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2-Diamond Plank Load Table – 4-3/4" Width

PRODUCT SELECTION/DESIGN TABLES

MATERIAL GAUGE	CHANNEL DEPTH	WEIGHT LB./LIN. FT.	CATALOG NUMBER	SPAN	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"
STEEL 14 GA.	1-1/2	2.3	21514	U	1324	849	591	435	334	265	215	179	151				
				D	.06	.10	.14	.20	.26	.32	.40	.49	.58				
				C	524	420	351	301	265	236	213	195	179				
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47				
	2	2.6	22014	U	2198	1409	980	721	553	438	356	295	248	212	184	161	142
				D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.60	.70	.81	.92
				C	870	697	582	499	438	390	352	321	295	273	255	239	225
				D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74
	2-1/2	2.8	22514	U	2522	1616	1124	827	634	502	408	338	285	244	211	184	163
				D	.04	.06	.08	.11	.14	.18	.23	.27	.33	.38	.45	.51	.59
				C	998	800	667	573	502	447	404	368	338	313	292	273	257
				D	.03	.04	.06	.09	.11	.15	.18	.22	.26	.31	.36	.41	.47
STEEL 12 GA.	1-1/2	3.2	21512	U	1751	1123	782	576	443	351	286	237	200	172	149	131	116
				D	.07	.11	.15	.21	.27	.35	.43	.52	.62	.74	.86	.99	1.14
				C	693	556	464	399	350	313	283	258	238	221	206	194	183
				D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.69	.79	.91
	2	3.6	22012	U	2792	1790	1245	917	703	557	453	375	317	271	235	205	181
				D	.05	.08	.11	.16	.20	.26	.32	.39	.46	.55	.64	.73	.84
				C	1105	886	739	635	557	496	448	409	376	348	325	305	287
				D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.67
	2-1/2	4.0	22512	U	4179	2676	1860	1368	1049	830	673	557	469	400	346	302	266
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.51	.59	.67
				C	1654	1324	1104	948	830	739	666	606	557	515	479	448	421
				D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.35	.41	.47	.54
ALUM. 12 GA. .080"	2	.92	22012-A	U	1463	937	650	478	366	289	234	194	162	138	119		
				D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.87	1.02		
				C	579	463	386	331	290	257	232	211	192	177	165		
				D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69	.80		
ALUM. 10 GA. .100"	2	1.20	22010-A	U	2049	1312	911	669	512	405	328	271	228	194	167	146	128
				D	.09	.14	.20	.28	.37	.46	.58	.70	.83	.98	1.13	1.30	1.48
				C	811	649	541	464	406	361	325	295	270	250	232	216	203
				D	.07	.11	.16	.22	.29	.37	.46	.56	.66	.78	.90	1.04	1.18

2-DIAMOND STRUT LOADING

MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.	MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.
STEEL 14 GA.	U	6268	.10	ALUM. 12 GA. .080"	U	4677	.12
	Cs	1240	.08		Cs	925	.10
STEEL 12 GA.	U	8619	.10	ALUM. 10 GA. .100"	U	5847	.12
	Cs	1705	.08		Cs	1157	.10

