

PRODUCT APPROVAL SUPPORTING CALCULATIONS

Series/Model 3010i-A4 Awning Window

REPORT No.: 30351.01-106-11

RENDERED TO: St Cloud Window
390 Industrial Blvd
Sauk Rapids, MN 56379

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REPORT DATE: 3/11/2025

This item has been digitally signed and sealed
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adjacent to the seal.

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A handwritten signature in black ink, appearing to read "Michael D. Stremmel".

Michael D. Stremmel, P.E.
Director – Engineering/Testing
FL PE 65868
FL REG 37122

It is a violation to alter this document in any way unless acting under the direction of a licensed professional engineer.

SCOPE:

Molimo, LLC was contracted by St Cloud Window to evaluate alternate installation methods for their 3010i-A4 Awning window. The evaluation is based on physical testing and product certifications.

Reference standards utilized in this project include:

Florida Building Code, Building, 8th Edition (2023). International Code Council, 2023.

ANSI/AWCNDS-2018 National Design Specification (NDS) for Wood Construction. American Wood Council, 2018.

AISI S100-16 North American Specification for the Design of Cold-Formed Steel Structural Members, 2016. American Iron and Steel Institute, 2016.

ADM-2020, Aluminum Design Manual. The Aluminum Association, Inc. 2020.

ICC-ES Report ESR-1976 ITW Buildex TEKS Self-Drilling Fasteners. ICC Evaluation Service. 07/2016.

NOA 24-0102.06 *Tapcon Concrete and Masonry Anchors with Advanced Threadform Technology.* Miami-Dade County Product Control Section. 08/31/2026.

The anchorage analysis presented herein do not address the water resistance, water penetration, or air infiltration performance of the installation method or the installed product. In addition, the analyses rely on the assumption that the building substrate is capable of withstanding the incurred loads.

Certification of Independence

In accordance with Rule 61G20-3 Florida Administrative Code, Molimo, LLC hereby certifies the following:

- Molimo, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested or labeled by the agency.
- Molimo, LLC is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.
- Michael D. Stremmel, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.
- Michael D. Stremmel, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

ANALYSES:**Summary of Test Results**

Table 1 summarizes the various 3010i-A4 Awning Window products and their corresponding performance levels which have been established by testing for product certification.

The products considered in this report satisfy the requirements of the *Florida Building Code, Building 8th Edition (2023)* for the overall sizes and design pressures of the following product certifications and their installation methods presented in this report.

Table 1: Summary of Product Testing and Limitations of Use

Series/Model	Test Report Number	Size (W x H)	Performance
3010i-A4 Awning Window	QCT24-7455.01 (Rev. 0, 2/7/2025)	120" x 40" (2-wide) 60" x 40" (Single)	±70 psf Large Missile (Wind Zone 4)

Testing documented in Table 1 was conducted by Quast Consulting and Testing, Inc. (Florida Department of Business & Professional Regulation Test Lab No. TST8039).

ANALYSES: (Continued)**As-Tested Installation Analysis**

For air/water/structural and hurricane impact testing, the test specimen was secured to a pine wood test buck with #10 wood screws. The rough opening allowed for a 1/4" shim space. The as tested installation methods are evaluated on Pages 8 through 11 and the established design capacities are summarized in Table 2.

Table 2: As-tested Anchorage Design Capacities

Test Specimen Installation Method	Connection Details	Capacity
Head and Jamb Installation Detail	#10 x 2-1/2" Wood Screw through the frame Located 8" from each corner, 8" on each side of midspan, and spaced 14-5/8" on center thereafter	121 lb
Sill Installation Detail	#10 x 2" FH Wood Screw through aluminum clips Located 8" from each corner and 14-5/8" on center thereafter	121 lb

The capacities presented in Table 2 will be used to prove acceptable alternate anchors and substrates for the windows.

