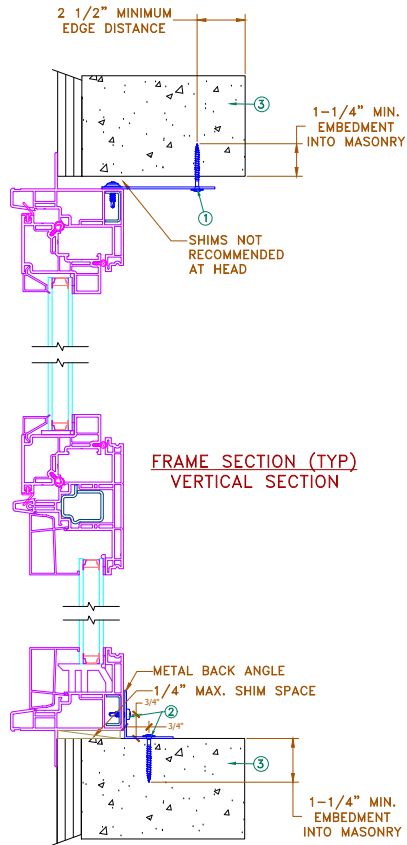
SHEET	MASONRY STRAP STEEL/SCREW INSTALLATION
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REV	A
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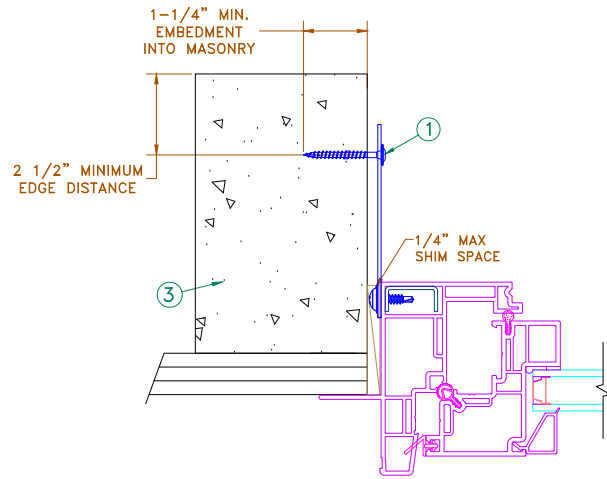
MASONRY STRAP-SCREW/
CONCRETE INSTALLATION



TYPICAL ELEVATION WITH FASTENER SPACING
INTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

- 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 shall have a min. F'c=3,000 PSI. Fasten additional anchor straps @ head of vertical mullions 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. 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.
- 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

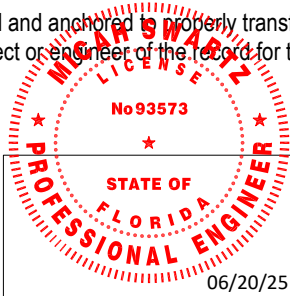
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- All glazing shall conform to ASTM E1300.
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- Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- Sill metal back angle material is either Aluminum 1/8" Min. or Steel 16 Ga. Min.

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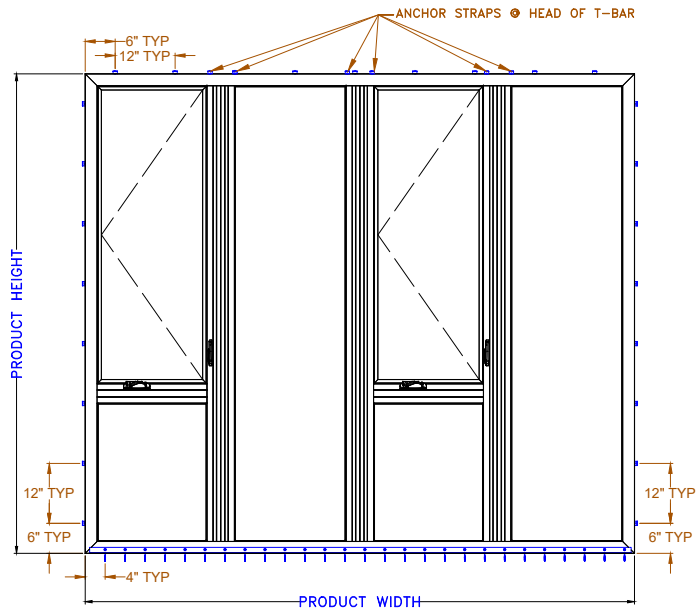