3-Diamond Plank Load Table – 7" Width

PRODUCT SELECTION/DESIGN TABLES

MATERIAL GAUGE	CHANNEL DEPTH	WEIGHT LB./LIN. FT.	CATALOG NUMBER	SPAN	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"
STEEL 14 GA.	1-1/2	3.0	31514	U	899	577	402	269	227	180	147	122	103				
				D	.06	.10	.14	.20	.26	.33	.40	.49	.59				
				C	524	421	351	302	265	237	214	196	180				
				D	.05	.08	.11	.16	.21	.26	.32	.39	.47				
	2	3.2	32014	U	1492	957	665	490	376	298	242	201	169	145	125	110	97
				D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.61	.71	.81	.93
				C	871	697	582	500	439	391	353	322	296	275	256	240	226
				D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74
	2-1/2	3.5	32514	U	1712	1097	763	562	431	342	277	230	194	166	144	126	111
				D	.04	.06	.08	.11	.14	.18	.23	.27	.33	.39	.45	.52	.59
				C	999	800	668	574	503	448	405	369	340	315	293	275	259
				D	.03	.04	.06	.09	.11	.15	.18	.22	.26	.31	.36	.41	.47
STEEL 12 GA.	1-1/2	4.1	31512	U	1189	763	532	392	301	239	195	162	137	118	102	90	79
				D	.07	.11	.15	.21	.27	.35	.43	.52	.63	.74	.87	1.00	1.15
				C	694	556	465	400	352	314	284	260	240	223	208	196	185
				D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.69	.80	.92
	2	4.5	32012	U	1896	1216	846	623	478	379	308	256	216	185	160	140	124
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.64	.74	.85
				C	1106	886	740	636	558	498	450	410	378	350	327	307	289
				D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.68
	2-1/2	4.9	32512	U	2836	1817	1263	929	712	564	457	379	319	272	235	206	181
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.52	.59	.68
				C	1654	1325	1105	948	831	740	667	608	558	516	481	450	423
				D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.35	.41	.47	.54
	3	5.2	33012	U	3587	2298	1597	1174	900	712	578	478	403	344	297	259	228
				D	.04	.06	.08	.11	.14	.18	.22	.27	.32	.38	.44	.51	.58
				C	1868	1675	1397	1199	1050	935	843	767	705	652	606	567	533
				D	.03	.04	.06	.09	.11	.14	.18	.22	.26	.30	.35	.41	.46
ALUM. 12 GA. .080"	2	1.15	32012-A	U	993	636	441	324	248	196	159	131	110	93			
				D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.86			
				C	579	463	386	331	290	257	232	211	192	177			
				D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69			
ALUM. 10 GA. .100"	2	1.46	32010-A	U	1391	890	618	454	348	275	223	184	155	132	114	99	87
				D	.09	.14	.20	.28	.37	.46	.58	.70	.83	.98	1.13	1.30	1.48
				C	811	649	541	464	406	361	325	295	270	250	232	216	203
				D	.07	.11	.16	.22	.29	.37	.46	.56	.66	.78	.90	1.04	1.18

3-DIAMOND STRUT LOADING

MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.	MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.
STEEL 14 GA.	U	3535	.11	ALUM. 12 GA. .080"	U	2901	.15
	Cs	1031	.09		Cs	846	.12
STEEL 12 GA.	U	6405	.11	ALUM. 10 GA. .100"	U	4488	.16
	Cs	1868	.09		Cs	1309	.13