ANALYSES: (Continued)

Calculations on Pages 12 through 17 determine the design capacity of alternate through-frame installation anchorages for the window. The alternate anchorage capacities are summarized in Table 4 and 5.

Table 4: Alternate Anchorage Capacities for Through-frame Installations (Head and Jambs)

Substrate	Anchor	Capacity	Comments
18 Ga. Steel Stud	#12-14 TEKS Screw	182 lb	1. 33 KSI yield strength stud 2. Full penetration +3 threads 3. Limited by bending capacity
Concrete	1/4" Tapcon	232 lb	1. Minimum $f'_c = 3,000$ psi 2. 1-1/2" min. embedment 3. 1-1/2" min. edge distance 4. Limited by frame bearing capacity 5. Maximum 1x buck strip
CMU Block	1/4" Tapcon	161 lb	1. Minimum ASTM C90 CMU Block 2. 1" min. embedment 3. 4" min. edge distance 4. Limited by anchor shear capacity 5. Maximum 1x buck strip

Table 5: Alternate Anchorage Capacities for Sill Clip Installations

Substrate	Anchor	Capacity	Comments
18 Ga. Steel Stud	#12-14 TEKS Screw	182 lb	1. 33 KSI yield strength stud 2. Full penetration +3 threads 3. Limited by bending capacity
Concrete	1/4" Tapcon	232 lb	1. Minimum $f'_c = 3,000$ psi 2. 1-1/2" min. embedment 3. 1-1/2" min. edge distance 4. Limited by frame bearing capacity 5. Maximum 1x buck strip

ANALYSES: (Continued)

Anchorage Requirements

It must be determined the anchorages are not overloaded for the approved window size and design pressures. Calculations presented on Page 18 shows the following:

Based on the calculations, Table 5 shows the maximum anchor spacing for each installation method. The anchor spacings shown in the following table apply to all substrates and anchor types.

Table 5: Anchorage Spacing Requirements (2-wide Awning)

Installation Method	Maximum Anchor Spacing
Through-Frame (Head only)	Located 8" from each corner, 4" and 8" on each side of the vertical mullion, and spaced 14-5/8" on center thereafter, through the frame into the building substrate
Through-Frame (Sill only)	Located 8" from each corner 4" and 8" on each side of the vertical mullion, and spaced 14-5/8" on center thereafter, through the aluminum strap anchor into the building substrate
Through-Frame (Jambs only)	Located 5" from each corner and 15" on center, through the frame into the building substrate

Table 6: Anchorage Spacing Requirements (Single Awning)

Installation Method	Maximum Anchor Spacing
Through-Frame (Head only)	Located 8" from each corner and spaced 14-5/8" on center thereafter, through the frame into the building substrate
Through-Frame (Sill only)	Located 8" from each corner and spaced 14-5/8" on center thereafter, through the aluminum strap anchor into the building substrate
Through-Frame (Jambs only)	Located 5" from each corner and 15" on center, through the frame into the building substrate

As-Tested Installation – Through-Frame to Wood

→ Head and Jamb

Anchor: #10 x 2-1/2" Wood Screw

Details: Through the Aluminum Frame
- 0.080" thick frame at anchor location
- 1/4" max shim space

Substrate: SPF wood test buck (G = 0.42 min.)

Wood Screw Capacity (Shear)

$$Z' = \underline{156 \text{ lb}}$$

(Reference the following page)

Bearing Capacity (of aluminum frame)

$$P_B = 2 d t F_{tu} = 2 (0.190") (0.080") (22,000 \text{ psi}) = 669 \text{ lb}$$

$$P_{ALLOW} = 669 \text{ lb} / 3.0 = \underline{223 \text{ lb}}$$

Bending Capacity (of Wood Screw)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.130")^3 / 32 = 0.000216 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(90,000 \text{ psi}) = 70,200 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000216 \text{ in}^3)(70,200 \text{ psi}) / 1/4"$$

$$V = \underline{121 \text{ lb}}$$

Design Capacity of the Connection = 121 lb

Lateral Design Strength of Wood Connections

Data

Fastener

Fastener	=	#10 Wood Screw
Shank Dia	=	0.190 in.
Root Dia.	=	0.152 in.
F _{yb}	=	80,000 psi
Fastener length	=	2.500 in.

