

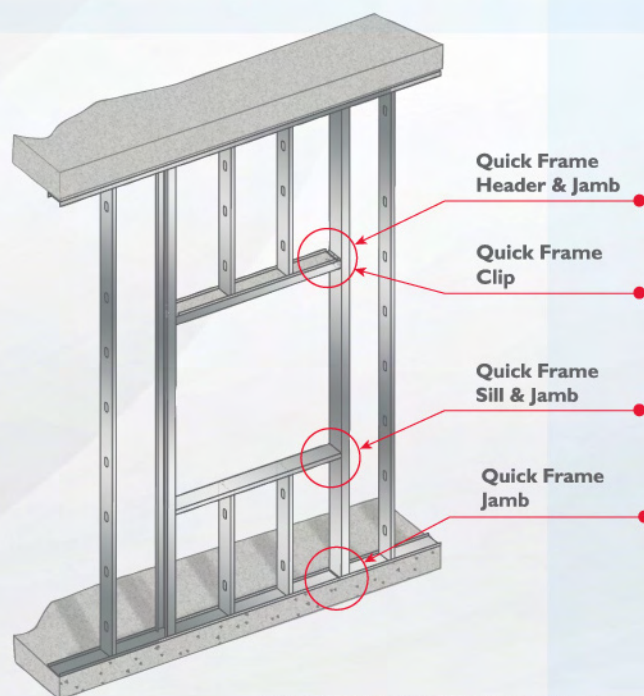
Want a Faster way to Build Rough Openings in Steel Wall Framing?

MARINO★**WARE**



QUICKFRAME™ Rough Opening System

New from Marino\WARE, no more building multiple piece headers, jambs and sills. Now a single QuickFrame™ member can replace built-up headers and jambs reducing jobsite labor assembly time by more than 50%. Our QuickFrame Header, Jamb and Sill can be put together “quickly” with an easy to use clip for faster installation.



www.MarinoWare.com

A Better Way to Build Rough Openings

Marino\WARE is proud to offer yet another cost and labor saving building system exclusively for rough openings in steel wall framing. The QuickFrame™ Rough Opening System streamlines the installation process 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 jamb. Simply attach the header, jamb, and sill with our one piece QuickFrame Clip for “quick” and easy installation.

Benefits Include:

- 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

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

Header & Jamb

Widths:

- 3 5/8”, 4”, 6”, and 8”

Flanges:

- 3” & 3 1/2”

Thickness:

- 54mils (16ga)
- 68mils (14ga)
- 97mils (12ga)
- 110mils (10ga)

Header Lip/Return:

- 1”

Header:

- Unpunched

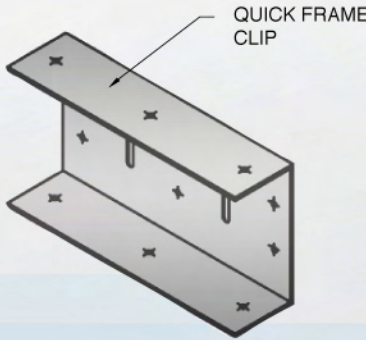
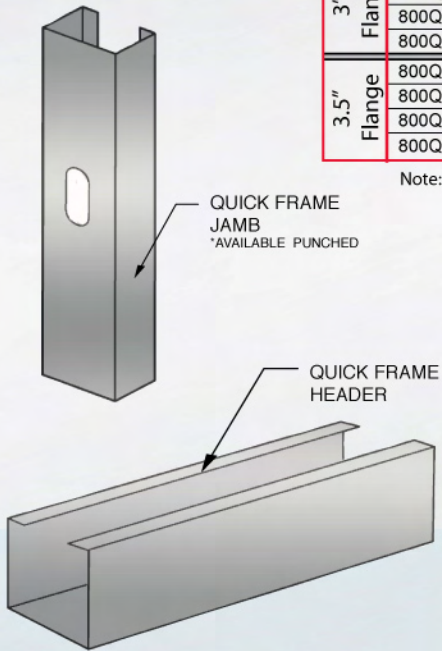
Jamb

- Punched

Length:*

- Min. 4’

