



Building a Better Way.



## SECTION PROPERTIES CHART

# PROX HEADER SECTION PROPERTIES CHART

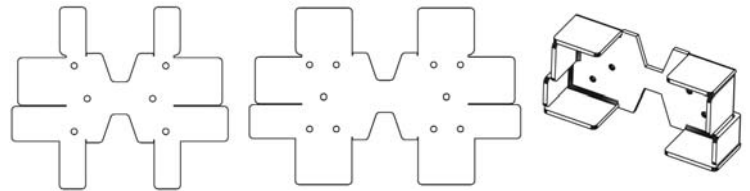
Section	Design Thickness (in)	Gross Properties				Effective Properties				V <sub>sr</sub>							
		Area (in <sup>2</sup> )	Weight (lb/ft)	I <sub>xx</sub> (in <sup>4</sup> )	I <sub>yy</sub> (in <sup>4</sup> )	S <sub>x</sub> (t) (in <sup>3</sup> )	S <sub>y</sub> (t) (in <sup>3</sup> )	S <sub>y</sub> (b) (in <sup>3</sup> )	I <sub>x</sub> eff (+) (in <sup>4</sup> )	I <sub>y</sub> eff (in <sup>4</sup> )	Maxo(+) (in-k)	Mayo (in-k)	#10 - 24" o/c (lb)	#10 - 12" o/c (lb)	#10 - 6" o/c (lb)	V <sub>sr</sub> (lb)	
250XT425-33	0.0346	0.4583	0.0016	0.7249	0.4919	0.2736	0.4528	0.3935	1.6010	0.3554	0.3623	2.33	4.83	2839	-	-	447
250XT425-33	0.0346	0.7293	0.0025	0.8596	0.6818	0.3554	0.4694	0.5455	1.8314	0.5809	0.5609	4.39	7.99	108	216	433	842
250X425-43	0.0451	0.5933	0.0020	0.9299	0.6218	0.3529	0.5812	0.5016	1.6001	0.5336	0.4829	3.56	6.65	3690	-	-	572
250XT425-43	0.0451	0.9425	0.0032	1.1019	0.8599	0.4581	0.6022	0.6936	1.8298	0.7967	0.7290	6.14	10.63	171	342	683	1077
250X425-54	0.0566	0.7365	0.0025	1.1428	0.7521	0.4367	0.7132	0.6122	1.6023	0.6582	0.5713	6.78	11.91	6919	-	-	991
250XT425-54	0.0566	1.1688	0.0040	1.3521	1.0363	0.5662	0.7384	0.8436	1.8310	0.9789	0.8666	11.52	19.20	349	697	1395	1850
250X425-68	0.0713	0.9142	0.0031	1.3997	0.9027	0.5400	0.8715	0.7435	1.6060	0.9576	0.7233	10.24	15.66	8537	-	-	1071
250XT425-68	0.0713	1.4426	0.0049	1.6525	1.2375	0.6988	0.9015	1.0193	1.8331	1.3047	1.0674	15.76	24.29	531	1061	1980	1980
362X425-33	0.0346	0.4885	0.0017	0.7487	1.1067	0.2786	0.4793	0.6106	1.5622	0.3699	0.8318	2.41	7.72	2839	-	-	552
362XT425-33	0.0346	0.7985	0.0027	0.9237	1.5771	0.3808	0.5064	0.8701	1.8242	0.6453	1.3201	4.90	13.08	99	198	397	1221
362X425-43	0.0451	0.6329	0.0022	0.9608	1.4110	0.3593	0.6155	0.7628	1.5611	0.5540	1.1133	3.71	10.63	3690	-	-	710
362XT425-43	0.0451	1.0369	0.0035	1.1887	2.0242	0.4930	0.6517	1.1230	1.8241	0.8839	1.7432	6.84	17.61	155	310	621	1581
362X425-54	0.0566	0.7868	0.0027	1.1819	1.7236	0.4449	0.7565	0.9620	1.5624	0.6840	1.3324	6.99	19.21	6919	-	-	1258
362XT425-54	0.0566	1.2891	0.0044	1.4644	2.4694	0.6118	0.8022	1.3782	1.8254	1.0919	2.1017	12.90	32.19	317	634	1268	2797
362X425-68	0.0713	0.9785	0.0033	1.4497	2.0953	0.5505	0.9265	1.1786	1.5647	0.9944	1.7012	10.52	25.32	8537	-	-	1416
362XT425-68	0.0713	1.6009	0.0054	1.7981	2.9801	0.7584	0.9841	1.6763	1.8271	1.4502	2.6059	17.55	40.78	477	954	1908	3106
400X425-33	0.0346	0.5015	0.0017	0.7789	1.3605	0.2855	0.5117	0.6903	1.5222	0.3879	1.0259	2.50	8.66	2839	-	-	713