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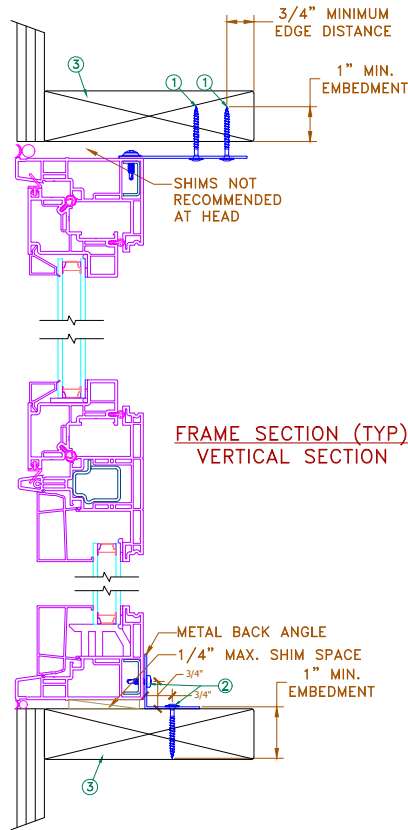
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SHEET	7	of 10
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-7	



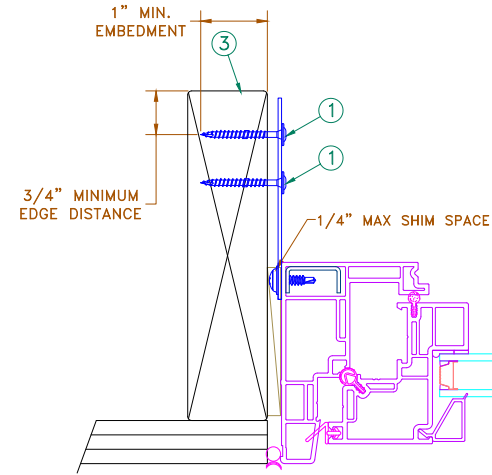
SHEET	MASONRY STRAP CONCRETE SCREW INSTALLATION	REV
		A



TYPICAL ELEVATION WITH FASTENER SPACING
INTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

NO FLANGE/MASONRY
STRAP-SCREW/WOOD
INSTALLATION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

- 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). Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #8 Fasteners with sufficient length to penetrate a Min. 1" into wood substrate.
- 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

General Notes:

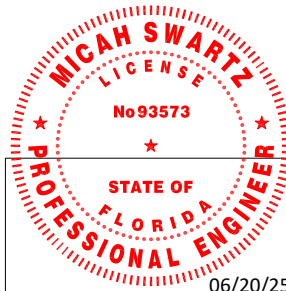
- The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code (IBC), the International Residential Code (IRC), the current Florida Building Code (FBC) and the industry requirement for the stated conditions.
- All glazing shall conform to ASTM E1300.
- 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.

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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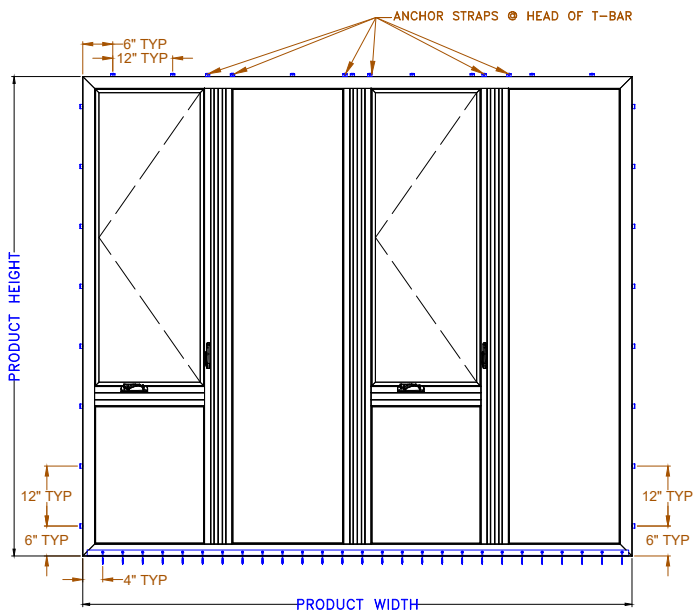


