

MARINO + WARE®
QUICKFRAME™
Rough Opening System

A Better Way to
Build Rough Openings

TECHNICAL GUIDE

MARINO + WARE®

GENERAL INFORMATION

The QuickFrame™ Rough Opening System streamlines installation by reducing the number of components required to frame windows and doors. The QuickFrame™ system comes in extra wide flanges and extra long returns and can be used for exterior or interior framing around any non-load bearing opening. Simply attach the header and jamb with our QuickFrame™ Clip for “quick” and easy installation.

- INCREASED PERFORMANCE
- LESS MATERIAL WEIGHT AND PIECES
- 50% REDUCTION IN ASSEMBLY TIME
- ELIMINATING BUILT-UP JAMBS AND HEADERS
- PREDRILLED HOLES IN THE CLIP FOR EASY INSTALLATION

QuickFrame Identification System (in compliance with SSMA)

600-QFH-300-54

600-QFJ-300-54

- Member Width 6”=600 x 1/100 in.
- Style: QF = QuickFrame Header/Jamb
- Flange Width: 3”= 3.00”=300x1/100 in.
- Material Thickness: Minimum Base Metal Thickness: 0.054 in.=54 mils (1 mil=1/1000 in.)

SYMBOLS AND DEFINITIONS

Gross Properties

I_x	Moment of inertia about x-axis
S_x	Section modulus about x-axis
r_x	Radius about x-axis
I_y	Moment of inertia about y-axis
r_y	Radius about y-axis

Effective Properties

I_{xe}	Moment of inertia about x-axis
S_{xe}	Section modulus about x-axis
M_a	Allowable moment for track and channel sections based on local buckling
V_{ag}	Allowable strong axis shear away from punchout, per AISI Section C3.2.1
V_{anet}	Allowable strong axis shear at punchout, per AISI Section 3.2.2

Torsional and other Properties

J	Saint-Venant torsion constant. The values shown in the tables have been multiplied by 1,000. To obtain the actual values, divide table values by 1,000
C_w	Torsional warping constant
x_o	Distance from shear center to centroid along principal x-axis
r_o	Polar radius of gyration about shear center
β	$1 - (x_o / r_o)^2$

APPLICATIONS

QuickFrame Header and Jamb:

- Exterior Curtain-Wall Headers and Jambs.
- Interior Non-Load Bearing Headers and Jambs.
- Load Bearing Jambs.

Notes:

1. Header must be ordered ½” shorter to accommodate the QuickFrame Clip.
2. For header application use unpunched material.

CODES AND STANDARDS

- ASTM A1003 and A653 – Material Specification
- ASTM C955 – Product and Coating Specification

PRODUCT DATA

QuickFrame Header and Jamb:

- Available Widths:
3-5/8”, 4”, 6” and 8”
- Available Flanges:
3” and 3-1/2”
- Return Lip:
1”

QuickFrame Clip:

- Available Lengths:
3-1/2” (for 3-5/8” stud)
3-7/8” (for 4” stud)
5-7/8” (for 6” stud)
7-7/8” (for 8” stud)
- Available Heights:
3-1/8” (for 3” flange header)
3-5/8” (for 3-1/2” flange header)

MATERIAL SPECIFICATIONS

QuickFrame Header and Jamb:

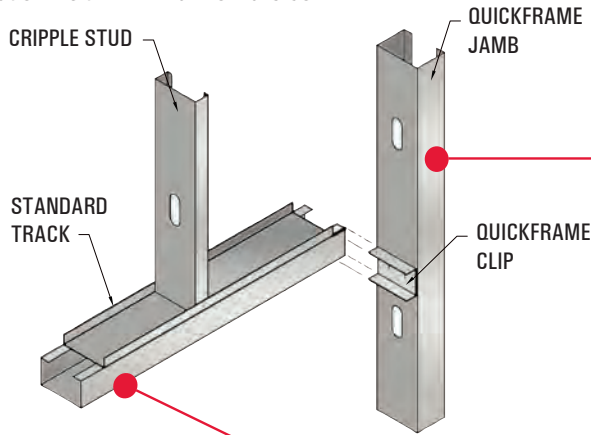
- Available Thickness’s:
33 mils (20 Gauge)
43 mils (18 Gauge)
54 mils (16 Gauge)
68 mils (14 Gauge)
97 mils (12 Gauge)
118 mils (10 Gauge)
- Yield Strength:
50 ksi
- Coating:
G60 standard
G90 available upon request

