

ALUMINUM PLANK—HD & HD RS SERIES											LOAD TABLE											
Height	Ped Span Inches		Clear Span										U = safe uniform load, lb./sq. ft. C = safe concentrated load, lb/ft of grating width at mid span D = deflection in inches	Loads and deflections given in this table are theoretical, and are based on a unit stress of 12,000 psi.								
			2'0"	2'6"	3'0"	3'6"	4'0"	4'6"	5'0"	5'6"	6'0"	6'6"			7'0"	8'0"						
3/4"	39"	U	435	278	193	142	108	85	69	57	48	41	35	30	26	22	19	16	14	12	10	
		D	.121	.237	.342	.465	.608	.770	.950	1.14	1.34	1.54	1.74	1.94	2.14	2.34	2.54	2.74	2.94	3.14	3.34	3.54
HD20	39"	C	435	348	290	248	217	193	174	154	134	114	94	74	54	34	14	14	14	14	14	14
		D	.121	.190	.273	.371	.485	.614	.760	.91	1.07	1.23	1.39	1.55	1.71	1.87	2.03	2.19	2.35	2.51	2.67	2.83
1"	49"	U	833	533	370	272	208	164	133	110	92	77	64	53	44	36	29	24	20	17	14	12
		D	.124	.193	.279	.380	.496	.628	.775	.938	1.117	1.30	1.49	1.68	1.87	2.06	2.25	2.44	2.63	2.82	3.01	3.20
HD30	49"	C	833	666	555	476	416	370	333	302	277	252	227	202	177	152	127	102	77	52	27	2
		D	.099	.155	.223	.304	.396	.502	.620	.748	.891	1.04	1.19	1.34	1.49	1.64	1.79	1.94	2.09	2.24	2.39	2.54
1-1/4"	58"	U	1464	936	650	478	366	289	234	193	162	138	119	101	85	71	59	49	41	34	28	23
		D	.107	.167	.241	.328	.428	.542	.669	.810	.964	1.131	1.312	1.50	1.69	1.88	2.07	2.26	2.45	2.64	2.83	3.02
HD40	58"	C	1464	1171	976	836	732	650	585	532	488	450	418	386	354	322	290	258	226	194	162	130
		D	.085	.133	.192	.262	.342	.433	.535	.647	.771	.904	1.049	1.204	1.359	1.514	1.669	1.824	1.979	2.134	2.289	2.444
1-1/2"	67"	U	2167	1387	963	707	541	428	346	286	240	205	176	151	127	105	87	72	60	50	42	35
		D	.090	.141	.203	.277	.362	.458	.566	.684	.815	.956	1.109	1.271	1.434	1.597	1.760	1.923	2.086	2.249	2.412	2.575
HD50	67"	C	2167	1734	1445	1238	1083	963	867	788	722	666	619	571	524	477	430	383	336	289	242	195
		D	.072	.113	.163	.221	.289	.366	.452	.547	.651	.764	.887	1.01	1.13	1.25	1.37	1.49	1.61	1.73	1.85	1.97
1-3/4"	75"	U	2992	1915	1330	977	748	591	478	395	332	283	244	205	171	141	114	93	77	64	53	44
		D	.078	.123	.177	.241	.315	.398	.492	.595	.708	.832	.964	1.106	1.248	1.391	1.533	1.675	1.817	1.959	2.101	2.243
HD60	75"	C	2992	2394	1995	1710	1496	1330	1197	1088	997	920	855	790	725	660	595	530	465	400	335	270
		D	.062	.098	.141	.192	.251	.318	.393	.476	.566	.664	.771	0.888	1.005	1.122	1.239	1.356	1.473	1.590	1.707	1.824
2"	83"	U	3975	2544	1766	1298	993	785	636	525	441	376	324	278	232	186	140	114	94	78	65	54
		D	.069	.108	.156	.212	.277	.351	.433	.524	.624	.732	.849	0.976	1.103	1.230	1.357	1.484	1.611	1.738	1.865	1.992
HD70	83"	C	3975	3180	2650	2271	1987	1766	1590	1445	1325	1223	1135	1057	979	901	823	745	667	589	511	433
		D	.055	.086	.124	.169	.221	.280	.346	.419	.499	.586	.679	.771	.864	.957	1.050	1.143	1.236	1.329	1.422	1.515
2-1/4"	91"	U	5109	3270	2270	1668	1277	1009	817	675	567	483	417	359	301	243	185	147	119	97	80	66
		D	.061	.095	.137	.187	.244	.309	.382	.462	.550	.646	.749	.852	.955	1.058	1.161	1.264	1.367	1.470	1.573	1.676
HD80	91"	C	5109	4087	3406	2919	2554	2270	2043	1858	1703	1572	1459	1346	1233	1120	1007	894	781	668	555	442
		D	.048	.076	.110	.149	.195	.247	.305	.370	.440	.517	.599	.681	.763	.845	.927	1.009	1.091	1.173	1.255	1.337
2-1/2"	97"	U	5971	3821	2654	1949	1492	1179	955	789	663	565	487	417	354	291	228	175	132	109	91	75
		D	.055	.086	.124	.169	.221	.279	.345	.418	.497	.584	.677	.770	.863	.956	1.049	1.142	1.235	1.328	1.421	1.514
HD90	97"	C	5971	4777	3981	3412	2985	2654	2388	2171	1990	1837	1706	1585	1464	1343	1222	1101	980	859	738	617
		D	.044	.069	.099	.135	.176	.223	.276	.334	.398	.467	.541	.615	.689	.763	.837	.911	.985	1.059	1.133	1.207

NOTE: Spans in the shaded area produce a deflection 1/4" or less under a uniform load of 100 lbs./sq. ft. This is the maximum deflection to afford pedestrian comfort. The actual Ped (pedestrian) Span under this condition is shown in load table for each size of grating.