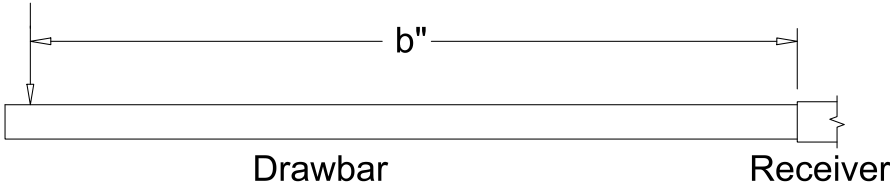


P=Load in pounds



BEAM #21 -- Cantilever Beam -- Concentrated Load at any Point

P -- Load in Pounds

b -- Distance to Load P (Inches)

DRAWBAR	b=Distance (Inches) beyond Receiver Vertical Load is applied to DrawBar												Section		Efficiency S.Mod/lb
	36	33	30	27	24	21	18	15	12	9	6	3	Modulus	PCF	
Max. Vertical Load (lbs.) to Drawbar per Cantilever Beam #21-Manual of Steel Construction															
1.25" Sq. Solid	199	217	239	265	298	341	398	477	597	796	1,194	2,387	0.3255	5.31	0.061
2" Sq. Solid	815	889	978	1,086	1,222	1,396	1,629	1,955	2,444	3,258	4,888	9,775	1.3330	13.600	0.098
2" Sq. Tube 1/4" wall	557	608	668	743	836	955	1,114	1,337	1,671	2,228	3,342	6,684	0.9115	5.950	0.153
2" Sq. Tube 3/16" wall	460	502	552	613	690	788	919	1,103	1,379	1,839	2,758	5,517	0.7523	4.622	0.163
2" Sq. Tube 1/8" wall	339	370	407	452	509	582	679	814	1,018	1,357	2,036	4,071	0.5552	3.188	0.174
2.5" Sq. Solid	1,591	1,736	1,910	2,122	2,387	2,728	3,183	3,819	4,774	6,366	9,549	19,097	2.6042	21.250	0.123
2.5" Sq. Tube 5/16" wall	1,088	1,187	1,305	1,451	1,632	1,865	2,176	2,611	3,264	4,352	6,527	13,055	1.7802	9.297	0.191
2.5" Sq. Tube 1/4" wall	940	1,025	1,128	1,253	1,409	1,611	1,879	2,255	2,819	3,758	5,638	11,275	1.5375	7.650	0.201
2.5" Sq. Tube 3/16" wall	761	830	913	1,014	1,141	1,304	1,521	1,826	2,282	3,043	4,564	9,128	1.2448	5.897	0.211
2.5" Sq. Tube 1/8" wall	547	597	657	730	821	938	1,095	1,314	1,642	2,189	3,284	6,568	0.8956	4.038	0.222
3" Sq. Solid	2,750	3,000	3,300	3,667	4,125	4,714	5,500	6,600	8,250	11,000	16,500	33,000	4.5000	30.600	0.147