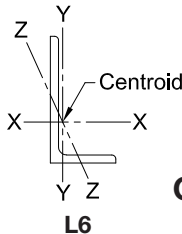


<div><div><p>Centroid</p><p>X</p><p>Y</p><p>Z</p><p>L6</p></div><div><p>Table 4-11 (continued)</p><p>Available Strength in Axial Compression, kips</p><p>Concentrically Loaded Single Angles</p><p>$F_y = 50 \text{ ksi}$</p></div></div>											
Shape		L6×4×				L6×3½×					
		⅜[c]		⅝ ₁₆ [c]		½[c]		⅜[c]		⅝ ₁₆ [c]	
lb/ft		12.3		10.3		15.3		11.7		9.80	
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, L_e (ft), with respect to least radius of gyration, r_z	0	93.5	141	69.6	105	130	195	88.4	133	68.2	102
	1	92.5	139	55.1	82.9	128	192	87.2	131	52.3	78.7
	2	89.4	134	50.9	76.6	122	184	83.5	126	48.2	72.5
	3	84.6	127	49.3	74.0	113	170	77.8	117	46.1	69.3
	4	78.2	118	47.6	71.5	100	151	70.3	106	43.5	65.3
	5	70.7	106	45.1	67.8	85.0	128	61.7	92.8	39.7	59.7
	6	62.4	93.8	41.6	62.5	69.4	104	52.5	78.9	34.9	52.4
	7	53.8	80.9	37.0	55.6	54.6	82.1	42.5	63.8	29.4	44.2
	8	44.4	66.7	31.8	47.8	41.9	63.0	32.7	49.1	24.1	36.2
	9	35.2	52.9	26.7	40.1	33.1	49.8	25.8	38.8	19.7	29.6
	10	28.5	42.9	22.2	33.4	26.8	40.3	20.9	31.4	16.3	24.5
	11	23.6	35.4	18.7	28.1	22.2	33.3	17.3	26.0	13.7	20.6
	12	19.8	29.8	15.9	23.9	18.6	28.0	14.5	21.8	11.7	17.5
	13	16.9	25.4	13.7	20.5						
	14	14.6	21.9	11.9	17.8						
$A_g, \text{in.}^2$		3.61		3.03		4.50		3.44		2.89	
$r_z, \text{in.}$		0.870		0.874		0.756		0.763		0.767	
ASD		LRFD		[c]Shape is slender for compression with $F_y = 50 \text{ ksi}$; tabulated values have been adjusted accordingly. Note: Heavy line indicates L_e/r_z equal to or greater than 200.							
$\Omega_c = 1.67$		$\phi_c = 0.90$									