*Header must be ordered 1/2” shorter to accommodate clip



Note: Properties are based on AISI NASPEC 2001

Physical and Structural Properties																							
	Member Physical Properties			Gross Section Properties							Effective Section Properties								Torsional Properties				
	Members	Design Thickness (in.)	Weight (plf.)	Area (in. ²)	Ix (in. ⁴)	Sx (in. ³)	Rx (in.)	Iy (in. ⁴)	Sy (in. ³)	Ry (in.)	Punched				Web in Tension (Unpunched)				J x1000 (in. ⁴)	Cw (in. ⁶)	Xo (in.)	Ro (in.)	Beta
											Ixe (in. ⁴)	Sxe (in. ³)	Max (in.-k.)	Vax (k.)	Iye (in. ⁴)	Sye (in. ³)	May (in.-k.)	Vay (k.)					
3 5/8" Members																							
3" Flange	362QF300-54 (50 ksi)	0.0566	2.16	0.634	1.43	0.79	1.50	0.86	0.50	1.17	1.28	0.65	19.48	5.767	0.80	0.45	13.55	3.37	0.677	3.742	-2.956	3.516	0.293
	362QF300-68 (50 ksi)	0.0713	2.69	0.791	1.77	0.98	1.50	1.06	0.62	1.16	1.67	0.89	26.54	7.068	1.04	0.60	18.04	4.37	1.340	4.554	-2.938	3.495	0.293
	362QF300-97 (50 ksi)	0.1017	3.76	1.105	2.42	1.34	1.48	1.44	0.84	1.14	2.40	1.31	43.35	9.502	1.44	0.84	28.98	5.94	3.810	6.038	-2.899	3.450	0.294
	362QF300-110 (50 ksi)	0.1242	4.52	1.329	2.87	1.58	1.47	1.70	0.99	1.13	2.87	1.58	53.28	11.081	1.70	0.99	34.99	7.00	6.830	6.971	-2.870	3.416	0.294
3.5" Flange	362QF350-54 (50 ksi)	0.0566	2.35	0.691	1.61	0.89	1.53	1.24	0.63	1.34	1.38	0.69	20.54	6.743	1.16	0.57	16.99	3.37	0.738	5.312	-3.449	4.004	0.258
	362QF350-68 (50 ksi)	0.0713	2.93	0.862	2.00	1.10	1.52	1.53	0.77	1.33	1.80	0.92	27.67	8.405	1.50	0.75	22.53	4.37	1.461	6.481	-3.431	3.982	0.258
	362QF350-97 (50 ksi)	0.1017	4.10	1.207	2.74	1.51	1.51	2.09	1.05	1.31	2.61	1.38	41.31	11.409	2.09	1.05	36.31	5.94	4.162	8.636	-3.392	3.937	0.258
	362QF350-110 (50 ksi)	0.1242	4.94	1.453	3.25	1.79	1.49	2.46	1.24	1.30	3.19	1.73	57.27	13.410	2.46	1.24	44.00	7.00	7.473	10.012	-3.362	3.903	0.258
4" Members																							
3" Flange	400QF300-54 (50 ksi)	0.0566	2.23	0.655	1.79	0.90	1.65	0.90	0.51	1.17	1.60	0.74	22.15	5.767	0.83	0.46	13.73	3.37	0.700	4.356	-2.883	3.528	0.332
	400QF300-68 (50 ksi)	0.0713	2.78	0.818	2.22	1.11	1.65	1.10	0.63	1.16	2.09	1.01	30.14	7.068	1.08	0.61	18.29	4.87	1.386	5.306	-2.870	3.506	0.330
	400QF300-97 (50 ksi)	0.1017	3.89	1.144	3.04	1.52	1.63	1.50	0.85	1.14	3.01	1.49	49.18	9.502	1.50	0.85	29.41	6.66	3.942	7.047	-2.831	3.461	0.331
	400QF300-110 (50 ksi)	0.1242	4.68	1.376	3.60	1.80	1.62	1.76	1.00	1.13	3.60	1.80	60.67	11.081	1.76	1.00	35.51	7.87	7.074	8.147	-2.801	3.427	0.332
3.5" Flange	400QF350-54 (50 ksi)	0.0566	2.42	0.712	2.01	1.01	1.68	1.29	0.64	1.34	1.72	0.78	23.32	6.743	1.20	0.58	17.23	3.37	0.760	6.192	-3.377	4.005	0.289
	400QF350-68 (50 ksi)	0.0713	3.02	0.889	2.49	1.25	1.67	1.59	0.78	1.34	2.25	1.05	31.36	8.405	1.56	0.76	22.87	4.87	1.507	7.560	-3.359	3.984	0.289
