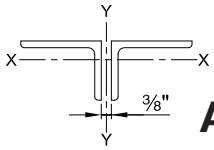

2L6 SLBB

Table 4-10 (continued)
Available Strength in Axial Compression, kips
Double Angles—SLBB

F_y = 36 ksi

Shape			2L6×3 1/2×						No. of connectors[a]
			1/2		3/8[c]		5/16[c]		
lb/ft			30.6		23.4		19.6		
Design			P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	P_n/Ω_c	$\phi_c P_n$	
			ASD	LRFD	ASD	LRFD	ASD	LRFD	
Effective length, L_c (ft), with respect to indicated axis	X-X Axis	0	194	292	136	205	106	160	b
		1	192	289	135	204	106	159	
		2	188	282	133	200	104	156	
		3	180	271	129	194	101	151	
		4	170	256	123	185	96.4	145	
		5	158	238	116	175	91.2	137	
		6	145	218	109	163	85.3	128	
		7	131	196	99.9	150	78.7	118	
		8	116	174	89.9	135	71.7	108	
		9	101	151	78.7	118	64.5	96.9	
		10	86.4	130	67.8	102	57.2	85.9	
		11	72.7	109	57.5	86.4	49.0	73.6	
		12	61.1	91.9	48.3	72.6	41.1	61.8	
		13	52.1	78.3	41.1	61.8	35.1	52.7	
		14	44.9	67.5	35.5	53.3	30.2	45.4	
		15	39.1	58.8	30.9	46.4	26.3	39.6	
		16	34.4	51.7	27.2	40.8	23.1	34.8	
	Y-Y Axis	0	194	292	136	205	106	160	5
		6	166	249	109	164	78.1	117	
		8	165	248	109	164	78.0	117	
		10	165	248	109	164	77.9	117	
		12	163	246	109	163	77.7	117	
		14	160	240	108	162	77.5	116	
		16	150	225	106	159	76.8	115	
		18	141	212	103	154	75.7	114	
		20	131	197	97.5	146	73.5	111	
		22	121	182	90.9	137	70.1	105	
		24	111	167	83.5	125	65.8	98.9	
		26	101	152	75.9	114	61.1	91.8	
		28	91.0	137	68.5	103	56.1	84.4	
		30	81.5	122	61.2	92.1	50.4	75.8	
		32	72.2	109	54.2	81.5	44.7	67.1	
		34	64.0	96.2	48.1	72.4	39.7	59.7	
		38	51.3	77.1	38.6	58.1	31.9	48.0	
		42	42.0	63.2	31.7	47.6	26.2	39.4	
		46	35.1	52.7	26.5	39.8	21.9	32.9	
		48	32.2	48.4	24.3	36.5	20.1	30.3	
Properties of 2 angles—3/8 in. back to back									
A_g, in.^{2}			9.00		6.88		5.78		
r_x, in.			0.968		0.984		0.991		
r_y, in.			2.96		2.94		2.92		
Properties of single angle									
r_z, in.			0.756		0.763		0.767		

ASD	LRFD
$\Omega_c = 1.67$	$\phi_c = 0.90$

[a] For Y-Y axis, welded or pretensioned bolted intermediate connectors with Class A or B faying surfaces must be used.
[b] For required number of intermediate connectors, see the discussion of Table 4-8.
[c] Shape is slender for compression with F_y = 36 ksi; tabulated values have been adjusted accordingly.