

		Table 4-10 (continued) Available Strength in Axial Compression, kips Double Angles—SLBB												$F_y = 50 \text{ ksi}$	
2L5 SLBB															
Shape		2L5x3 <sup>1</sup> / <sub>2</sub> x												No. of Connectors <sup>[a]</sup>	
		<sup>3</sup> / <sub>4</sub>		<sup>5</sup> / <sub>8</sub>		<sup>1</sup> / <sub>2</sub>		<sup>3</sup> / <sub>8</sub> [c]		<sup>5</sup> / <sub>16</sub> [c]		<sup>1</sup> / <sub>4</sub> [c]			
lb/ft		39.6		33.6		27.2		20.8		17.4		14.0			
Design		$P_n/\Omega_c$ $\phi_c P_n$		$P_n/\Omega_c$ $\phi_c P_n$		$P_n/\Omega_c$ $\phi_c P_n$		$P_n/\Omega_c$ $\phi_c P_n$		$P_n/\Omega_c$ $\phi_c P_n$		$P_n/\Omega_c$ $\phi_c P_n$			
		ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD		
Effective length, $L_c$ (ft), with respect to indicated axis	X-X Axis	0	350	527	295	444	240	360	170	256	132	198	91.3	137	[b]
		1	346	521	292	439	237	356	169	254	131	197	90.7	136	
		2	335	504	283	425	230	345	165	247	128	193	89.1	134	
		3	317	476	268	403	218	327	158	237	124	186	86.3	130	
		4	293	441	248	373	202	304	149	224	117	175	82.6	124	
		5	265	399	225	339	184	277	138	208	108	163	78.0	117	
		6	235	353	200	301	164	246	126	189	99.1	149	72.6	109	
		7	203	306	174	261	143	215	111	167	89.0	134	66.6	100	
		8	172	259	148	222	122	184	95.6	144	78.5	118	59.2	89.0	
		9	143	214	123	185	102	153	80.5	121	67.5	102	51.6	77.6	
		10	116	174	100	151	83.5	126	66.2	99.6	55.6	83.6	44.1	66.3	
		11	95.7	144	82.9	125	69.0	104	54.7	82.3	46.0	69.1	37.6	56.6	
		12	80.5	121	69.6	105	58.0	87.2	46.0	69.1	38.6	58.0	31.8	47.9	
		13	68.6	103	59.3	89.2	49.4	74.3	39.2	58.9	32.9	49.4	27.1	40.8	
		14	59.1	88.8	51.2	76.9	42.6	64.0	33.8	50.8	28.4	42.6	23.4	35.2	
		15	51.5	77.4	44.6	67.0	37.1	55.8	29.4	44.3	24.7	37.1	20.4	30.6	
		16	45.3	68.0	39.2	58.9	32.6	49.0	25.9	38.9	21.7	32.6	17.9	26.9	
		17							22.9	34.5	19.2	28.9	15.9	23.8	
	Y-Y Axis	0	350	527	295	444	240	360	170	256	132	198	91.3	137	4
		1	330	496	272	408	211	317	142	214	104	156	67.1	101	
		2	326	491	268	402	206	310	138	207	99.0	149	63.0	94.6	
		4	325	488	266	400	204	307	136	204	97.5	146	61.6	92.5	
		6	322	484	264	397	203	306	135	203	96.9	146	61.2	91.9	
		8	311	467	258	388	201	302	134	202	96.4	145	60.8	91.4	
		10	293	440	245	368	194	291	133	200	95.6	144	60.4	90.8	
		12	272	408	227	342	181	272	129	194	94.0	141	59.8	89.9	
		14	240	360	200	301	160	240	118	177	89.2	134	58.3	87.6	
		16	214	321	178	268	142	214	105	158	82.5	124	55.9	84.0	
		18	187	282	156	235	124	187	92.1	138	74.4	112	52.0	78.2	
		20	162	244	135	203	107	161	79.2	119	64.9	97.6	46.9	70.5	
		22	138	207	114	172	90.5	136	66.7	100	54.8	82.4	41.3	62.1	
		24	116	174	96.3	145	76.2	115	56.3	84.7	46.5	69.8	36.3	54.5	
		26	99.0	149	82.1	123	65.0	97.7	48.2	72.4	39.8	59.8	31.3	47.1	
		28	85.4	128	70.8	106	56.1	84.4	41.6	62.6	34.5	51.8	27.2	40.9	
		30	74.4	112	61.7	92.8	48.9	73.6	36.3	54.6	30.1	45.3	23.9	35.9	
		32	65.4	98.3	54.3	81.6	43.0	64.7	32.0	48.1	26.5	39.9	21.1	31.7	
		34	58.0	87.1	48.1	72.3	38.2	57.3	28.4	42.6	23.5	35.4	18.7	28.2	
		36	51.7	77.7	42.9	64.5	34.0	51.2	25.3	38.1	21.0	31.6	16.8	25.2	
		38	46.4	69.8	38.5	57.9	30.6	45.9	22.7	34.2	18.9	28.4	15.1	22.7	
Properties of 2 angles— <sup>3</sup> / <sub>8</sub> in. back to back															
$A_g$ , in. <sup>2</sup>		11.7		9.86		8.00		6.10		5.12		4.14			
$r_x$ , in.		0.974		0.987		1.00		1.02		1.02		1.03			
$r_y$ , in.		2.47		2.45		2.42		2.39		2.38		2.37			
Properties of single angle															
$r_z$ , in.		0.744		0.746		0.750		0.755		0.758		0.761			
ASD		LRFD		<sup>[a]</sup> For Y-Y axis, welded or pretensioned bolted intermediate connectors with Class A or B faying surfaces must be used.											
				<sup>[b]</sup> For required number of intermediate connectors, see the discussion of Table 4-8.											
$\Omega_c = 1.67$		$\phi_c = 0.90$		<sup>[c]</sup> Shape is slender for compression with $F_y = 50 \text{ ksi}$ ; tabulated values have been adjusted accordingly. Note: Heavy line indicates $L_c/r$ equal to or greater than 200.											