4-Diamond Plank Load Table – 9-1/2" Width

PRODUCT SELECTION/DESIGN TABLES

MATERIAL GAUGE	CHANNEL DEPTH	WEIGHT LB./LIN. FT.	CATALOG NUMBER	SPAN	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"
STEEL 14 GA.	1-1/2	3.6	41514	U	663	426	296	219	168	134	109	90	77				
				D	.06	.10	.14	.20	.26	.33	.41	.50	.59				
				C	525	421	352	303	266	238	215	197	182				
				D	.05	.08	.11	.16	.21	.26	.33	.40	.47				
	2	3.8	42014	U	1100	705	491	362	278	220	179	148	125	107	93	81	72
				D	.06	.09	.13	.17	.23	.29	.36	.43	.52	.61	.71	.82	.94
				C	730	698	583	501	440	392	354	323	298	276	258	242	228
				D	.04	.07	.10	.14	.18	.23	.28	.35	.41	.49	.57	.66	.75
	2-1/2	4.1	42514	U	1262	809	563	415	318	252	205	170	144	123	106	93	82
				D	.04	.06	.08	.11	.14	.18	.23	.28	.33	.39	.45	.52	.60
				C	730	730	669	574	504	449	406	370	341	316	295	277	261
				D	.02	.04	.06	.09	.12	.15	.18	.22	.26	.31	.36	.42	.48
STEEL 12 GA.	1-1/2	5.0	41512	U	906	581	405	298	229	182	148	123	104	89	77	67	60
				D	.07	.11	.16	.21	.28	.36	.44	.54	.64	.76	.89	1.02	1.17
				C	718	575	481	413	363	324	292	267	246	228	213	200	189
				D	.06	.09	.13	.17	.23	.29	.35	.43	.52	.61	.71	.82	.94
	2	5.4	42012	U	1398	896	624	460	353	280	228	189	160	137	119	104	92
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.65	.75	.85
				C	1107	887	741	637	559	499	451	412	380	353	329	309	292
				D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.52	.60	.68
	2-1/2	5.7	42512	U	2090	1339	931	685	525	416	338	280	236	201	174	152	134
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.52	.60	.68
				C	1400	1325	1106	949	832	741	668	609	559	518	482	452	425
				D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.54
	3	6.1	43012	U	2644	1694	1177	866	664	525	426	353	297	254	219	192	169
				D	.04	.06	.08	.11	.14	.18	.22	.27	.32	.38	.44	.51	.58
				C	1400	1400	1398	1200	1051	936	844	769	706	653	608	569	535
				D	.02	.04	.06	.09	.11	.15	.18	.22	.26	.31	.35	.41	.47
ALUM. 12 GA. .080"	2	1.37	42012-A	U	732	468	325	239	183	145	117	97	81	69			
				D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.87			
				C	568	463	386	331	290	257	232	211	192	177			
				D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69			
ALUM. 10 GA. .100"	2	1.74	42010-A	U	1025	656	455	335	256	202	164	136	114	97	84	73	64
				D	.09	.14	.20	.28	.37	.46	.58	.70	.83	.98	1.13	1.30	1.48
				C	811	649	541	464	406	361	325	295	270	250	232	216	203
				D	.07	.11	.16	.22	.29	.37	.46	.56	.66	.78	.90	1.04	1.18
STAINLESS STEEL 304 16 GA.	2	3.2	42016-S	U	720	462	322	238	183	145	118	98	83	71	59		
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.61		
				C	570	457	382	329	289	258	234	214	197	184	165		
				D	.04	.06	.09	.12	.16	.21	.26	.31	.38	.44	.49		
STAINLESS STEEL 316L 16 GA.		3.2	42016-SL	U	626	400	278	204	156	123	100	82	69	59	51		
				D	.04	.06	.10	.13	.17	.22	.27	.32	.39	.45	.53		
				C	492	397	330	283	248	220	198	180	165	152	141		
				D	.03	.05	.08	.10	.14	.17	.22	.26	.31	.36	.42		

4-DIAMOND STRUT LOADING

MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.	MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.
STEEL 14 GA.	U	1844	.15	ALUM. 10 GA. .100"	U	2238	.23
	Cs	730	.11		Cs	886	.15
STEEL 12 GA.	U	3537	.14	STAINLESS STEEL 304 16 GA.	U	1450	.29
	Cs	1400	.11		Cs	574	.19
ALUM. 12 GA. .080"	U	1435	.19	STAINLESS STEEL 316L 16 GA.	U	1243	.20
	Cs	568	.15		Cs	492	.16