	400QF350-97 (50 ksi)	0.1017	4.23	1.245	3.43	1.71	1.66	2.17	1.07	1.32	3.26	1.56	46.70	11.409	2.17	1.07	36.86	6.66	4.293	10.092	-3.319	3.938	0.290
	400QF350-110 (50 ksi)	0.1242	5.10	1.500	4.07	2.03	1.65	2.56	1.26	1.31	3.99	1.95	64.84	13.410	2.56	1.26	44.68	7.87	7.713	11.716	-3.289	3.903	0.290
6" Members																							
3" Flange	600QF300-54 (50 ksi)	0.0566	2.61	0.769	4.52	1.51	2.43	1.04	0.54	1.16	4.06	1.27	37.89	5.767	0.96	0.48	14.47	2.82	0.821	8.866	-2.572	3.722	0.522
	600QF300-68 (50 ksi)	0.0713	3.27	0.960	5.61	1.87	2.42	1.28	0.66	1.15	5.32	1.71	51.18	7.068	1.25	0.64	19.27	5.35	1.628	10.837	-2.553	3.700	0.524
	600QF300-97 (50 ksi)	0.1017	4.58	1.347	7.75	2.58	2.40	1.74	0.90	1.14	7.64	2.52	83.12	9.502	1.65	0.88	31.04	10.47	4.644	14.498	-2.513	3.656	0.527
	600QF300-110 (50 ksi)	0.1242	5.52	1.624	9.24	3.08	2.38	2.06	1.06	1.13	9.24	3.08	103.75	11.081	2.06	1.06	37.56	12.53	8.351	16.860	-2.483	3.622	0.530
3.5" Flange	600QF350-54 (50 ksi)	0.0566	2.81	0.825	5.02	1.67	2.47	1.49	0.67	1.34	4.35	1.33	39.74	6.743	1.39	0.61	18.21	2.82	0.881	12.634	-3.036	4.137	0.461
	600QF350-68 (50 ksi)	0.0713	3.51	1.032	6.24	2.08	2.46	1.84	0.83	1.34	5.66	1.77	52.95	8.405	1.81	0.81	24.16	5.35	1.748	15.477	-3.017	4.115	0.462
	600QF350-97 (50 ksi)	0.1017	4.93	1.449	8.63	2.88	2.44	2.52	1.13	1.32	8.16	2.61	78.10	11.409	2.52	1.13	39.04	10.47	4.994	20.809	-2.977	4.070	0.465
	600QF350-110 (50 ksi)	0.1242	5.94	1.748	10.31	3.44	2.43	2.98	1.34	1.31	10.05	3.28	108.70	13.410	2.98	1.34	47.40	12.53	8.990	24.294	-2.946	4.035	0.467
8" Members																							
3" Flange	800QF300-54 (50 ksi)	0.0566	3.00	0.882	8.79	2.20	3.16	1.15	0.55	1.14	7.79	1.80	53.97	5.767	0.80	0.49	14.93	2.09	0.942	15.681	-2.324	4.083	0.676
	800QF300-68 (50 ksi)	0.0713	3.75	1.103	10.93	2.73	3.15	1.41	0.68	1.13	10.38	2.51	75.23	7.068	1.38	0.66	19.88	4.22	1.869	19.210	-2.305	4.062	0.678
	800QF300-97 (50 ksi)	0.1017	5.27	1.550	15.16	3.79	3.13	1.92	0.93	1.11	14.92	3.68	121.71	9.502	1.92	0.93	32.07	10.89	5.345	25.824	-2.266	4.019	0.682
	800QF300-110 (50 ksi)	0.1242	6.37	1.873	18.12	4.53	3.11	2.27	1.10	1.10	18.12	4.53	152.65	11.081	2.27	1.10	38.83	16.24	9.628	30.144	-2.236	3.986	0.685
3.5" Flange	800QF350-54 (50 ksi)	0.0566	3.19	0.938	9.68	2.42	3.21	1.65	0.69	1.32	8.24	1.86	55.64	6.743	1.53	0.63	18.84	2.09	1.002	22.352	-2.765	4.440	0.612
	800QF350-68 (50 ksi)	0.0713	3.99	1.174	12.05	3.01	3.20	2.04	0.86	1.32	10.99	2.59	77.60	8.405	2.00	0.83	25.00	4.22	1.990	27.443	-2.745	4.419	0.614
	800QF350-97 (50 ksi)	0.1017	5.62	1.652	16.74	4.19	3.18	2.79	1.17	1.30	15.81	3.80	113.80	11.409	2.79	1.17	40.43	10.89	5.696	37.069	-2.705	4.375	0.618
	800QF350-110 (50 ksi)	0.1242	6.79	2.00	20.05	5.01	3.17	3.30	1.39	1.29	19.49	4.77	158.30	13.410	3.30	1.39	49.13	16.24	10.267	43.434	-2.675	4.314	0.616