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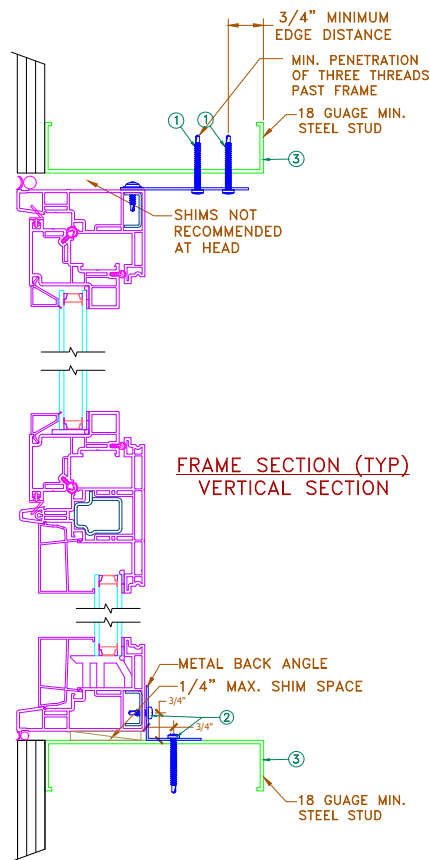
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CHECKED		
APPROVED		
SIZE	B	SCALE NTS
SHEET	8 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-8	



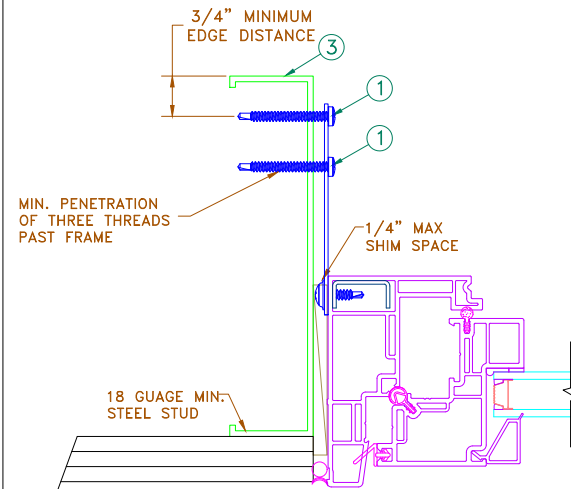
SHEET	REV
NO FLANGE / MASONRY STRAP WOOD/SCREW INSTALLATION	A



TYPICAL ELEVATION WITH FASTENER SPACING
INTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

NO FLANGE/MASONRY
STRAP-SCREW/STEEL
INSTALLATION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

- Head and Jamb must be fastened through anchor strap using (QTY 2) #10 TEK Screws Min Fy = 33 KSI. Fasten additional anchor straps @ head of vertical mullions using (QTY 2) #10 TEK Fasteners with sufficient length to penetrate a Min. of 3 threads past framing.
- 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

General Notes:

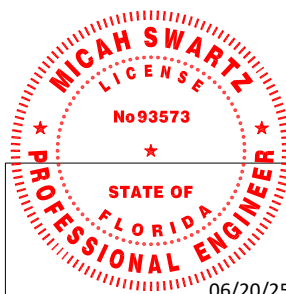
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- At minimum, glazing shall be 3mm annealed - 13mm airspace - 3mm annealed glass.
- Use structural or composite shims where required.
- Anchor strap specifications: 16 Ga. galvanized steel, .060 min. thickness x .850" width.
- Sill metal back angle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

