

$F_y = 46 \text{ ksi}$

Table 4-4 (continued)
Available Strength in
Axial Compression, kips
Square HSS



Shape		HSS6×6×										
		$\frac{3}{16}$		$\frac{5}{16}$		$\frac{3}{4}$		$\frac{7}{8}$		$1\frac{1}{8}$		
$t_{\text{design}}, \text{in.}$		0.349		0.291		0.233		0.174		0.116		
lb/ft		27.5		23.3		19.0		14.5		9.86		
Design		P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	
		ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	
Effective length, K_L (ft), with respect to least radius of gyration, r_y	0	209	314	177	266	144	217	110	165	59.6	89.6	
	6	195	293	166	249	135	204	103	155	57.8	86.8	
	7	191	286	162	244	132	199	101	151	57.1	85.8	
	8	185	279	158	237	129	194	98.2	148	56.3	84.6	
	9	180	270	153	230	125	188	95.3	143	55.4	83.3	
	10	173	260	148	222	121	182	92.3	139	54.4	81.8	
	11	167	250	142	214	117	175	89.0	134	53.3	80.1	
	12	160	240	136	205	112	168	85.5	129	52.1	78.3	
	13	152	229	130	196	107	161	81.9	123	50.7	76.2	
	14	145	218	124	187	102	153	78.2	118	49.3	74.0	
	15	137	206	118	177	96.9	146	74.4	112	47.7	71.6	
	16	130	195	111	167	91.8	138	70.5	106	46.0	69.1	
	17	122	183	105	158	86.6	130	66.6	100	44.1	66.3	
	18	114	172	98.4	148	81.4	122	62.7	94.2	42.2	63.4	
	19	107	160	92.0	138	76.2	115	58.8	88.4	40.1	60.2	
	20	99.1	149	85.7	129	71.1	107	55.0	82.7	37.7	56.7	
	21	91.8	138	79.5	120	66.2	99.4	51.2	77.0	35.2	52.9	
	22	84.7	127	73.6	111	61.3	92.1	47.6	71.5	32.7	49.2	
	23	77.8	117	67.7	102	56.6	85.1	44.0	66.2	30.3	45.6	
	24	71.4	107	62.2	93.5	52.0	78.1	40.5	60.9	27.9	42.0	
	25	65.8	98.9	57.3	86.1	47.9	72.0	37.3	56.1	25.8	38.7	
	26	60.8	91.4	53.0	79.6	44.3	66.6	34.5	51.9	23.8	35.8	
	27	56.4	84.8	49.1	73.8	41.1	61.7	32.0	48.1	22.1	33.2	
	28	52.5	78.8	45.7	68.7	38.2	57.4	29.8	44.7	20.5	30.9	
	29	48.9	73.5	42.6	64.0	35.6	53.5	27.7	41.7	19.1	28.8	
	30	45.7	68.7	39.8	59.8	33.3	50.0	25.9	39.0	17.9	26.9	
	32	40.2	60.4	35.0	52.6	29.2	44.0	22.8	34.2	15.7	23.6	
	34	35.6	53.5	31.0	46.6	25.9	38.9	20.2	30.3	13.9	20.9	
	36	31.7	47.7	27.6	41.5	23.1	34.7	18.0	27.1	12.4	18.7	
	38	28.5	42.8	24.8	37.3	20.7	31.2	16.2	24.3	11.1	16.8	
	Properties											
	$A_g, \text{in.}^2$		7.58		8.43		9.24		10.08		10.92	
	$I_y = I_x, \text{in.}^4$		39.5		54.3		68.6		82.3		95.5	
	$r_y = r_x, \text{in.}$		2.28		2.51		2.74		2.97		3.20	
	ASD		LRFD		* Shape is slender for compression with $F_y = 46 \text{ ksi}$.							
	$\Omega_c = 1.67$		$\phi_c = 0.90$									

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Pasquale De Marco



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