QuickFrame Clip			
Material: 50ksi		Coating: G-90	
Member	GA	Length(in)	Height (in)
QFC362300	14	3.500	3.125
QFC400300	14	3.875	3.125
QFC600300	14	5.875	3.125
QFC800300	14	7.875	3.125
QFC362350	14	3.500	3.625
QFC400350	14	3.875	3.625
QFC600350	14	5.875	3.625
QFC800350	14	7.875	3.625

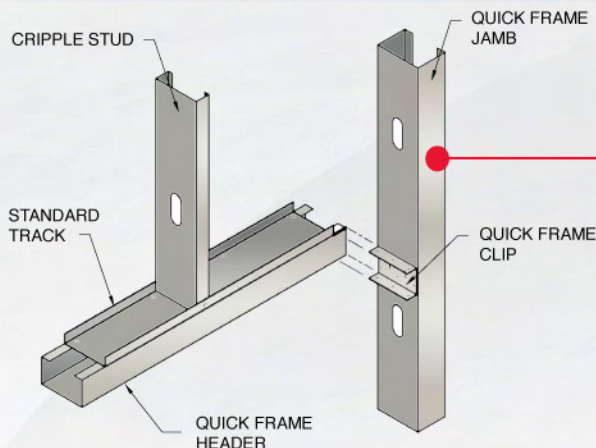
QuickFrame Identification System (in Compliance with SSMA)

600-QF-300-54

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

QUICKFRAME™

Rough Opening System

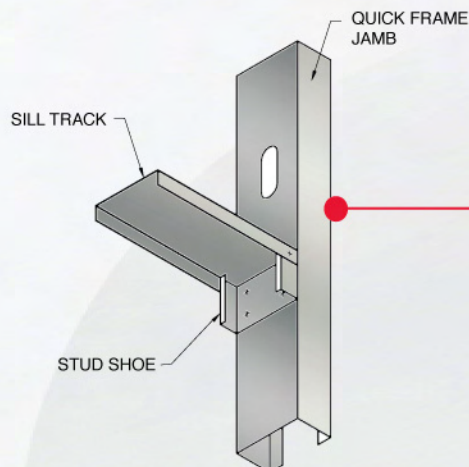
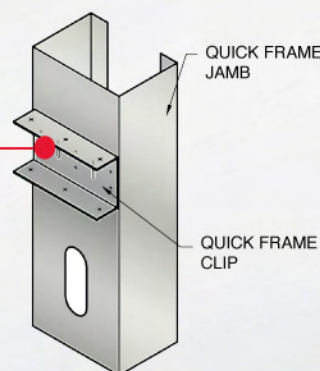


Quick Frame Header & Jamb

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

Quick Frame 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

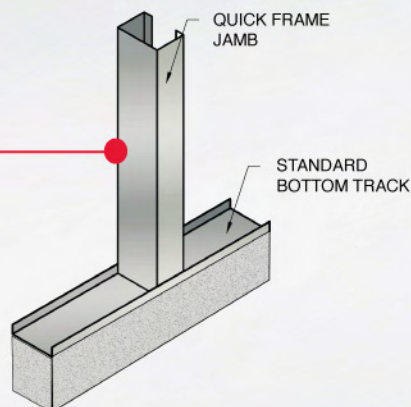


Quick Frame Sill & Jamb

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

Quick Frame Jamb

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



MARINO WARE

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