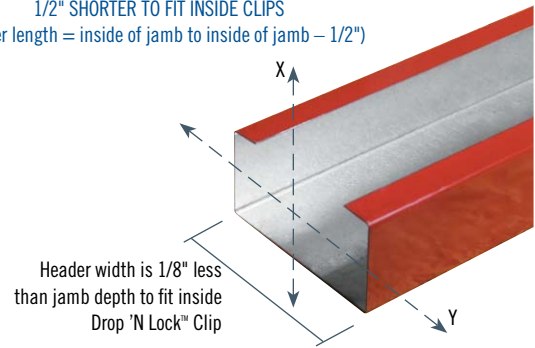


RedHeader RO™ - Header profile data:

- Header widths:
 - 3-1/2" (used with 3-5/8" jamb and clip)
 - 3-7/8" (used with 4" jamb and clip)
 - 5-7/8" (used with 6" jamb and clip)
 - 7-7/8" (used with 8" jamb and clip)
- Header thickness:
 - 33mils (20ga) 33 ksi
 - 43mils (18ga) 33 ksi
 - 54mils (16ga) 50 ksi
 - 68mils (14ga) 50 ksi
 - 97mils (12ga) 50 ksi
 - All material G60 (G90 available)
- Header flanges:
 - 3" and 3-1/2"*

(* 3-1/2" flange only available in 54, 68 and 97 mils)
- All headers are unpunched
- Header lip/return: 1"

HEADER LENGTHS SHOULD BE ORDERED
1/2" SHORTER TO FIT INSIDE CLIPS
(header length = inside of jamb to inside of jamb - 1/2")



Header stud section properties:

