

Material: Extruded Aluminum 6063 per ASTM B221  
 F<sub>s</sub> = 12,000 psi  
 E = 10,000,000 psi  
 Bearing bars spaced 1.2" on center  
 # of bearing bars per foot = 10

## Harsco Industrial IKG

a harsco company

### Type HD Heavy Duty Aluminum Plank

#### ALUMINUM SAFE LOAD TABLE

U = Uniform load in pounds per square foot  
 D = Deflection in inches  
 C = Concentrated load at mid span in pounds per foot of width

Maximum span for 1/4" deflection under a uniform load of 100 psf		SPAN IN INCHES																			
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
HD-20 DEPTH 3/4 S <sup>3</sup> /ft 0.1920 I <sup>4</sup> /ft 0.0920	38	U	1536	683	384	246	171	125	96	76	61	51	43	36	31	27	24	21	19	17	15
		D	0.038	0.085	0.150	0.235	0.339	0.459	0.601	0.762	0.932	1.141	1.363	1.572	1.820	2.089	2.404	2.681	3.049	3.386	3.668
		C	768	512	384	307	256	219	192	171	154	140	128	118	110	102	96	90	85	81	77
		D	0.030	0.068	0.120	0.188	0.270	0.367	0.481	0.610	0.753	0.911	1.082	1.268	1.476	1.684	1.923	2.163	2.425	2.718	3.013
HD-30 DEPTH 1 S <sup>3</sup> /ft 0.3960 I <sup>4</sup> /ft 0.2320	48	U	3168	1408	792	507	352	259	198	156	127	105	88	75	65	56	50	44	39	35	32
		D	0.031	0.069	0.123	0.192	0.277	0.377	0.492	0.620	0.770	0.932	1.106	1.298	1.514	1.718	1.986	2.228	2.482	2.765	3.103
		C	1584	1056	792	634	528	453	396	352	317	288	264	244	226	211	198	186	176	167	158
		D	0.025	0.055	0.098	0.154	0.221	0.301	0.393	0.498	0.615	0.744	0.885	1.040	1.203	1.381	1.573	1.772	1.991	2.222	2.452
HD-40 DEPTH 1 1/4 S <sup>3</sup> /ft 0.7360 I <sup>4</sup> /ft 0.4960	58	U	5888	2617	1472	942	654	481	368	291	236	195	164	139	120	105	92	81	73	65	59
		D	0.027	0.060	0.107	0.167	0.240	0.327	0.427	0.541	0.669	0.809	0.964	1.126	1.307	1.507	1.709	1.918	2.173	2.402	2.676
		C	2944	1963	1472	1178	981	841	736	654	589	535	491	453	421	393	368	346	327	310	294
		D	0.021	0.048	0.085	0.134	0.192	0.262	0.342	0.433	0.534	0.646	0.770	0.903	1.048	1.203	1.368	1.542	1.730	1.929	2.134
HD-50 DEPTH 1 1/2 S <sup>3</sup> /ft 1.1160 I <sup>4</sup> /ft 0.9000	67	U	8928	3968	2232	1428	992	729	558	441	357	295	248	211	182	159	140	124	110	99	89
		D	0.022	0.050	0.089	0.139	0.201	0.273	0.357	0.452	0.558	0.675	0.804	0.942	1.092	1.258	1.434	1.618	1.804	2.016	2.225
		C	4464	2976	2232	1786	1488	1275	1116	992	893	812	744	687	638	595	558	525	496	470	446
		D	0.018	0.040	0.071	0.112	0.161	0.219	0.286	0.362	0.447	0.540	0.643	0.755	0.875	1.004	1.143	1.290	1.446	1.612	1.784
HD-60 DEPTH 1 3/4 S <sup>3</sup> /ft 1.4680 I <sup>4</sup> /ft 1.3400	75	U	11744	5220	2936	1879	1305	959	734	580	470	388	326	278	240	209	184	163	145	130	117
		D	0.020	0.044	0.079	0.123	0.177	0.242	0.316	0.399	0.493	0.596	0.709	0.833	0.968	1.110	1.265	1.429	1.597	1.778	1.965
		C	5872	3915	2936	2349	1957	1678	1468	1305	1174	1068	979	903	839	783	734	691	652	618	587
		D	0.016	0.035	0.063	0.099	0.142	0.193	0.252	0.319	0.394	0.477	0.568	0.666	0.773	0.887	1.010	1.140	1.277	1.423	1.577
HD-70 DEPTH 2 S <sup>3</sup> /ft 1.8540 I <sup>4</sup> /ft 1.9600	82	U	14832	6592	3708	2373	1648	1211	927	732	593	490	412	351	303	264	232	205	183	164	148
		D	0.017	0.038	0.068	0.106	0.153	0.209	0.272	0.345	0.425	0.515	0.613	0.719	0.835	0.959	1.091	1.228	1.378	1.533	1.699
		C	7416	4944	3708	2966	2472	2119	1854	1648	1483	1348	1236	1141	1059	989	927	872	824	781	742
		D	0.014	0.031	0.054	0.085	0.123	0.167	0.218	0.276	0.340	0.412	0.490	0.576	0.667	0.766	0.872	0.984	1.103	1.230	1.363
HD-80 DEPTH 2 1/4 S <sup>3</sup> /ft 2.3400 I <sup>4</sup> /ft 2.7080	89	U	18720	8320	4680	2995	2080	1528	1170	924	749	619	520	443	382	333	293	259	231	207	187
		D	0.016	0.035	0.062	0.097	0.140	0.191	0.249	0.315	0.389	0.471	0.560	0.657	0.762	0.875	0.997	1.123	1.259	1.401	1.554
		C	9360	6240	4680	3744	3120	2674	2340	2080	1872	1702	1560	1440	1337	1248	1170	1101	1040	985	936
		D	0.012	0.028	0.050	0.078	0.112	0.152	0.199	0.252	0.311	0.376	0.448	0.526	0.610	0.700	0.796	0.899	1.008	1.123	1.244
HD-90 DEPTH 2 1/2 S <sup>3</sup> /ft 3.1240 I <sup>4</sup> /ft 3.9200	97	U	24992	11108	6248	3999	2777	2040	1562	1234	1000	826	694	592	510	444	391	346	309	277	250
		D	0.014	0.032	0.057	0.090	0.129	0.176	0.230	0.290	0.359	0.434	0.516	0.607	0.703	0.806	0.919	1.037	1.164	1.295	1.435
		C	12496	8331	6248	4998	4165	3570	3124	2777	2499	2272	2083	1922	1785	1666	1562	1470	1388	1315	1250
		D	0.011	0.026	0.046	0.072	0.103	0.141	0.184	0.232	0.287	0.347	0.413	0.485	0.562	0.645	0.734	0.829	0.929	1.035	1.148