

Beam Type	US Sections - Center Beam Supporting One Floor										
	Tributary Span, ft										
	8		12		16		20		24		
	Maximum Unsupported Beam Span, ft										
	12		10		12		8		10		8
<b>LSB</b>	800LSB250-79	800LSB250-59	1000LSB300-79	800LSB250-59	800LSB250-98	800LSB250-79	1000LSB300-79	800LSB250-79	1000LSB300-98	800LSB250-79	
<b>Steel I-Beam</b>	W8x13	W8x13	W8x13	W8x13	W8x13	W8x13	W8x13	W8x13	W8x13	W8x13	
<b>CFS Back-to-Back</b>	(2) 1000S162-54	(2) 1000S162-68	(2) 1200S162-68	(2) 1000S162-68	(2) 1200S162-97	(2) 1000S162-68	(2) 1200S162-97	(2) 1000S162-97	(2) 1200S162-97	(2) 1000S162-97	
<b>CFS Box-Beam</b>	(2) 800S162-97	(2) 800S162-97	(2) 1000S162-118	(2) 800S162-97	(2) 1000S162-118	(2) 1000S200-118	None	(2) 1000S200-118	None	None	
<b>LVL</b>	(2) 1-3/4"x11-1/4"	(2) 1-3/4"x9-1/4"	(2) 1-3/4"x11-1/4"	(2) 1-3/4"x9-1/4"	(2) 1-3/4"x9-1/2"	(2) 1-3/4"x9-1/4"	(2) 1-3/4"x11-1/4"	(2) 1-3/4"x9-1/4"	(2) 1-3/4"x14"	(2) 1-3/4"x11-1/4"	
<b>Sawn Lumber SPF #2</b>	(4) 2x12	(3) 2x12	(2) 4x14	(3) 2x12	(2) 4x14 (5) 2x12	(1) 4x14 (4) 2x12	(2) 4x14	(2) 4x14 (4) 2x12	(2) 4x16	(2) 4x14	
<b>Sawn Lumber Douglas Fir</b>	(4) 2x12	(3) 2x12	(2) 4x14	(3) 2x12	(2) 4x14 (5) 2x12	(1) 4x14 (3) 2x12	(2) 4x14	(2) 4x14 (4) 2x12	(2) 4x16	(2) 4x14	

Notes:

1. Floor live load = 40 psf
2. Floor dead load = 15 psf
3. Deflection limit: L/360 for live loads and L/240 for total loads
4. Steel I-beams, CFS, and LSB have minimum yield strength of 50 ksi
5. LVLs have 1.9E and Fe = 2.6 ksi
6. LSB is assumed to have full lateral support.