QuickFrame Clip:

- Available Gauge:
68 mils (14 Gauge)
- Yield Strength:
50 ksi
- Coating:
G90 standard

ILLUSTRATION DETAILS

The complete QuickFrame System is available through all MarinoWARE suppliers and components can be used separately or together with all MarinoWARE framing solutions. For more information visit www.MarinoWare.com.



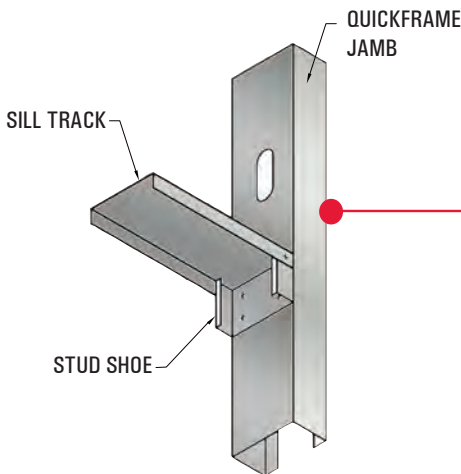
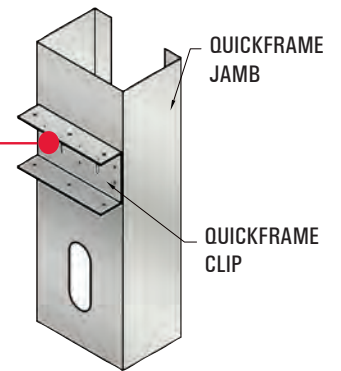
QUICKFRAME JAMB

- Replaces built-up headers & jamb
- One header eliminates multiple pieces
- Pre-cut to length
- Equal or greater in strength than traditional multiple piece assemblies
- Reduced assembly time by 50%

QUICKFRAME HEADER

QUICKFRAME CLIP

- Simple one piece clip
- Predrilled holes for easy installation
- Available in 14 gauge with 3" and 3 1/2" flange
- Prefabricated slots to ease adjustments

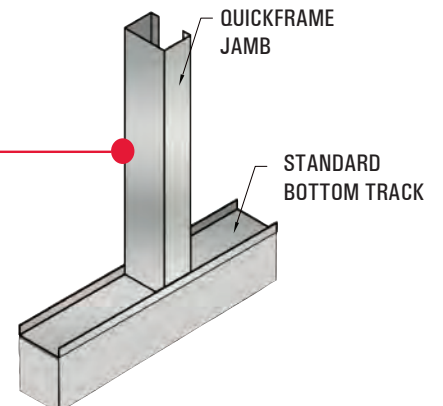


SILL & QUICKFRAME JAMB

- One sill track eliminates multiple pieces
- Pre-cut to length
- Works with larger openings
- Reduced assembly time by 50%

QUICKFRAME JAMB

- Replaces built-up jamb
- Pre-cut to length
- Equal or greater in strength than traditional multiple piece assemblies
- Reduced assembly time by 50%



QUICKFRAME™ CLIP (QFC)

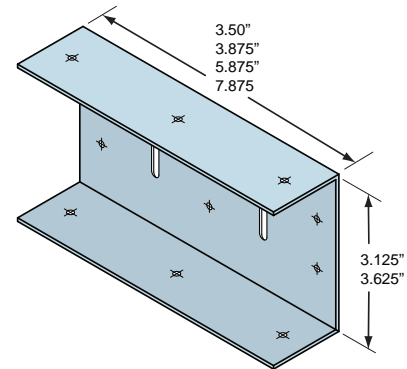
The QuickFrame Clip (QFC) is a 14 gauge (68 mil) U-shaped clip is designed to attach the QuickFrame Header to the QuickFrame Jamb.