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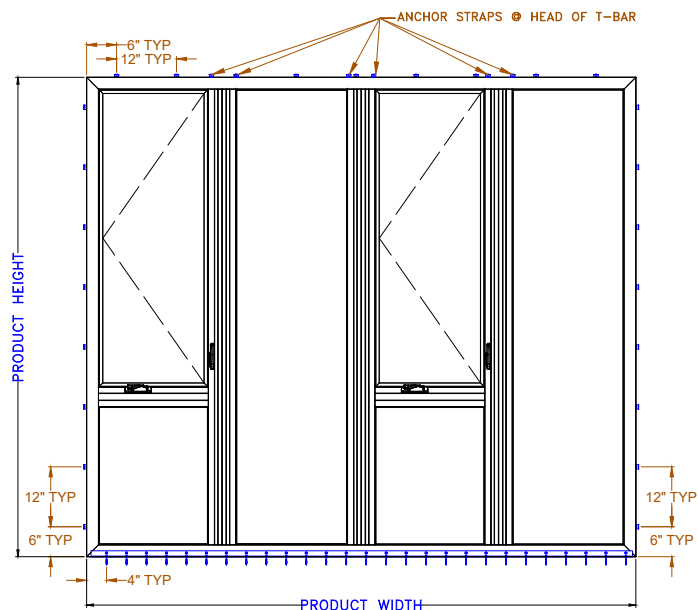
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SIZE	B	SCALE NTS
SHEET	9 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-9	

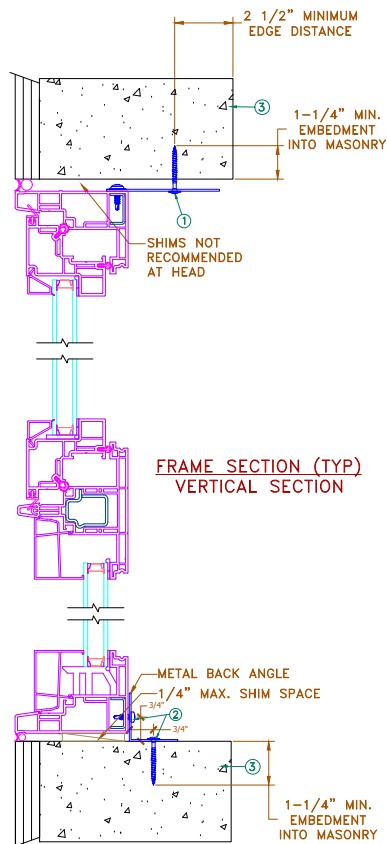


SHEET
NO FLANGE / MASONRY STRAP STEEL/SCREW INSTALLATION

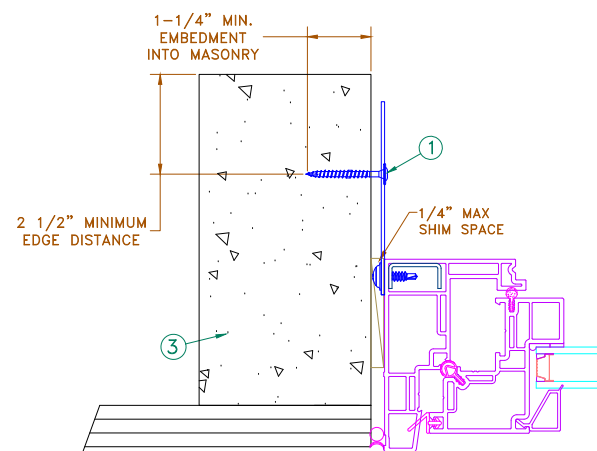
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TYPICAL ELEVATION WITH FASTENER SPACING
INTERIOR VIEW



FRAME SECTION (TYP)
VERTICAL SECTION



FRAME JAMB SECTION (TYP)
HORIZONTAL SECTION

NO FLANGE/MASONRY
STRAP-SCREW/CONCRETE
INSTALLATION

MAXIMUM FRAME	CLASS/DP	IMPACT
144" x 96"	CW/35	NO

Installation Notes:

- 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 shall have a min. F'c=3,000 PSI. Fasten additional anchor straps @ head of vertical mullions 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.
- 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.
- 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 record for the project of installation

General Notes:

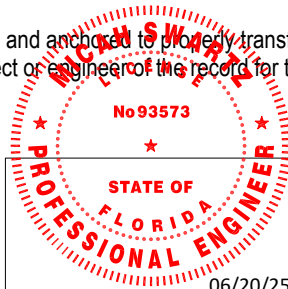
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APPROVED		
SIZE	B	SCALE NTS
SHEET	10 of 10	
PRODUCT FAMILY	511 ENDURANCE	
DRAWING ID NO.	346-10	



Quality Windows

SHEET	NO FLANGE / MASONRY STRAP CONCRETE SCREW INSTALLATION
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REV	A
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