



HDSC 33mil (20ga) 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 -33	20	33	0.0346	33	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-33	20	33	0.0346	33	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-33	20	33	0.0346	33	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-33	20	33	0.0346	33	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-33	3" & 3-1/2" Flange	20	33	33	708	573	166	166
		18	43	33	1052	851	166	166
		16	54	50	1466	1466	166	166
		14	68	50	1466	1466	166	166
		12	97	50	1466	1466	166	166
HDSC-33	3" & 3-1/2" Flange	20	33	33	708	596	184	184
		18	43	33	1052	886	184	184
		16	54	50	1695	1695	184	184
		14	68	50	1695	1695	184	184
		12	97	50	1695	1695	184	184
HDSC-33	3" & 3-1/2" Flange	20	33	33	708	633	279	279
		18	43	33	1052	941	279	279
		16	54	50	2136	1910	279	279
		14	68	50	2192	1961	279	279
		12	97	50	2192	1961	279	279
HDSC-33	3" & 3-1/2" Flange	20	33	33	708	474	373	373
		18	43	33	1052	1013	373	373
		16	54	50	2136	2057	373	373
		14	68	50	2192	2110	373	373
		12	97	50	2192	2110	373	373

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 F2 is the minimum value of 166# for the jamb (HDSC3-33), and 166# for the head (HDSC3-33). Therefore, the design value is 166# (HDSC3-33).
- For F1 and F2 occurring at the same time, use the squared interaction equation; $(f1/F1)^2 + (f2/F2)^2 < 1.0$.