400XT425-33	0.0346	0.8248	0.0028	0.9820	1.9512	0.4012	0.5419	0.9762	1.8121	0.6996	1.6375	5.28	14.74	95	190	380	1542
400X425-43	0.0451	0.6498	0.0022	0.9998	1.7374	0.3684	0.6573	0.8730	1.5210	0.5800	1.3741	3.84	11.93	3690	-	-	919
400XT425-43	0.0451	1.0690	0.0036	1.2717	2.5172	0.5197	0.6996	1.2562	1.8178	0.9602	2.1713	7.34	19.76	145	290	580	1956
400X425-54	0.0566	0.8081	0.0027	1.2305	2.2161	0.4563	0.8084	1.0742	1.5221	0.7166	1.6481	7.23	21.59	6919	-	-	1656
400XT425-54	0.0566	1.3339	0.0045	1.5897	3.1269	0.6488	0.8732	1.5559	1.8205	1.1974	2.6606	13.84	36.37	298	596	1192	4265
400X425-68	0.0713	1.0053	0.0034	1.5106	2.5909	0.5649	0.9912	1.3183	1.5240	1.0404	2.1076	10.86	28.47	8537	-	-	1917
400XT425-68	0.0713	1.6627	0.0059	1.9820	3.8750	0.8087	1.0849	1.9209	1.8271	1.6064	3.3872	18.93	46.76	445	890	1780	7127
600X425-33	0.0346	0.5707	0.0019	0.9168	3.2507	0.3150	0.6844	1.0836	1.3395	0.4686	2.4664	2.87	14.04	2839	-	-	1570
600XT425-33	0.0346	0.9629	0.0033	1.2816	4.7898	0.5145	0.7286	1.5966	1.7589	0.9842	4.0192	7.36	24.22	81	162	324	3256
600X425-43	0.0451	0.7400	0.0025	1.1779	4.1732	0.4066	0.8803	1.3957	1.3381	0.6968	3.3545	4.37	19.70	3690	-	-	2037
600XT425-43	0.0451	1.2512	0.0043	1.6530	6.1790	0.6675	0.9397	2.0666	1.7589	1.3322	5.4013	10.14	33.34	125	250	500	4234
600X425-54	0.0566	0.9213	0.0031	1.4520	5.1380	0.5042	1.0853	1.7247	1.3383	0.8626	4.0564	8.24	35.94	6919	-	-	3781
600XT425-54	0.0566	1.5560	0.0053	2.0420	7.5680	0.8301	1.1615	2.5404	1.7584	1.6496	6.5438	19.14	61.16	256	512	1024	7804
600X425-68	0.0713	1.1479	0.0039	1.7880	6.3120	0.6252	1.3352	2.1286	1.3389	1.2472	5.2053	12.28	47.28	8537	-	-	4595
600XT425-68	0.0713	1.9385	0.0066	2.5220	9.2770	1.0341	1.4339	3.1286	1.7590	2.1544	8.2200	25.54	78.07	377	754	1508	9440
800X425-33	0.0346	0.6399	0.0022	1.0250	6.1460	0.3355	0.8561	6.1460	1.1967	0.5296	4.4876	3.12	18.85	2839	-	-	2047
800XT425-33	0.0346	1.0981	0.0037	1.5760	9.1800	0.6226	0.9173	2.2951	1.7183	1.1815	7.3639	8.55	32.52	70	140	280	4031
800X425-43	0.0451	0.8302	0.0028	1.3170	7.9120	0.4332	1.1016	1.9829	1.1954	0.7856	6.2463	4.74	27.29	3690	-	-	3151
800XT425-43	0.0451	1.4235	0.0048	2.0280	11.8000	0.8053	1.1818	2.9573	1.7164	1.6550	10.0550	12.34	45.92	112	224	448	6404
800X425-54	0.0566	1.0345	0.0035	1.6250	9.7740	0.0538	1.3598	2.4562	1.1952	0.9734	7.6190	8.94	50.35	6919	-	-	5901
800XT425-54	0.0566	1.7709	0.0060	2.5050	14.5410	1.0004	1.4606	3.6543	1.7150	2.0590	12.3290	23.44	85.44	230	460	920	11988
800X425-68	0.0713	1.2905	0.0044	2.0030	12.0580	0.6670	1.6759	3.0408	1.1951	1.4050	10.0820	13.26	69.29	8537	-	-	7265
800XT425-68	0.0713	2.2046	0.0075	3.0890	17.8800	1.2434	1.8031	4.5092	1.7134	2.7080	15.9840	31.64	114.34	342	684	1368	14756