Material: 68 mil (14 gauge), 50 ksi

Finish: Galvanized G90

Installation:

- Attach the QuickFrame clip (QFC) with minimum of 4 #10-16 screws to the QuickFrame Jamb (QFJ) and QuickFrame Header (QFH) respectively.



MODEL NO.	GAUGE	DIMENSIONS
QFC362300	14	3 1/2" x 3 1/8"
QFC400300	14	3 7/8" x 3 1/8"
QFC600300	14	5 7/8" x 3 1/8"
QFC800300	14	7 7/8" x 3 1/8"
QFC362350	14	3 1/2" x 3 5/8"
QFC400350	14	3 7/8" x 3 5/8"
QFC600350	14	5 7/8" x 3 5/8"
QFC800350	14	7 7/8" x 3 5/8"

QFC ALLOWABLE LATERAL LOADS (LBS.)

QuickFrame Clip	QuickFrame Member			
	54 mil (16 Gauge)	68 mil (14 Gauge)	97 mil (12 Gauge)	110 mil (10 Gauge)
	50 ksi	50 ksi	50 ksi	50 ksi
QFC362300	1,330	1,330	2,160	2,160
QFC400300	1,330	1,330	2,160	2,160
QFC600300	1,490	1,490	2,300	2,300
QFC800300	1,490	1,490	2,300	2,300
QFC362350	1,500	1,500	2,480	2,480
QFC400350	1,480	1,480	2,300	2,300
QFC600350	1,480	1,480	2,300	2,300
QFC800350	1,480	1,480	2,300	2,300

QFC ALLOWABLE VERTICAL LOADS (LBS.)

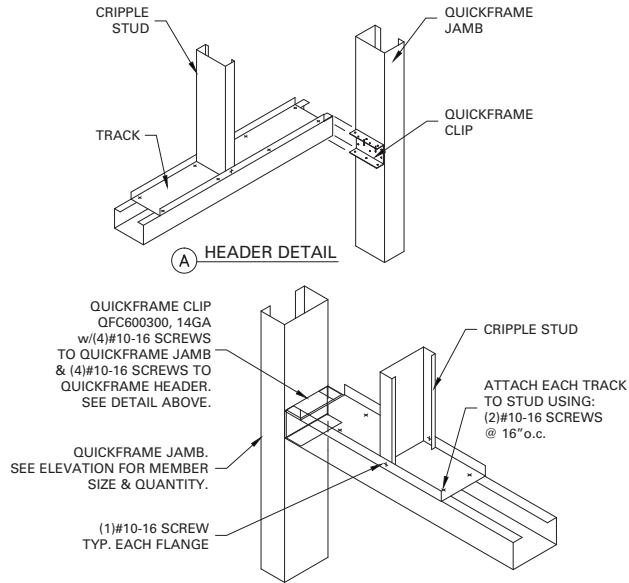
QuickFrame Clip	QuickFrame Member							
	54 mil (16 Gauge)		68 mil (14 Gauge)		97 mil (12 Gauge)		110 mil (10 Gauge)	
	50 ksi		50 ksi		50 ksi		50 ksi	
	0" Gap	1/4" Gap	0" Gap	1/4" Gap	0" Gap	1/4" Gap	0" Gap	1/4" Gap
QFC362300	1,090	948	1,090	948	1,630	1,418	1,630	1,418
QFC400300	1,030	896	1,030	896	1,380	1,200	1,380	1,200
QFC600300	1,030	896	1,030	896	1,380	1,200	1,380	1,200
QFC800300	1,030	896	1,030	896	1,380	1,200	1,380	1,200
QFC362350	940	818	940	818	1,430	1,244	1,430	1,244
QFC400350	940	818	940	818	1,430	1,244	1,430	1,244
QFC600350	1,030	896	1,030	896	1,710	1,488	1,710	1,488
QFC800350	1,030	896	1,030	896	1,710	1,488	1,710	1,488

