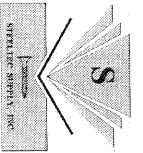


STEEELTEC SUPPLY, INC.



STEEELTEC - EXTRA STRENGTH BACKING (ESB) - WITH 1-INCH FLANGE^{2,3,4,5,6}

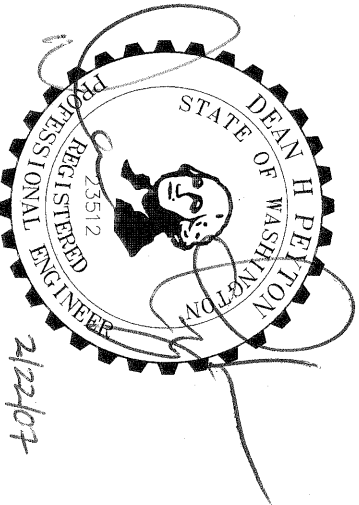
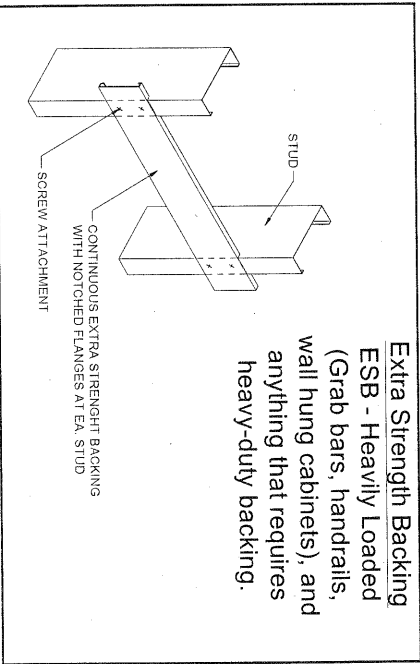
ALLOWABLE SECTION PROPERTIES - PER AISI DESIGN CRITERIA

STEEELTEC ESB MEMBER	GA	MIL	DEPTH (IN)	FLANGE (IN)	Fy (KSI)	Ixe (min) (IN ⁴ 3)	Sxe (min) (IN ⁴ 3)	Iye (min) (IN ⁴ 3)	Sye (min) (IN ⁴ 3)
4-INCH, 20 GA	20	33	4	1.00	33	0.522	0.261	0.033	0.046
4-INCH, 18 GA	18	43	4	1.00	33	0.672	0.336	0.041	0.058
4-INCH, 16 GA	16	54	4	1.00	50	0.823	0.411	0.050	0.070
4-INCH, 14 GA	14	68	4	1.00	50	1.003	0.501	0.059	0.082
6-INCH, 20 GA	20	33	6	1.00	33	1.371	0.445	0.036	0.047
6-INCH, 18 GA	18	43	6	1.00	33	1.816	0.605	0.046	0.060
6-INCH, 16 GA	16	54	6	1.00	50	2.236	0.745	0.056	0.072
6-INCH, 14 GA	14	68	6	1.00	50	2.742	0.914	0.066	0.085
8-INCH, 20 GA ¹	20	33	8	1.00	33	2.687	0.626	0.037	0.047
8-INCH, 18 GA	18	43	8	1.00	33	3.610	0.872	0.048	0.060
8-INCH, 16 GA	15	54	8	1.00	50	4.492	1.092	0.058	0.072
8-INCH, 14 GA	14	68	8	1.00	50	5.690	1.423	0.070	0.086

TABLE NOTES

1. 8-INCH, 20GA MEMBER w/ RATIO EXCEEDS 200. WEB STIFFENERS REQUIRED AT ALL CONCENTRATED LOADS
2. GAUGE THICKNESS TO BE PER SSMA; 33 MIL. = 0.0346", 43 MIL. = 0.0451", 54 MIL. = 0.0566", 68 MIL. = 0.0713"
3. INSIDE CORNER RADIUS AT BENDS TO BE PER SSMA; 33 MIL. R = 0.0764, 43 MIL. R = 0.0712, 54 MIL. R = 0.0849, 68 MIL. R = 0.1069.
4. MEMBER ANALYSIS ASSUMES THAT THE MATERIALS AND PROTECTIVE COATINGS FOR THE COLD-FORMED STEEL USED TO THE MANUFACTURE THE EXTRA STRENGTH BACKING MEMBERS MATCHES THE RELEVANT ASTM REQUIREMENTS USED FOR THE PRODUCTION OF SSMA MEMBERS.
5. ALL CALCULATIONS BASED ON 2004 AISI.
6. THE PROPERTIES INDICATED IN THIS TABLE HAVE BEEN CALCULATED USING CFS VERSION 5.0.2 (RSSG SOFTWARE INC.)

Extra Strength Backing
ESB - Heavily Loaded
 (Grab bars, handrails,
 wall hung cabinets), and
 anything that requires
 heavy-duty backing.



#23512

EXPIRES 4-16-09