5-Diamond Plank Load Table – 11-3/4" Width

PRODUCT SELECTION/DESIGN TABLES

MATERIAL GAUGE	CHANNEL DEPTH	WEIGHT LB./LIN. FT.	CATALOG NUMBER	SPAN	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"
STEEL 14 GA.	1-1/2	4.2	51514	U	536	344	240	177	136	108	88	74	62				
				D	.06	.10	.14	.20	.26	.33	.41	.50	.60				
				C	525	422	353	304	267	239	216	198	183				
				D	.05	.08	.12	.16	.21	.26	.33	.40	.48				
	2	4.4	52014	U	890	571	397	293	225	178	145	120	102	87	76	66	59
				D	.06	.09	.13	.17	.23	.29	.36	.43	.52	.61	.71	.83	.95
				C	707	699	584	502	440	393	355	324	299	277	259	243	230
				D	.04	.07	.10	.14	.18	.23	.29	.35	.42	.49	.57	.66	.76
	2-1/2	4.7	52514	U	1021	655	456	336	258	204	166	138	116	100	86	76	67
				D	.04	.06	.08	.11	.14	.18	.23	.28	.33	.39	.45	.52	.60
				C	707	707	669	575	505	450	407	371	342	317	296	278	262
				D	.02	.04	.06	.09	.12	.15	.18	.22	.26	.31	.36	.42	.48
STEEL 12 GA.	1-1/2	5.9	51512	U	710	456	318	235	181	144	117	98	83	71	62	55	49
				D	.07	.11	.15	.21	.28	.35	.44	.53	.64	.76	.89	1.03	1.18
				C	695	558	467	402	354	317	287	263	244	227	213	201	190
				D	.05	.08	.12	.17	.22	.28	.35	.43	.51	.60	.71	.82	.95
	2	6.2	52012	U	1131	725	505	372	286	227	185	154	130	111	97	85	75
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.65	.75	.86
				C	1107	888	742	638	561	501	453	414	382	355	332	312	295
				D	.04	.06	.09	.12	.16	.21	.26	.31	.38	.44	.52	.60	.69
	2-1/2	6.6	52512	U	1691	1083	753	554	425	337	273	226	191	163	141	123	109
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68
				C	1115	1115	1106	950	833	742	669	610	561	519	484	453	426
				D	.02	.04	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.55
	3	7.0	53012	U	2138	1370	952	701	537	425	345	286	241	206	178	155	137
				D	.04	.06	.08	.11	.14	.18	.22	.27	.32	.38	.44	.51	.58
				C	1115	1115	1115	1115	1052	937	845	770	707	654	609	570	537
				D	.02	.03	.05	.08	.11	.15	.18	.22	.26	.31	.36	.41	.47
ALUM. 12 GA. .080"	2	1.59	52012-A	U	592	379	263	193	148	117	95	78					
				D	.08	.13	.18	.25	.33	.42	.52	.63					
				C	466	466	386	331	290	257	232	211					
				D	.05	.10	.15	.20	.27	.34	.42	.51					
ALUM. 10 GA. .100"	2	2.0	52010-A	U	829	530	368	271	207	164	133	110	92	78	68	59	
				D	.09	.14	.20	.28	.37	.46	.58	.70	.83	.98	1.13	1.30	
				C	714	649	541	464	406	361	325	295	270	250	232	216	
				D	.06	.11	.16	.22	.29	.37	.46	.56	.66	.78	.90	1.04	
STAINLESS STEEL 304 16 GA.	2	3.7	52016-S	U	583	374	261	192	148	118	96	80	68	58	48		
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.61		
				C	464	458	323	330	290	259	235	215	199	185	165		
				D	.03	.06	.09	.12	.16	.21	.26	.32	.38	.45	.49		
STAINLESS STEEL 316L 16 GA.		3.7	52016-SL	U	406	324	225	165	126	100	81	66	56	47			
				D	.04	.06	.10	.13	.17	.22	.27	.32	.39	.45			
				C	398	397	330	283	248	220	198	180	165	152			
				D	.03	.05	.08	.10	.14	.17	.22	.26	.31	.36			

5-DIAMOND STRUT LOADING

MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.	MATERIAL GAUGE	TYPE LOADING	LOAD	DEFLECTION IN.
STEEL 14 GA.	U	1444	.18	ALUM. 10 GA. .100"	U	1458	.27
	Cs	707	.15		Cs	714	.22
STEEL 12 GA.	U	2277	.15	STAINLESS STEEL 304 16 GA.	U	947	.38
	Cs	1115	.12		Cs	464	.31
ALUM. 12 GA. .080"	U	951	.24	STAINLESS STEEL 316L 16 GA.	U	812	.31
	Cs	466	.20		Cs	398	.25