- Notes:
- A. Tabulated values are based on #10-16 screws with ultimate shear capacity of 1,600 lbs per screw.
 - B. Allowable loads have not been increased for wind or seismic.
 - C. Use the squared interaction equations when QFC subjected to both vertical and lateral loads.
 - D. Tabulated vertical loads are limited to max 1/8" vertical displacement of the clip.
 - E. Up to 1/4" gap is permitted between the end of QF Header and the QF Jamb. Allowable vertical loads are listed for no gap and 1/4" gap. Linear interpolations is permitted for smaller gaps.

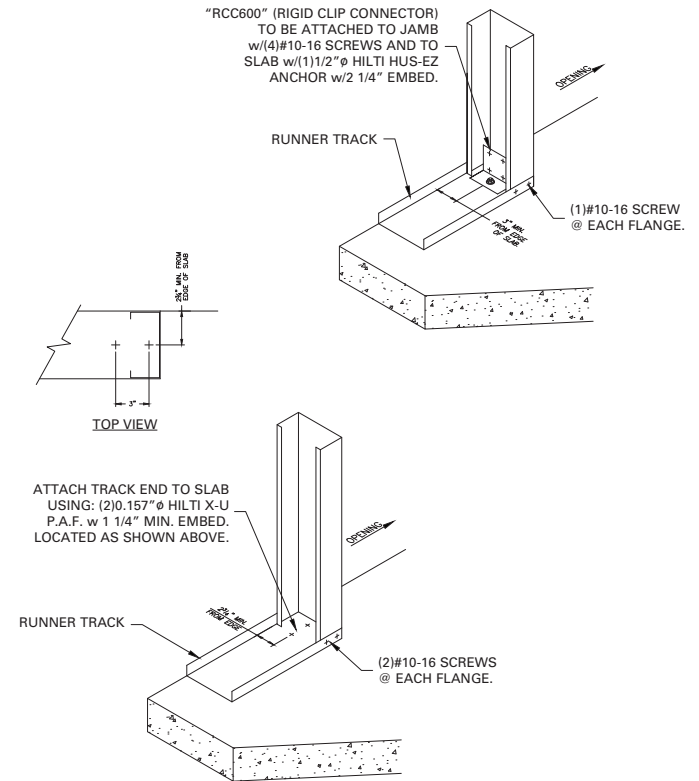
*1/4" GAP is the distance from the web of the QuickFrame Jamb to the end of the QuickFrame Header
Use 0" Gap values when the QuickFrame Header is tight against the QuickFrame Clip.