Project: 3010i-A4 2-Wide Awning
Comments: As Tested Thru Frame
 1-1/2" min embedment

Main Member

Material	=	SPF
G	=	0.42
θ	=	90
F _e	=	3,350 psi
Thickness	=	1.500 in.

Side Member

Material	=	6063 T6 Aluminum
G	=	N/A
θ	=	90
F _{es}	=	37,500 psi
Thickness	=	0.080 in.

Calculations

Lateral Bearing Factors

D	=	0.152 in.
ℓ _m	=	1.500 in.
K _θ	=	1.25
K _D	=	2.20
R _e	=	0.089
R _t	=	18.75

k ₁	=	0.6784
k ₂	=	0.5399
k ₃	=	11.02
R _d	=	2.20 (Mode I _m , I _s)
R _d	=	2.20 (Mode II)
R _d	=	2.20 (Mode III _m , III _s , IV)

Lateral Design Values, Z

Mode I _m	=	347 lbf
Mode I _s	=	207 lbf
Mode II	=	141 lbf
Mode III _m	=	159 lbf
Mode III _s	=	98 lbf
Mode IV	=	134 lbf

<== Minimum Value

Adjustment Factors

C _D	=	1.6
Wet Service Factor		
Fabrication/In-Service	=	Dry/Dry
C _M	=	1.0
In service temperature	=	T≤100°F
C _t	=	1.0
C _g	=	1.0

C _Δ	=	1.0
Is fastener installed in end grain?	=	No
C _{eg}	=	1.00
Is fastener part of a diaphragm?	=	No
C _{di}	=	1.0
Is fastener toe-nailed?	=	No
C _{tn}	=	1.00

Adjusted Design Value, Z'

Z'	=	156 lbf
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As-Tested Installation – Aluminum Strap Anchor to Wood

→ Sill

Anchor: #10 x 2" FH Wood Screw

Details: Strap Anchor (0.100" thick, 6063-T6)
- 1/4" max shim space

Substrate: SPF wood test buck (G = 0.42 min.)

Wood Screw Capacity (Shear)

$$Z' = \underline{152 \text{ lb}}$$

(Reference the following page)

Bearing Capacity (Aluminum Strap Anchor)

$$P_B = 2 d t F_{tu} = 2 (0.190") (0.100") (30,000 \text{ psi}) = 1,140 \text{ lb}$$

$$P_{ALLOW} = 1,140 \text{ lb} / 3.0 = \underline{380 \text{ lb}}$$

Bending Capacity (of Wood Screw)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.130")^3 / 32 = 0.000216 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(90,000 \text{ psi}) = 70,200 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000216 \text{ in}^3)(70,200 \text{ psi}) / 1/4"$$

$$V = \underline{121 \text{ lb}}$$

Design Capacity of the Connection = 121 lb

Lateral Design Strength of Wood Connections

Data

Fastener

Fastener	=	#10 Wood Screw
Shank Dia	=	0.190 in.
Root Dia.	=	0.152 in.
F_{yb}	=	80,000 psi
Fastener length	=	2.000 in.

Project: 3010i-A4 2-Wide Awning
Comments: As Tested Strap Anchor
 1-1/2" min embedment

Main Member

Material	=	SPF
G	=	0.42
θ	=	90
F_e	=	3,350 psi
Thickness	=	1.500 in.

Side Member

Material	=	6063 T6 Aluminum
G	=	N/A
θ	=	90
F_{es}	=	37,500 psi
Thickness	=	0.040 in.

