

## HDSC HEADER BRACKET

Product code	Thickness			ksi	Size (in)	Fits RedHeader PRO system size (in)
	Gauge	Mils	Design thickness (in)			
HDSC-97	12	97	0.1017	50	3-1/2 x 3-1/16 x 2 3-1/2 x 3-9/16 x 2	3-5/8 with 3" Flange 3-5/8 with 3-1/2" Flange
HDSC-97	12	97	0.1017	50	3-7/8 x 3-1/16 x 2 3-7/8 x 3-9/16 x 2	4 with 3" Flange 4 with 3-1/2" Flange
HDSC-97	12	97	0.1017	50	5-7/8 x 3-1/16 x 2 5-7/8 x 3-9/16 x 2	6 with 3" Flange 6 with 3-1/2" Flange
HDSC-97	12	97	0.1017	50	7-7/8 x 3-1/16 x 2 7-7/8 x 3-9/16 x 2	8 with 3" Flange 8 with 3-1/2" Flange

All material G90. Sold in pairs.



## HDSC HEADER BRACKETS ALLOWABLE LOADS (LBS)

Product code	Size (in)	Jamb/Head Gauge			F1 (lbs)		F2 (lbs)	
		Gauge	Mils	Fy	Jamb	Head	Jamb	Head
HDSC-97	3-1/2 3" & 3-1/2" Flange	20	33	33	752	608	752	430
		18	43	33	1120	906	1120	710
		16	54	50	2276	1841	2172	1610
		14	68	50	3108	2514	2172	2172
		12	97	50	3108	2514	2172	2172
HDSC-97	3-7/8 3" & 3-1/2" Flange	20	33	33	752	633	752	430
		18	43	33	1120	943	1120	710
		16	54	50	2276	1917	2276	1610
		14	68	50	3108	2618	2405	2405
		12	97	50	3108	2618	2405	2405
HDSC-97	5-7/8 3" & 3-1/2" Flange	20	33	33	752	638	752	430
		18	43	33	1120	1002	1120	710
		16	54	50	2276	2036	2276	1610
		14	68	50	3108	2780	3108	2413
		12	97	50	3108	2780	3108	3646
HDSC-97	7-7/8 3" & 3-1/2" Flange	20	33	33	752	474	752	430
		18	43	33	1120	1051	1120	710
		16	54	50	2276	2091	2276	1610
		14	68	50	3108	2992	3108	2413
		12	97	50	3108	2992	3108	4504

### Notes:

- Listed capacities are based on AISI S100-12, North American Specification for Cold-Formed Steel Structural Members.
- For HDSC3-97 clips, Screws shall be #12-16 with an ultimate shear capacity per screw of 2330#.
- Table to be used by qualified engineers only.
- To determine the capacity of any given connection, compare the jamb and head values, and use the minimum. For example, if a 16 gauge, 50 ksi jamb is used with a 3.625" HDS 18 gauge, 33 ksi head, the design value for F1 is the minimum value of 2276# for the jamb (HDSC3.5-97), and 906# for the head (HDSC3-97). Therefore, the design value is 906# (HDSC3-68).
- For F1 and F2 occurring at the same time, use the squared interaction equation;  $(f1/F1)^2 + (f2/F2)^2 < 1.0$ .