Section (ksi)	Design thickness (in)	Gross								Effective								Torsional				
		Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	S _y (in ³)	R _y (in)	I _{xe} (in ⁴)	I _{ye} (in ⁴)	S _{xe} (in ³)	S _{ye} (in ³)	Max (in-k)	May ¹ (in-k)	Vax (lb)	Vay ² (lb)	Jx1000 (in ⁴)	Cw (in ⁶)	Xo (in)	Ro (in)	Beta
350HS300-33(33)	0.0346	0.388	1.32	0.829	0.474	1.463	0.536	0.315	1.176	0.579	0.436	0.331	0.257	4.91	3.81	1024	2047	0.155	2.272	-3.005	3.543	0.276
350HS300-43(33)	0.0451	0.503	1.71	1.071	0.612	1.459	0.687	0.404	1.171	0.898	0.627	0.513	0.369	7.62	5.82	1739	3089	0.341	2.944	-3.025	3.557	0.277
350HS300-54(50)	0.0566	0.627	2.13	1.324	0.756	1.453	0.852	0.358	1.165	1.183	0.791	0.629	0.450	18.82	13.48	3372	5767	0.670	3.612	-3.019	3.547	0.276
350HS300-68(50)	0.0713	0.782	2.66	1.634	0.933	1.445	1.048	0.492	1.157	1.545	1.028	0.849	0.600	25.43	17.95	4202	7068	1.325	4.420	-3.013	3.536	0.274
350HS300-97(50)	0.1017	1.093	3.72	2.232	1.275	1.429	1.421	0.763	1.140	2.230	1.423	1.271	0.836	38.04	25.02	5704	9502	3.767	5.933	-3.001	3.514	0.271
350HS350-54(50)	0.0566	0.684	2.33	1.491	0.852	1.477	1.224	0.435	1.338	1.280	1.143	0.663	0.564	19.84	16.90	3372	6743	0.730	5.125	-3.515	4.041	0.243
350HS350-68(50)	0.0713	0.854	2.90	1.843	1.053	1.470	1.509	0.596	1.330	1.666	1.483	0.886	0.749	26.53	22.42	4202	8405	1.446	6.283	-3.509	4.030	0.242
350HS350-97(50)	0.1017	1.194	4.06	2.525	1.443	1.454	2.057	0.956	1.312	2.411	2.059	1.321	1.047	39.55	31.34	5704	11408	4.118	8.471	-3.497	4.008	0.239
387HS300-33(33)	0.0346	0.401	1.36	1.043	0.539	1.614	0.556	0.318	1.179	0.726	0.452	0.375	0.260	5.56	3.84	1009	2047	0.160	2.683	-2.968	3.578	0.312
387HS300-43(33)	0.0451	0.520	1.77	1.348	0.696	1.610	0.717	0.410	1.174	1.127	0.647	0.581	0.372	8.63	5.89	1739	3089	0.353	3.432	-2.956	3.565	0.312
387HS300-54(50)	0.0566	0.648	2.21	1.668	0.861	1.604	0.885	0.370	1.168	1.494	0.821	0.717	0.457	21.48	13.67	3372	5767	0.692	4.214	-2.949	3.555	0.312
387HS300-68(50)	0.0713	0.809	2.75	2.061	1.064	1.596	1.089	0.509	1.160	1.950	1.069	0.969	0.608	29.01	18.21	4704	7068	1.371	5.160	-2.942	3.543	0.310
387HS300-97(50)	0.1017	1.131	3.85	2.822	1.456	1.580	1.478	0.785	1.143	2.817	1.480	1.450	0.848	43.40	25.40	6419	9502	3.899	6.937	-2.929	3.518	0.307
387HS350-54(50)	0.0566	0.705	2.40	1.874	0.967	1.631	1.271	0.449	1.343	1.613	1.186	0.755	0.573	22.62	17.15	3372	6743	0.753	5.987	-3.441	4.038	0.274
387HS350-68(50)	0.0713	0.880	3.00	2.319	1.197	1.623	1.568	0.616	1.335	2.097	1.540	1.009	0.760	30.20	22.75	4704	8405	1.492	7.346	-3.434	4.026	0.272
387HS350-97(50)	0.1017	1.233	4.19	3.184	1.643	1.607	2.138	0.983	1.317	3.032	2.140	1.499	1.063	44.89	31.84	6419	11408	4.249	9.920	-3.421	4.003	0.270
587HS300-33(33)	0.0346	0.470	1.60	2.683	0.913	2.390	0.648	0.335	1.174	1.786	0.503	0.608	0.261	9.16	3.87	652	2047	0.187	5.487	-2.643	3.752	0.504
587HS300-43(33)	0.0451	0.610	2.08	3.473	1.182	2.385	0.835	0.432	1.170	2.846	0.734	0.969	0.382	17.23	7.35	1447	3089	0.414	7.037	-2.631	3.739	0.505
587HS300-54(50)	0.0566	0.762	2.59	4.309	1.467	2.379	1.031	0.412	1.163	3.887	0.953	1.240	0.482	37.13	14.43	2885	5767	0.813	8.663	-2.623	3.727	0.505
587HS300-68(50)	0.0713	0.952	3.24	5.345	1.819	2.370	1.270	0.571	1.155	5.075	1.245	1.670	0.642	49.99	19.22	5350	7068	1.612	10.643	-2.614	3.713	0.504
587HS300-97(50)	0.1017	1.334	4.54	7.378	2.512	2.352	1.728	0.827	1.138	7.346	1.730	2.490	0.898	74.54	26.87	10233	9502	4.600	14.405	-2.595	3.682	0.503
587HS350-54(50)	0.0566	0.818	2.78	4.788	1.630	2.419	1.480	0.500	1.345	4.167	1.377	1.300	0.607	38.93	18.16	2885	6743	0.874	12.342	-3.091	4.149	0.445
587HS350-68(50)	0.0713	1.023	3.48	5.945	2.024	2.411	1.827	0.691	1.337	5.405	1.794	1.727	0.805	51.72	24.10	5350	8405	1.733	15.193	-3.082	4.135	0.445
587HS350-97(50)	0.1017	1.436	4.89	8.225	2.800	2.393	2.499	1.035	1.319	7.780	2.501	2.539	1.128	76.01	33.78	10233	11408	4.951	20.653	-3.063	4.105	0.443
787HS300-43(33)	0.0451	0.701	2.38	6.819	1.732	3.120	0.922	0.446	1.147	5.248	0.805	1.333	0.391	23.70	7.55	1068	3089	0.475	12.520	-2.377	4.087	0.662
787HS300-54(50)	0.0566	0.875	2.98	8.474	2.152	3.113	1.139	0.437	1.141	7.570	1.050	1.789	0.498	35.36	9.84	2125	5767	0.934	15.439	-2.368	4.074	0.662
787HS300-68(50)	0.0713	1.094	3.72	10.532	2.675	3.103	1.404	0.583	1.133	10.028	1.375	2.470	0.663	73.96	19.85	4290	7068	1.854	19.008	-2.358	4.058	0.662
787HS300-97(50)	0.1017	1.538	5.23	14.602	3.708	3.082	1.912	0.838	1.115	14.520	1.915	3.671	0.928	109.90	27.78	10885	9502	5.301	25.843	-2.337	4.025	0.663
787HS350-54(50)	0.0566	0.931	3.17	9.339	2.372	3.167	1.638	0.531	1.326	8.008	1.520	1.844	0.628	55.19	18.81	2125	6743	0.995	21.997	-2.812	4.438	0.599
787HS350-68(50)	0.0713	1.165	3.97	11.617	2.950	3.157	2.023	0.726	1.318	10.614	1.984	2.547	0.834	76.25	24.96	4290	8405	1.975	27.135	-2.802	4.422	0.599
787HS350-97(50)	0.1017	1.639	5.58	16.138	4.099	3.138	2.769	1.048	1.300	15.246	2.772	3.722	1.170	111.45	35.02	10885	11408	5.652	37.046	-2.781	4.390	0.599

Notes: Tables are based on using 2001 AISI NASPEC Code w/2004 supplement (ASD) including Cold Work of Forming per AISI A7.2
 Design for interior sections (-33mil and -43mil) shall be based on Direct Strength Method, with an additional 10% reduction of the allowable loads generated by DSM.
 1. I_{ye}, S_{ye}, May are for a positive moment with the return lips in compression. (Installing the header with the flanges pointing up)
 2. Vay value is for (1) flange, in most header assemblies, both flanges are engaged.