Calculations

Lateral Bearing Factors

D	=	0.152 in.
ℓ_m	=	1.500 in.
K_θ	=	1.25
K_D	=	2.20
R_e	=	0.089
R_t	=	37.22

k_1	=	1.3440
k_2	=	0.5399
k_3	=	21.31
R_d	=	2.20 (Mode I _m , I _s)
R_d	=	2.20 (Mode II)
R_d	=	2.20 (Mode III _m , III _s , IV)

Lateral Design Values, Z

Mode I _m	=	347 lbf
Mode I _s	=	104 lbf
Mode II	=	140 lbf
Mode III _m	=	159 lbf
Mode III _s	=	95 lbf
Mode IV	=	134 lbf

<== Minimum Value

Adjustment Factors

C_D	=	1.6
Wet Service Factor		
Fabrication/In-Service		Dry/Dry
C_M	=	1.0
In service temperature		$T \leq 100^\circ\text{F}$
C_t	=	1.0
C_g	=	1.0

C_Δ	=	1.0
Is fastener installed in end grain?		No
C_{eg}	=	1.00
Is fastener part of a diaphragm?		No
C_{di}	=	1.0
Is fastener toe-nailed?		No
C_{tn}	=	1.00

Adjusted Design Value, Z

Z'	=	152 lbf
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Alternate Installation – Through-Frame to Steel Stud

→ Head and Jamb

Anchor: #12-14 TEKS Screw

Details: Through the Aluminum Frame
 - 0.080" thick frame at anchor location
 - 1/4" max shim space

Substrate: 18 ga steel stud (33 ksi, 0.043" thick)

Anchor Capacity (Shear of 1/4" TEKS)

$$P_{ss} / \Omega = \underline{724 \text{ lb}} \quad (\text{ICC ESR-1976})$$

Bearing Capacity (of aluminum frame)

$$P_B = 2 d t F_{tu} = 2 (0.216") (0.080") (22,000 \text{ psi}) = 760 \text{ lb}$$

$$P_{ALLOW} = 760 \text{ lb} / 3.0 = \underline{253 \text{ lb}}$$

Bearing/Tilting Capacity (of steel stud)

$$P_b = 2.7 D t F_{tu} = 2.7 (0.216") (0.043") (45,000 \text{ psi}) = 1,128 \text{ lb}$$

$$P_b = 4.2 (D t^3)^{1/2} F_{tu} = 4.2 [(0.216") (0.043")^3]^{1/2} (45,000 \text{ psi}) = 783 \text{ lb}$$

$$P_{allow} = 783 \text{ lb} / 3.0 = \underline{261 \text{ lb}}$$

Bending Capacity (of #12-14 TEK)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.148")^3 / 32 = 0.000318 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(92,000 \text{ psi}) = 71,760 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000318 \text{ in}^3)(71,760 \text{ psi}) / 1/4"$$

$$V = \underline{182 \text{ lb}}$$

Design Capacity of the Connection = 182 lb

Alternate Installation – Aluminum Strap Anchor to Steel Stud

→ Sill

Anchor: #1/4" TEKS Screw

Details: Strap Anchor (0.100" thick, 6063-T6)
 - 1/4" max shim space

Substrate: 18 ga steel stud (33 ksi, 0.043" thick)

Anchor Capacity (Shear of #1/4" TEKS)

$$P_{ss} / \Omega = \underline{1,075 \text{ lb}} \quad (\text{AAMA TIR-A9-14, Table 20.3})$$

