

DIAMONDBACK® DECKPLATE – 12"											LOAD TABLE				
Height		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"
3/4"	U	803	514	357	262	201	158	128	U = Uniform load, pounds per square foot D = Deflection in inches C = Concentrated load, lb./foot grating width Loads and deflections given in this table are theoretical and are based on a tensile bending stress of 19,000 PSI. The specifier is responsible for verifying conformance of this product with applicable codes associated with its intended use.						
	D	.26	.406	.585	.796	1.042	1.311	1.619							
	C	803	643	535	459	401	357	321							
	D	.208	.325	.468	.678	.831	1.054	1.299							
1"	U	1328	850	590	433	332	262	212	175	147	Spans in shaded area will give deflection less than 1/4" for a uniform load of 100 pounds per square foot.				
	D	.199	.312	.448	.610	.797	1.008	1.299	1.502	1.787					
	C	1328	1062	885	759	664	590	531	483	442					
	D	.182	.249	.359	.489	.638	.807	.996	1.206	1.433					
1-1/4"	U	1959	1253	870	639	489	387	313	259	217	185	160			
	D	.185	.256	.369	.502	.656	.882	1.025	1.239	1.473	1.734	2.001			
	C	1959	1567	1306	1119	979	870	783	712	653	602	559			
	D	.131	.205	.296	.402	.526	.664	.819	.993	1.182	1.386	1.608			
1-1/2"	U	2612	1671	1161	853	653	516	418	345	290	247	213	185	163	
	D	.184	.214	.308	.485	.547	.692	.855	1.033	1.230	1.443	1.673	1.915	2.184	
	C	2612	2089	1741	1492	1306	1161	1044	949	870	803	746	696	653	
	D	.109	.171	.246	.335	.438	.554	.683	.827	.984	1.154	1.340	1.537	1.750	
1-3/4"	U	3366	2154	1496	1099	841	665	538	445	374	318	274	239	210	186
	D	.221	.259	.283	.412	.473	.599	.739	.895	1.066	1.248	1.446	1.662	1.891	2.134
	C	3366	2693	2244	1923	1683	1496	1346	1224	1122	1035	961	897	841	792
	D	.099	.148	.213	.290	.379	.479	.592	.716	.852	1.000	1.159	1.378	1.515	1.711
2"	U	4193	2683	1863	1369	1048	828	671	554	466	397	342	298	262	232
	D	.187	.197	.251	.320	.418	.529	.653	.789	.940	1.104	1.279	1.468	1.671	1.886
	C	4193	3354	2795	2396	2096	1863	1677	1524	1397	1290	1198	1118	1048	986
	D	.084	.131	.188	.256	.334	.423	.522	.632	.752	.883	1.024	1.181	1.337	1.509
LIGHTWEIGHT DECKPLATE 1-1/4" x 6"															
1-1/4"	U	739	473	328	241	182	146	118	98	82	70	60	53	46	
	D	.183	.220	.320	.440	.570	1.179	1.300	1.405	1.460	1.881	2.724	3.000	3.460	
	C	370	296	246	211	185	164	148	134	123	114	106	99	93	
	D	.133	.180	.260	.350	.460	.613	.710	.860	1.03	1.20	1.61	1.69	1.82	