

TABLE N-2
FLITCH PLATE BEAMS - DESIGN VALUES & ASSUMPTIONS

STEEL Fb=24000 psi E=29000000(psi)
 WOOD Fb=12000 psi E=16000000(psi)
 DEFLECT I/360
 (TOP OF BEAM Laterally Supported)

APPENDIX N

2-2x6		ALLOWABLE LOAD (Pounds / Ft)											
1 PLATE	Bm Wgt (lbs/ft)	8		10		13		15		17		21	
		Span	Plate	1/4x5		3/8x5		1/2x5		5/8x5		3/4x5	
		plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.
6.00		756	2268	965	2895	1175	3525	1385	4155	1595	4785	2014	6042
7.00		555	1942.5	709	2481.5	863	3020.5	1018	3563	1172	4102	1480	5180
8.00		411 *	1644	520 *	2080	638 *	2552	739 *	2956	848 *	3392	1067 *	4268
9.00		289 *	1300.5	365 *	1642.5	442 *	1989	519 *	2335.5	596 *	2682	749 *	3370.5
10.00		210 *	1050	266 *	1330	322 *	1610	378 *	1890	434 *	2170	546 *	2730
11.00		158 *	869	200 *	1100	242 *	1331	284 *	1562	326 *	1793	410 *	2255
12.00		122 *	732	154 *	924	187 *	1122	219 *	1314	251 *	1506	316 *	1896

2-2x8		ALLOWABLE LOAD (Pounds / Ft)											
1 PLATE	Bm Wgt (lbs/ft)	11		14		17		20		23		29	
		Span	Plate	1/4x7		3/8x7		1/2x7		5/8x7		3/4x7	
		plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.
6.00		1406	4218	1818	5454	2229	6687	2640	7920	3051	9153	3873	11619
7.00		1033	3615.5	1335	4672.5	1637	5729.5	139	486.5	2242	7847	2846	9961
8.00		791	3164	1022	4088	1254	5016	1485	5940	1716	6864	2179	8716
9.00		625	2812.5	808	3636	991	4459.5	1173	5278.5	1356	6102	1722	7749
10.00		506	2530	654	3270	802	4010	950	4750	1098	5490	1394	6970
11.00		400 *	2200	516 *	2838	631 *	3470.5	746 *	4103	862 *	4741	1092 *	6006
12.00		308 *	1848	397 *	2382	486 *	2916	575 *	3450	664 *	3984	841 *	5046
13.00		243 *	1579.5	312 *	2028	382 *	2483	452 *	2938	522 *	3393	662 *	4303
14.00		194 *	1358	250 *	1750	306 *	2142	362 *	2534	418 *	2926	530 *	3710
15.00		158 *	1185	203 *	1522.5	249 *	1867.5	294 *	2205	340 *	2550	431 *	3232.5
16.00		130 *	1040	168 *	1344	205 *	1640	243 *	1944	280 *	2240	355 *	2840

2-2x10		ALLOWABLE LOAD (Pounds / Ft)											
1 PLATE	Bm Wgt (lbs/ft)	14		18		22		26		30		37	
		Span	Plate	1/4x9		3/8x9		1/2x9		5/8x9		3/4x9	
		plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.
6.00		2310	6930	2990	8970	3669	11007	4349	13047	5029	15087	6388	19164
7.00		1697	5939.5	2197	7689.5	2696	9436	3195	11182.5	3695	12932.5	4693	16425.5
8.00		1299	5196	1682	6728	2064	8256	2446	9784	2829	11316	3593	14372
9.00		1027	4621.5	1329	5980.5	1631	7339.5	1933	8698.5	2235	10057.5	2839	12775.5
10.00		832	4160	1076	5380	1321	6605	1566	7830	1810	9050	2300	11500
11.00		687	3778.5	890	4895	1092	6006	1294	7117	1496	8228	1901	10455.5
12.00		576	3456	747	4482	917	5502	1087	6522	1257	7542	1597	9582
13.00		492	3198	637	4140.5	782	5083	926	6019	1071	6961.5	1361	8846.5
14.00		409 *	2863	528 *	3696	647 *	4529	765 *	5355	884 *	6188	1122 *	7854
15.00		332 *	2490	429 *	3217.5	526 *	3945	622 *	4665	719 *	5392.5	912 *	6840
16.00		274 *	2192	353 *	2824	433 *	3464	513 *	4104	592 *	4736	752 *	6016
17.00		228 *	1938	295 *	2507.5	361 *	3068.5	427 *	3629.5	494 *	4199	627 *	5329.5
18.00		192 *	1728	248 *	2232	304 *	2736	360 *	3240	416 *	3744	528 *	4752
19.00		164 *	1558	211 *	2004.5	259 *	2460.5	306 *	2907	354 *	3363	449 *	4265.5
20.00		140 *	1400	181 *	1810	222 *	2220	263 *	2630	303 *	3030	385 *	3850

2-2x12		ALLOWABLE LOAD (Pounds / Ft)											
1 PLATE	Bm Wgt (lbs/ft)	18		22		27		32		36		46	
		Span	Plate	1/4x11		3/8x11		1/2x11		5/8x11		3/4x11	
		plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.	plf	end react.
6.00		3437	10311	4452	13356	5468	16404	6483	19449	7498	22494	9529	28587
7.00		2525	8837.5	3271	11448.5	4017	14059.5	4763	16670.5	5509	19281.5	7001	24503.5
8.00		1933	7732	2504	10016	3076	12304	3647	14588	4218	16872	5360	21440
9.00		1528	6876	1979	8905.5	2430	10935	2881	12964.5	3333	14998.5	4235	19057.5
10.00		1237	6185	1603	8015	1968	9840	2334	11670	2699	13495	3430	17150
11.00		1023	5626.5	1325	7287.5	1627	8948.5	1929	10609.5	2231	12270.5	2835	15592.5
12.00		859	5154	1113	6678	1367	8202	1621	9726	1875	11250	2382	14292
13.00		732	4758	948	6162	1165	7572.5	1381	8976.5	1597	10380.5	2030	13195
14.00		631	4417	818	5726	1004	7028	1191	8337	1377	9639	1750	12250
15.00		550	4125	712	5340	875	6562.5	1037	7777.5	1200	9000	1525	11437.5
16.00		483	3864	626	5008	769	6152	912	7296	1054	8432	1340	10720
17.00		414 *	3519	535 *	4547.5	657 *	5584.5	778 *	6613	899 *	7641.5	1142 *	9707
18.00		349 *	3141	451 *	4059	553 *	4977	655 *	5895	757 *	6813	962 *	8658
19.00		297 *	2821.5	384 *	3648	470 *	4465	557 *	5291.5	644 *	6118	818 *	7771
20.00		254 *	2540	329 *	3290	403 *	4030	478 *	4780	552 *	5520	701 *	7010
21.00		220 *	2310	284 *	2982	348 *	3654	413 *	4336.5	477 *	5008.5	606 *	6363
22.00		191 *	2101	247 *	2717	303 *	3333	359 *	3949	415 *	4565	527 *	5797
23.00		167 *	1920.5	216 *	2484	265 *	3047.5	314 *	3611	363 *	4174.5	461 *	5301.5
24.00		147 *	1764	190 *	2280	233 *	2796	276 *	3312	320 *	3840	406 *	4872

* Denotes Load Controlled by Deflection.