Bearing Capacity (of aluminum frame)

$$P_B = 2 d t F_{tu} = 2 (0.216") (0.100") (30,000 \text{ psi}) = 1,296 \text{ lb}$$

$$P_{ALLOW} = 1,296 \text{ lb} / 3.0 = \underline{432 \text{ lb}}$$

Bearing/Tilting Capacity (of steel stud)

$$P_b = 2.7 D t F_{tu} = 2.7 (0.216") (0.043") (45,000 \text{ psi}) = 1,128 \text{ lb}$$

$$P_b = 4.2 (D t^3)^{1/2} F_{tu} = 4.2 [(0.216") (0.043")^3]^{1/2} (45,000 \text{ psi}) = 783 \text{ lb}$$

$$P_{allow} = 783 \text{ lb} / 3.0 = \underline{261 \text{ lb}}$$

Bending Capacity (of #12-14 TEK)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.148")^3 / 32 = 0.000318 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(92,000 \text{ psi}) = 71,760 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000318 \text{ in}^3)(71,760 \text{ psi}) / 1/4"$$

$$V = \underline{182 \text{ lb}}$$

Design Capacity of the Connection = 182 lb

Alternate Installation – Through-Frame to Concrete

→ Head and Jamb

Anchor: 1/4" Tapcon Anchor
 - 1-1/2" min embedment
 - 1-1/2" min edge distance
 - 4" min anchor spacing

Details: Through the Aluminum Frame
 - 0.080" thick frame at anchor location
 - 1/4" max shim space

Substrate: 3,000 psi Concrete

Anchor Capacity (Shear of 1/4" Tapcon)

$$P_{ss} / \Omega = \underline{232 \text{ lb}} \quad (\text{NOA-No. 24-0102.06})$$

Bearing Capacity (of aluminum frame)

$$P_B = 2 d t F_{tu} = 2 (0.250") (0.080") (22,000 \text{ psi}) = 880 \text{ lb}$$

$$P_{ALLOW} = 880 \text{ lb} / 3.0 = \underline{293 \text{ lb}}$$

Bending Capacity (of 1/4" Tapcon)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.190")^3 / 32 = 0.000673 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(137,000 \text{ psi}) = 106,860 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000673 \text{ in}^3)(106,860 \text{ psi}) / 1/4"$$

$$V = \underline{575 \text{ lb}}$$

Design Capacity of the Connection = 232 lb

Alternate Installation – Aluminum Strap Anchor to Concrete

→ Sill

Anchor: 1/4" Tapcon Anchor
- 1-1/2" min embedment
- 1-1/2" min edge distance
- 4" min anchor spacing

Details: Aluminum Strap Anchor (0.100" thick, 6063-T6)
- 1/4" max shim space

Substrate: 3,000 psi Concrete

Anchor Capacity (Shear of 1/4" Tapcon)

$$P_{ss} / \Omega = \underline{232 \text{ lb}} \quad (\text{NOA-No. 24-0102.06})$$

Bearing Capacity (of Aluminum Strap Anchor)

$$P_B = 2 d t F_{tu} = 2 (0.250") (0.100") (30,000 \text{ psi}) = 1,500 \text{ lb}$$

$$P_{ALLOW} = 1,500 \text{ lb} / 3.0 = \underline{500 \text{ lb}}$$

Bending Capacity (of 1/4" Tapcon)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.190")^3 / 32 = 0.000673 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(137,000 \text{ psi}) = 106,860 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000673 \text{ in}^3)(106,860 \text{ psi}) / 1/4"$$

$$V = \underline{575 \text{ lb}}$$

Design Capacity of the Connection = 232 lb

Alternate Installation – Through-Frame to CMU Block

→ Head and Jamb

Anchor: 1/4" Tapcon Anchor
- 1" min embedment
- 2" min edge distance
- 2" min anchor spacing

Details: Through the Aluminum Frame
- 0.080" thick frame at anchor location
- 1/4" max shim space

Substrate: CMU Block (ASTM C90)

Anchor Capacity (Shear of 1/4" Tapcon)

$$P_{ss} / \Omega = \underline{161 \text{ lb}} \quad (\text{NOA-No. 24-0102.06})$$