Notes:

1. Effective Properties are based upon yield stress of 33 ksi for 33, and 43 mil headers and 50 ksi for 54 and 68 mil headers.
2. Shear allowable values are based upon the assumption of uniform loading and the spacing of screws in the channel on each side of the ProX Header and Insert.
3. For deflection calculations use the effective moment of inertia.
4. Actual shear capacity may be governed by clip connection.
5. ProX Headers are assumed braced by cripple studs at 24 inches on center minimum with #8 or #10 screws each side.

# Pro X Header® ~ Engineering Evaluation

\*US Patent NO. 6,799,408



## PROPERTIES CHART

### ProX Clip Section Properties - Screw Connection Requirements

ProX Width	ProX Gauge	Insert	No. of Tab Screws Each Direction (horiz & vertical)	Interior #8		Exterior #10	
				V <sub>VERT</sub> max (lb)	V <sub>HORIZ</sub> max (lb)	V <sub>VERT</sub> max (lb)	V <sub>HORIZ</sub> max (lb)
250	33	No	2	256	418	274	431
250	33	Yes	4	464	661	501	678
250	43	No	2	369	567	396	586
250	43	Yes	4	690	879	744	903
250	54	No	2	731	1062	788	1101
250	54	Yes	4	1414	1615	1527	1666
250	68	No	2	731	1211	788	1251
250	68	Yes	4	1414	1914	1527	1965
362	33	No	2	256	418	274	431
362	33	Yes	4	464	661	501	678
362	43	No	2	369	567	396	586
362	43	Yes	4	690	879	744	903
362	54	No	2	731	1062	788	1101
362	54	Yes	4	1414	1615	1527	1666
362	68	No	2	731	1211	788	1251
362	68	Yes	4	1414	1914	1527	1965
400	33	No	2	264	462	282	478
400	33	Yes	4	464	910	501	950
400	43	No	2	377	632	404	655
400	43	Yes	4	690	1250	744	1308
400	54	No	2	739	1194	796	1244
400	54	Yes	4	1414	2375	1527	2498
400	68	No	2	739	1343	796	1394
400	68	Yes	4	1414	2674	1527	2796
600	33	No	2	304	592	322	619
600	33	Yes	4	464	1171	501	1212
600	43	No	2	417	825	444	864
600	43	Yes	4	690	1637	744	1698
600	54	No	2	779	1591	836	1673
600	54	Yes	4	1414	3169	1527	3298
600	68	No	2	779	1740	836	1822
600	68	Yes	4	1414	3467	1527	3596
800	33	No	2	344	642	362	672
800	33	Yes	4	464	1270	501	1293
800	43	No	2	457	899	484	944
800	43	Yes	4	690	1784	744	1818
800	54	No	2	819	1742	876	1836
800	54	Yes	4	1414	3471	1527	3544
800	68	No	2	819	1891	876	1985
800	68	Yes	4	1414	3769	1527	3843

**ProX CLIP PROPERTIES CHART**

**PRO X CLIP NOTES (REF. PAGE 28)**

- JAMB MEMBER THICKNESS TO MATCH OR EXCEED PROX HEADER THICKNESS.
- WHEN USING PROX HEADER WITHOUT INSERT INSTALL ONE SCREW IN EACH OF THE FOUR CORNER HOLES WHEN APPLYING CLIPS WITH SIX HOLES. WHEN APPLYING CLIPS WITH TEN HOLES INSTALL ONE SCREW IN EACH OF THE FOUR CORNERS AND THE CENTER HOLES (6 TOTAL). WHEN USING PROX HEADER WITH INSERT INSTALL ONE SCREW IN EACH HOLE (6 TOTAL AND 10 TOTAL RESPECTIVELY).
- MAXIMUM GAP BETWEEN END OF HEADER AND JAMB TO BE 3/8 INCH EACH SIDE.
- ALL CLIPS ARE 54 MILS.
- HORIZONTAL LOADS LISTED ARE CALCULATED VALUES DIVIDED BY 0.75 TO ACCOUNT FOR AISI LOAD COMBINATIONS INVOLVING WIND.
- ALL FASTENERS/SCREWS CAN BE INSTALLED IN EITHER DIRECTION. (I.E. CLIP TO JAMB OR JAMB TO CLIP)



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