

HDSC 68mil (14ga) Header Brackets (3" & 3-1/2" Flange)



HDSC HEADER BRACKET

Product code	Thickness			ksi	Size (in)	Fits RedHeader PRO system size (in)
	Gauge	Mils	Design thickness (in)			
HDSC-68	14	68	0.0713	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-68	14	68	0.0713	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-68	14	68	0.0713	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-68	14	68	0.0713	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-68	3-1/2	20	33	33	708	573	708	430
		18	43	33	1052	851	1052	710
	3" & 3-1/2" Flange	16	54	50	2136	1727	1068	1068
		14	68	50	2192	1773	1068	1068
		12	97	50	2192	1773	1068	1068
HDSC-68	3-7/8	20	33	33	708	596	708	430
		18	43	33	1052	886	1052	710
	3" & 3-1/2" Flange	16	54	50	2136	1799	1182	1182
		14	68	50	2192	1846	1182	1182
		12	97	50	2192	1846	1182	1182
HDSC-68	5-7/8	20	33	33	708	633	708	430
		18	43	33	1052	941	1052	710
	3" & 3-1/2" Flange	16	54	50	2136	1910	1792	1610
		14	68	50	2192	1961	1792	1792
		12	97	50	2192	1961	1792	1792
HDSC-68	7-7/8	20	33	33	708	474	708	430
		18	43	33	1052	1013	1052	710
	3" & 3-1/2" Flange	16	54	50	2136	2057	2136	1610
		14	68	50	2192	2110	2192	2402
		12	97	50	2192	2110	2192	2402

Notes:

- Listed capacities are based on AISI S100-12, North American Specification for Cold-Formed Steel Structural Members.
- Screws shall be #10-16, with an ultimate shear capacity per screw of 1644#.
- 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 2136# for the jamb (HDSC3.5-68), and 851# for the head (HDSC3.5-68). Therefore, the design value is 851# (HDSC3.5-68).
- For F1 and F2 occurring at the same time, use the squared interaction equation; $(f1/F1)^2 + (f2/F2)^2 < 1.0$.