Bearing Capacity (of aluminum frame)

$$P_B = 2 d t F_{tu} = 2 (0.250") (0.080") (22,000 \text{ psi}) = 880 \text{ lb}$$

$$P_{ALLOW} = 880 \text{ lb} / 3.0 = \underline{293 \text{ lb}}$$

Bending Capacity (of 1/4" Tapcon)

$$L = 1/4" \text{ (maximum shim space)}$$

$$S = \pi d^3 / 32 = \pi (0.190")^3 / 32 = 0.000673 \text{ in}^3$$

$$F_b = (1.3)(0.6 F_y) = (1.3)(0.6)(137,000 \text{ psi}) = 106,860 \text{ psi} \quad (1.3 \text{ for weak axis bending})$$

$$F_b = M / S = (V) (L/2) / S \quad (L/2 \text{ for guided bending})$$

$$V = 2 S F_b / L = (2)(0.000673 \text{ in}^3)(106,860 \text{ psi}) / 1/4"$$

$$V = \underline{575 \text{ lb}}$$

Design Capacity of the Connection = 161 lb

Alternate Anchorage Requirements

Series/Model: 3010i-A4 2-Wide Awning
 Test Unit Size: 120" x 40"
 Design Pressure: ± 70 psf

Through-Frame Installation Method

Total Applied Load

Load Area = $(120") (40") / 144 = 33.33 \text{ ft}^2$

Load to the Anchors = $(33.33 \text{ ft}^2) (70 \text{ psf}) = 2,333 \text{ lb}$

Wood Installations

	Anchor Capacity	# of Anchors	Anchorage Capacity	Total Anchorage Capacity	Result
Head	121 lb	10	1,210 lb	3,146 lb	OK
Sill	121 lb	10	1,210 lb		
Jambs	121 lb	3 per jamb	726 lb		

Steel Stud Installations

	Anchor Capacity	# of Anchors	Anchorage Capacity	Total Anchorage Capacity	Result
Head	182 lb	10	1,820 lb	4,732 lb	OK
Sill	182 lb	10	1,820 lb		
Jambs	182 lb	3 per jamb	1,092 lb		

Concrete/CMU Installations

	Anchor Capacity	# of Anchors	Anchorage Capacity	Total Anchorage Capacity	Result
Head	161 lb	10	1,610 lb	4,896 lb	OK
Sill	232 lb	10	2,320 lb		
Jambs	161 lb	3 per jamb	966 lb		

** As calculated above, the total anchor capacity is greater than the applied load on the anchors. Therefore, the as tested anchor spacing is acceptable.

Alternate Anchorage Requirements

Series/Model: 3010i-A4 Single Awning
 Test Unit Size: 60" x 40"
 Design Pressure: ± 70 psf

Through-Frame Installation Method

Total Applied Load

Load Area = (60") (40") / 144 = 16.67 ft²

Load to the Anchors = (16.67 ft²) (70 psf) = 1,167 lb

Wood Installations

	Anchor Capacity	# of Anchors	Anchorage Capacity	Total Anchorage Capacity	Result
Head	121 lb	4	484 lb	1,694 lb	OK
Sill	121 lb	4	484 lb		
Jambs	121 lb	3 per jamb	726 lb		

Steel Stud Installations

	Anchor Capacity	# of Anchors	Anchorage Capacity	Total Anchorage Capacity	Result
Head	181 lb	4	724 lb	2,534 lb	OK
Sill	181 lb	4	724 lb		
Jambs	181 lb	3 per jamb	1,086 lb		

Concrete/CMU Installations

	Anchor Capacity	# of Anchors	Anchorage Capacity	Total Anchorage Capacity	Result
Head	161 lb	4	644 lb	2,538 lb	OK
Sill	232 lb	4	928 lb		
Jambs	161 lb	3 per jamb	966 lb		

** As calculated above, the total anchor capacity is greater than the applied load on the anchors. Therefore, the as tested anchor spacing is acceptable.

Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	3/11/2025	All	Original Report Issue