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Physical and Structural Properties																								
	Member Physical Properties				Gross Section Properties							Effective Section Properties								Torsional Properties				
	Members	Design Thickness (in.)	Weight (plf.)	Area (in.²)	lx (in. <sup>4</sup> )	Sx (in.³)	Rx (in.)	ly (in. <sup>4</sup> )	Sy (in.³)	Ry (in.)	Punched			Web in Tension (Unpunched)			ched)	J						
											Ixe (in. <sup>4</sup> )	Sxe (in.³)	Max (ink.)	Vax (k.)	lye (in. <sup>4</sup> )	Sye (in.³)	May (ink.)	Vay (k.)	x1000 (in. <sup>4</sup> )	Cw (in. <sup>6</sup> )	Xo (in.)	Ro (in.)	Beta	
3 !	5/8" Members	6																						
o O	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	
3" ang	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) 362QF300-110 (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	
		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	
ge "	362QF350-54 (50 ksi) 362QF350-68 (50 ksi)	0.0566 0.0713	2.35 2.93	0.691 0.862	1.61 2.00	0.89 1.10	1.53 1.52	1.24 1.53	0.63 0.77	1.34	1.38 1.80	0.69	20.54 27.67	6.743 8.405	1.16 1.50	0.57 0.75	16.99 22.53	3.37 4.37	0.738 1.461	5.312 6.481	-3.449 -3.431	4.004 3.982	0.258 0.258	
3.5′ Flang	362QF350-97 (50 ksi)	0.0713	4.10	1.207	2.74	1.10	1.52	2.09	1.05	1.33	2.61	1.38	41.31	11.409	2.09	1.05	36.31	5.94	4.162	8.636	-3.431	3.982	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	•	•																·	•	•			
	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	
ľ ĝ	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	
- 프	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	
u	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	
.5. ng	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	
- 프	400QF350-97 (50 ksi) 400QF350-110 (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	
6"		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																							
41	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	
[호 교	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	
یه ا	600QF350-54 (50 ksi) 600QF350-68 (50 ksi)	0.0566	2.81	0.825 1.032	5.02	1.67 2.08	2.47	1.49	0.67	1.34	4.35 5.66	1.33	39.74 52.95	6.743 8.405	1.39	0.61	18.21 24.16	2.82	0.881	12.634	-3.036	4.137	0.461	
.5. ang	600QF350-97 (50 ksi)	0.0713 0.1017	3.51 4.93	1.032	6.24 8.63	2.08	2.46 2.44	1.84 2.52	0.83 1.13	1.34	8.16	2.61	78.10	11,409	1.81 2.52	0.81 1.13	39.04	5.35 10.47	1.748 4.994	15.477 20.809	-3.017 -2.977	4.115 4.070	0.462 0.465	
3. Fa	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																							
d)	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	
ا" پور	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	
3, Flan	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	
ـــــــــــــــــــــــــــــــــــــــ	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	
یو	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	
.5. Ing	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	

Note: Properties are based on AISI NASPEC 2001

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.)

A Better Way to Build Rough Openings