SUGGESTED CONNECTION DETAILS

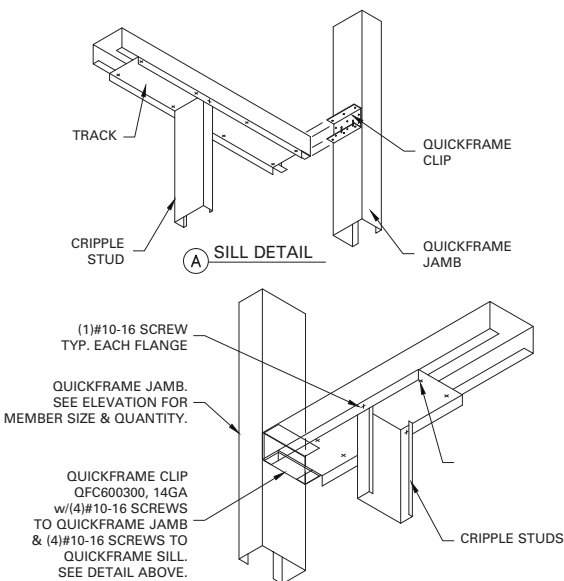
1. QUICKFRAME HEADER CONNECTION



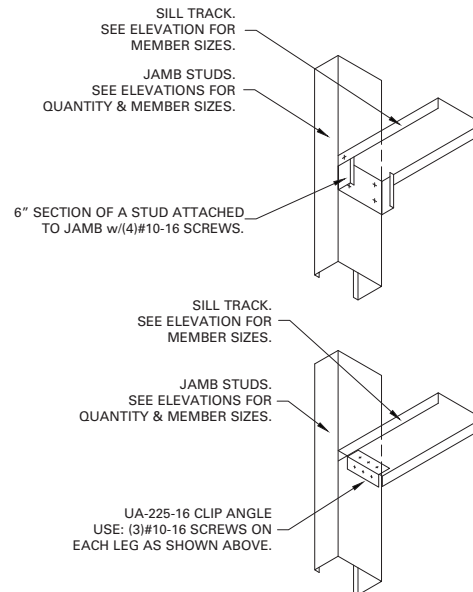
2. JAMB ANCHORAGE

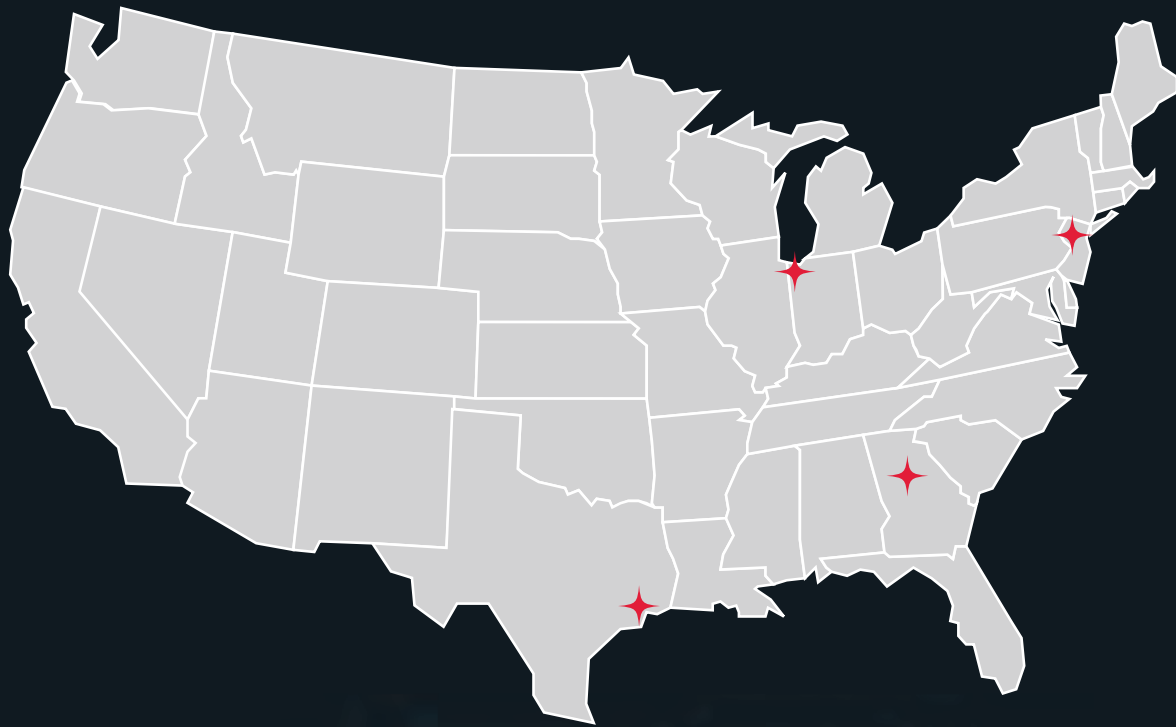


3. QUICKFRAME SILL CONNECTION



4. SILL TRACK CONNECTION





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This technical information reflects the most current information available and supersedes any and all previous publications effective June 10, 2016 #QFRM-0616

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