

NAME & NO.	DEPTH (mm)	PED MAX	LBS./LF (kg/m)			LOAD/ DEFLECT	CLEAR SPAN																						
			REC-VT	SQ-VT	SOLID		12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	96"	102"	108"	114"	120"				
HD-20	3/4" (19.1)	38"	0.85 (1.26)	0.90 (1.34)	1.05 (1.56)	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	1" (25.4)	48"	1.10 (1.64)	1.15 (1.71)	1.30 (1.93)	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	1-1/4" (31.8)	58"	1.40 (2.08)	1.50 (2.23)	1.65 (2.46)	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	1-1/2" (38.1)	67"	1.70 (2.53)	1.80 (2.68)	1.95 (2.90)	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	1-3/4" (44.5)	7"5	1.90 (2.83)	2.00 (2.97)	2.15 (3.20)	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	2" (50.8)	82"	2.15 (3.20)	2.25 (3.35)	2.40 (3.57)	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	2-1/4" (57.2)	89"	2.35 (3.50)	2.45 (3.65)	2.55 (3.79)	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	2-1/2" (63.5)	97"	2.50 (3.72)	2.60 (3.87)	2.70 (4.02)	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				

U - Uniform Load - Lbs./Sf. D - Deflection in Inches C - Concentrated Load - Lbs./Ft. of Width at Mid Span | Load table values based on the rectangular-vented surface profile. Loading information based on 10 legs (1.2" on center) per foot of Grating width. Loading and deflection values are theoretical and based on a maximum allowable Fiber stress (Fs) of 12,000 PSI. Elastic Modulus (E) is 10,000,000 PSI. Spans listed in table are clear (inside structural supports). Span and loading values to the left of the bolded black line produce a deflection of 1/4" or less under a uniform load of 100 Lbs./Sf., allowing for safe pedestrian comfort. The resulting pedestrian maximum spans under this condition are listed in the PED MAX column. Span and loading values to the right of the bolded black line are applicable to other types of loads at the discretion of a licensed engineer. Technical information provided is theoretical and for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. McNichols shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Plank Grating.

♿ Solid surface profile qualifies for use in ADA compliant applications when installed using multiple pieces to width regardless of the direction of travel.