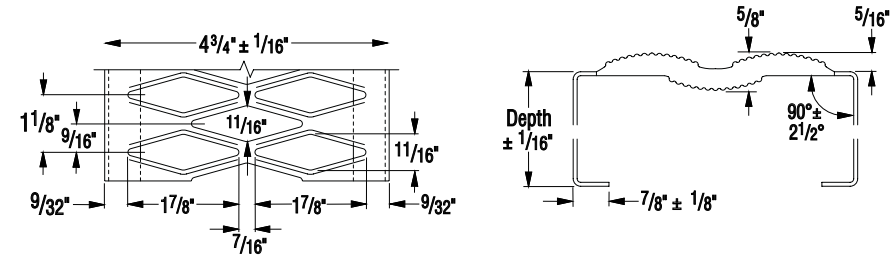


2-DIAMOND PLANK – 4-3/4" WIDTH

Allowable Loads and Deflections

U=Uniform Load (lb./ft.²) C=Concentrated Load (lb.) D=Deflection (in.)

Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²



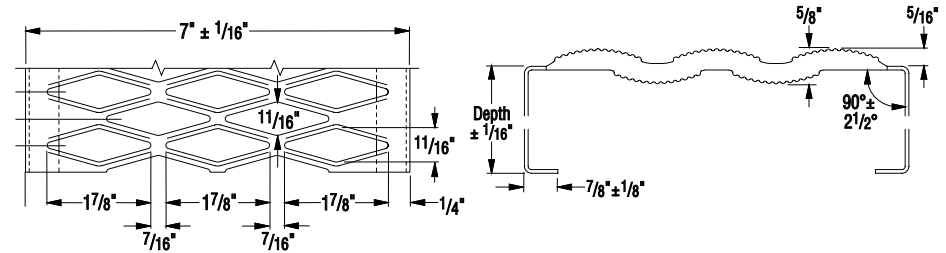
Material	Channel Depth in. (mm)	Weight lb./in. ft. (sq/m)	Catalog Number	Span																
				2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
Steel 14 ga.	1-1/2" (38.1)	2.3 (3.42)	21514	U	1324	849	591	435	334	265	215	179	151	-	-	-	-	-	-	-
				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" (50.8)	2.6 (3.87)	22014	U	2198	1409	980	721	553	438	356	295	248	212	184	161	142	113	93	-
				D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.60	.70	.81	.92	1.18	1.47	-
				C	870	697	582	499	438	390	352	321	295	273	255	239	225	201	183	-
				D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74	.94	1.18	-
	2-1/2" (63.5)	2.8 (4.17)	22514	U	2522	1616	1124	827	634	502	408	338	285	244	211	184	163	139	108	88
				D	.04	.06	.08	.11	.14	.18	.23	.27	.33	.38	.45	.51	.59	.75	.64	1.14
				C	998	800	667	573	502	447	404	368	338	313	292	273	257	231	210	193
				D	.03	.04	.06	.09	.11	.15	.18	.22	.26	.31	.36	.41	.47	.60	.75	.92
Steel 12 ga.	1-1/2" (38.1)	3.2 (4.76)	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" (50.8)	3.6 (5.36)	22012	U	2792	1709	1245	917	703	557	453	375	317	271	235	205	181	145	119	99
				D	.05	.08	.11	.16	.20	.26	.32	.39	.46	.55	.63	.73	.84	1.07	1.34	1.64
				C	1105	886	739	635	557	496	448	409	376	348	325	305	287	258	235	216
				D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.67	.86	1.07	1.31
	2-1/2" (63.5)	4.0 (5.95)	22512	U	4179	2676	1860	1368	1049	830	673	557	469	400	346	302	266	211	172	143
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.51	.59	.67	.86	1.07	1.30
				C	1654	1324	1104	948	830	739	666	606	557	515	479	448	421	376	341	312
				D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.35	.41	.47	.54	.69	.85	1.04

3-DIAMOND PLANK – 7" WIDTH

Allowable Loads and Deflections

U=Uniform Load (lb./ft.²) C=Concentrated Load (lb.) D=Deflection (in.)

Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²



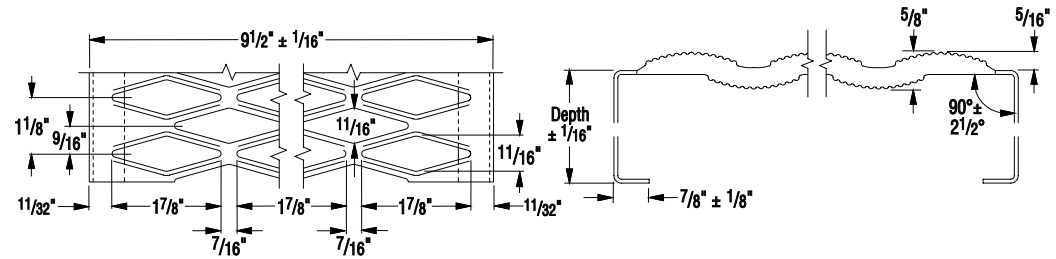
Material	Channel Depth in. (mm)	Weight lb./in. ft. (sq/m)	Catalog Number		Span																
					2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
Steel 14 ga.	1-1/2" (38.1)	3.0 (4.46)	31514	U	899	577	402	269	227	180	147	122	103	-	-	-	-	-	-	-	-
				D	.06	.01	.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" (50.8)	3.2 (4.76)	32014	U	1492	957	665	490	376	298	242	201	169	145	125	110	97	77	63	-	-
				D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.61	.71	.81	.93	1.19	1.49	-	-
				C	871	697	582	500	439	391	353	322	296	275	256	240	226	203	185	-	-
				D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74	.95	1.19	-	-
	2-1/2" (63.5)	3.5 (5.21)	32514	U	1712	1097	763	562	431	342	277	230	194	166	144	126	111	89	73	61	52
				D	.04	.06	.08	.11	.14	.18	.23	.27	.33	.39	.45	.52	.59	.76	.94	1.16	1.40
				C	999	800	668	574	503	448	405	369	340	315	293	275	259	233	212	195	181
				D	.03	.04	.06	.09	.11	.15	.18	.22	.26	.31	.36	.41	.47	.61	.76	.93	1.12
Steel 12 ga.	1-1/2" (38.1)	4.1 (6.10)	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" (50.8)	4.5 (6.70)	32012	U	1896	1216	846	623	478	379	308	256	216	185	160	140	124	99	82	68	58
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.64	.74	.85	1.08	1.36	1.67	2.01
				C	1106	886	740	636	558	498	450	410	378	350	327	307	289	260	238	219	203
				D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.68	.87	1.09	1.33	1.61
	2-1/2" (63.5)	4.9 (7.29)	32512	U	2836	1871	1263	929	712	564	457	379	319	272	235	206	181	144	118	98	83
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.52	.59	.68	.86	1.07	1.31	1.57
				C	1654	1325	1105	948	831	740	667	608	558	516	481	450	423	378	343	314	290
				D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.35	.41	.47	.54	.69	.86	1.05	1.25

4-DIAMOND PLANK – 9-1/2" WIDTH

Allowable Loads and Deflections

U=Uniform Load (lb./ft.²) C=Concentrated Load (lb.) D=Deflection (in.)

Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²



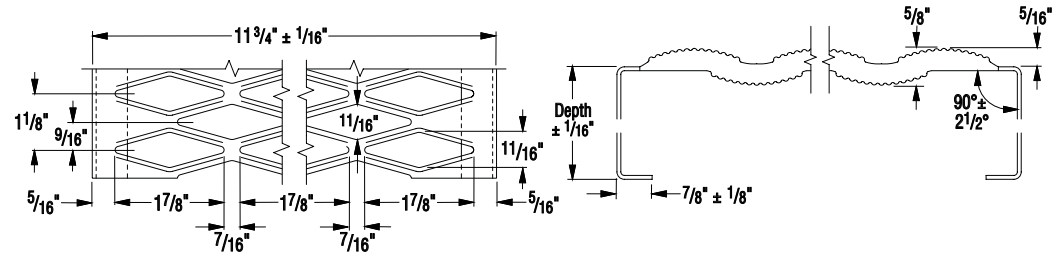
Material	Channel Depth in. (mm)	Weight lb./ in. ft. (sq/m)	Catalog Number	Span																	
				2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	
Steel 14 ga.	1-1/2" (38.1)	3.6 (5.36)	41514	U	663	426	296	219	168	134	109	90	77	-	-	-	-	-	-	-	-
				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" (50.8)	3.8 (5.69)	42014	U	1100	705	491	362	278	220	179	148	125	107	93	81	72	58	47	-	-
				D	.06	.09	.13	.17	.23	.29	.36	.43	.52	.61	.71	.82	.94	1.20	1.51	-	-
				C	730	689	583	501	440	392	354	323	298	276	258	242	228	205	187	-	-
				D	.04	.07	.10	.14	.18	.23	.28	.35	.41	.49	.57	.66	.75	.96	1.20	-	-
	2-1/2" (63.5)	4.1 (6.10)	42514	U	1262	809	563	415	318	252	205	170	144	123	106	93	82	66	54	45	-
				D	.04	.06	.08	.11	.14	.18	.23	.28	.33	.39	.45	.52	.60	.76	.95	1.17	-
				C	730	730	669	574	504	449	406	370	341	316	295	277	261	235	214	197	-
				D	.02	.04	.06	.09	.12	.15	.18	.22	.26	.31	.36	.42	.48	.61	.76	.94	-
Steel 12 ga.	1-1/2" (38.1)	5.0 (7.44)	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" (50.8)	5.4 (8.04)	42012	U	1398	896	624	460	353	280	228	189	160	137	119	104	92	74	61	51	43
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.65	.75	.85	1.10	1.38	1.69	2.03
				C	1107	887	741	637	559	499	451	412	380	353	329	309	292	264	241	222	206
				D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.52	.60	.68	.88	1.10	1.35	1.63
	2-1/2" (63.5)	5.7 (8.48)	42512	U	2090	1339	931	685	525	416	338	280	236	201	174	152	134	107	87	73	62
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.52	.60	.68	.87	1.08	1.32	1.58
				C	1400	1325	1106	949	832	741	668	609	559	518	482	452	455	390	345	316	293
				D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.54	.69	.86	1.05	1.27
	3" (76.2)	6.1 (9.08)	43012	U	2644	1694	1177	866	664	525	426	353	297	254	219	192	169	134	110	91	77
				D	.04	.06	.08	.11	.14	.18	.22	.27	.32	.38	.44	.51	.58	.74	.92	1.12	1.35
				C	1400	1400	1398	1200	1051	936	844	769	706	653	608	569	535	478	434	397	367
				D	.02	.04	.06	.09	.11	.15	.18	.22	.26	.31	.35	.41	.47	.59	.74	.90	1.08

5-DIAMOND PLANK – 11-3/4"WIDTH

Allowable Loads and Deflections

U=Uniform Load (lb./ft.²) C=Concentrated Load (lb.) D=Deflection (in.)

Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²



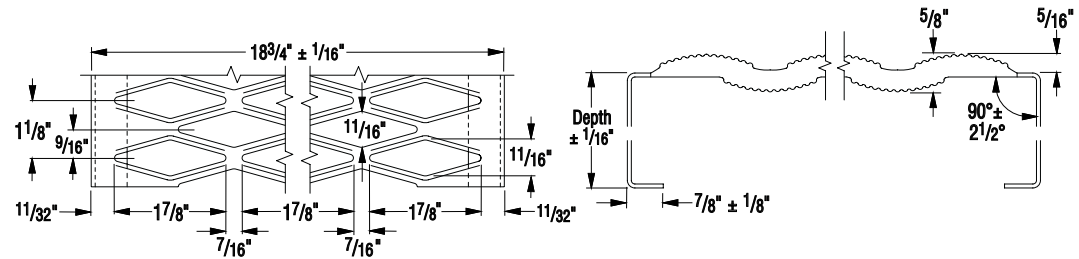
Material	Channel Depth in. (mm)	Weight lb./in. ft. (sq/m)	Catalog Number		Span																
					2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
Steel 14 ga.	1-1/2" (38.1)	4.2 (6.25)	51514	U	536	344	240	177	136	108	88	74	62	-	-	-	-	-	-	-	-
				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" (50.8)	4.4 (6.55)	52014	U	890	571	397	293	225	178	145	120	102	87	76	66	59	47	-	-	-
				D	.06	.09	.13	.17	.23	.29	.36	.43	.52	.61	.71	.83	.95	1.21	-	-	-
				C	707	699	584	502	440	393	355	324	299	277	259	243	230	207	-	-	-
				D	.04	.07	.10	.14	.18	.23	.29	.35	.42	.49	.57	.66	.76	.97	-	-	-
	2-1/2" (63.5)	4.7 (6.99)	52514	U	1021	655	456	336	258	204	166	138	116	100	86	76	67	54	44	-	-
				D	.04	.06	.08	.11	.14	.18	.23	.28	.33	.39	.45	.52	.60	.77	.96	-	-
				C	707	707	669	575	505	450	407	371	342	317	296	278	262	236	216	-	-
				D	.02	.04	.06	.09	.12	.15	.18	.22	.26	.31	.36	.42	.48	.62	.77	-	-
Steel 12 ga.	1-1/2" (38.1)	5.9 (8.78)	51512	U	710	456	318	235	181	144	117	98	83	71	62	55	49	-	-	-	-
				D	.07	.11	.15	.21	.27	.35	.44	.53	.64	.76	.89	1.03	1.18	-	-	-	-
				C	696	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" (50.8)	6.2 (9.23)	52012	U	1131	725	505	372	286	227	185	154	130	111	97	85	75	60	50	42	-
				D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.65	.75	.86	1.11	1.39	1.70	-
				C	1107	888	742	638	561	501	453	414	382	355	332	312	295	266	243	224	-
				D	.04	.06	.09	.12	.16	.21	.26	.31	.38	.44	.52	.60	.69	.89	1.11	1.36	-
	2-1/2" (63.5)	6.6 (9.82)	52512	U	1691	1083	753	554	425	337	273	226	151	141	123	109	87	71	59	59	50
				D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68	.87	1.09	1.33	1.60
				C	1115	1115	1106	950	833	742	669	610	561	519	484	453	426	382	347	319	295
				D	.02	.04	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.55	.70	.87	1.06	1.28
	3" (76.2)	7.0 (10.40)	53012	U	2138	1370	952	701	537	425	345	286	241	206	178	155	137	109	89	74	63
				D	.04	.06	.08	.11	.14	.18	.22	.27	.32	.38	.44	.51	.58	.74	.93	1.13	1.36
				C	1115	1115	1115	1115	1052	937	845	770	707	654	609	570	537	480	436	399	369
				D	.02	.03	.05	.08	.11	.15	.18	.22	.26	.31	.36	.41	.47	.60	.74	.90	1.09

8-DIAMOND PLANK – 18-3/4" WIDTH

Allowable Loads and Deflections

U=Uniform Load (lb./ft.²) C=Concentrated Load (lb.) D=Deflection (in.)

Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²



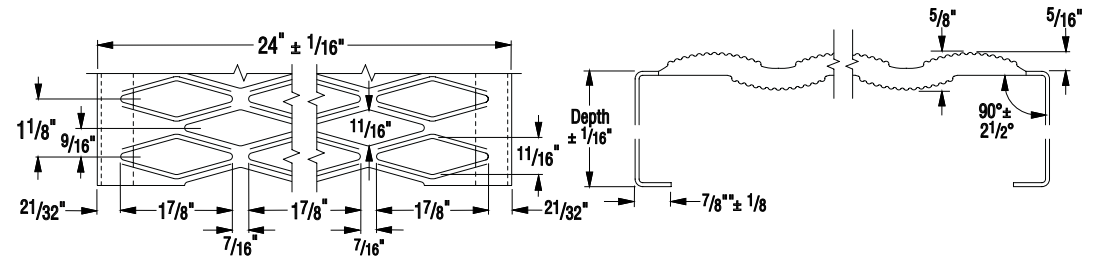
Material	Channel Depth in. (mm)	Weight lb./ in. ft. (sq/m)	Catalog Number		Span																
					2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
Steel 14 ga.	1-1/2" (38.1)	6.1 (9.1)	81514	U	337	217	151	112	86	69	56	47	-	-	-	-	-	-	-	-	-
				D	.33	.27	.26	.29	.33	.38	.45	.55	-	-	-	-	-	-	-	-	-
				C	263	211	178	153	135	121	110	101	-	-	-	-	-	-	-	-	-
				D	.16	.15	.15	.16	.17	.19	.22	.25	-	-	-	-	-	-	-	-	-
	2" (50.8)	6.3 (9.4)	82014	U	540	358	250	184	142	113	92	76	65	55	48	42	-	-	-	-	-
				D	.48	.37	.34	.32	.34	.38	.43	.50	.58	.66	.77	.87	-	-	-	-	-
				C	437	349	292	251	220	198	179	164	152	141	132	124	-	-	-	-	-
				D	.24	.21	.20	.19	.20	.21	.23	.26	.29	.32	.36	.40	-	-	-	-	-
	2-1/2" (63.5)	6.6 (9.8)	82514	U	540	411	286	211	162	129	105	87	74	63	56	48	43	-	-	-	-
				D	.46	.39	.35	.28	.27	.28	.31	.35	.39	.44	.50	.57	.64	-	-	-	-
				C	450	402	335	287	252	225	205	188	173	161	151	142	134	-	-	-	-
				D	.24	.22	.20	.19	.19	.19	.20	.21	.23	.24	.27	.29	.32	-	-	-	-
Steel 12 ga.	1-1/2" (38.1)	8.5 (12.6)	81512	U	446	287	201	148	115	91	75	63	53	46	40	-	-	-	-	-	
				D	.27	.22	.22	.26	.32	.39	.47	.56	.67	.80	.92	-	-	-	-	-	-
				C	359	280	235	203	179	161	146	135	125	117	110	-	-	-	-	-	-
				D	.12	.12	.12	.14	.16	.19	.22	.26	.30	.35	.40	-	-	-	-	-	-
	2" (50.8)	8.9 (13.2)	82012	U	710	456	318	235	181	144	117	98	83	71	62	54	48	-	-	-	-
				D	.31	.25	.23	.25	.28	.31	.37	.44	.51	.60	.68	.79	.90	-	-	-	-
				C	554	444	371	319	282	253	229	210	194	181	169	160	151	-	-	-	-
				D	.17	.15	.14	.15	.16	.17	.19	.22	.25	.28	.32	.36	.40	-	-	-	-
	2-1/2" (63.5)	9.2 (13.7)	82512	U	810	680	473	348	267	212	172	143	120	103	89	78	69	55	45	-	-
				D	.33	.31	.27	.26	.27	.29	.32	.37	.42	.49	.55	.63	.72	.90	1.12	-	-
				C	800	663	553	475	416	371	334	307	282	262	244	229	216	194	177	-	-
				D	.23	.20	.18	.18	.18	.18	.19	.21	.23	.25	.28	.31	.34	.41	.50	-	-
	2-1/2" (63.5)	9.6 (14.3)	83012	U	810	810	598	440	337	267	217	180	152	130	112	98	87	69	57	47	40
				D	.32	.35	.30	.27	.26	.28	.31	.34	.39	.43	.49	.56	.62	.78	.96	1.17	1.40
				C	800	800	699	600	526	468	422	385	353	327	307	288	271	243	221	203	.89
				D	.22	.23	.22	.20	.20	.20	.20	.21	.22	.24	.26	.28	.31	.37	.44	.52	.61

10-DIAMOND – PLANK-24" WIDTH

Allowable Loads and Deflections

U=Uniform Load (lb./ft.²) C=Concentrated Load (lb.) D=Deflection (in.)

Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²



Material	Channel Depth in. (mm)	Weight lb./in. ft. (sq/m)	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"	9'-0"	10'-0"	11'-0"	12'-0"
Steel 14 ga.	2" (50.8)	7.4 (11.0)	102014	U	300	300	228	168	128	102	82	68	57	49	42	-	-	-	-	-
				D	.46	.48	.42	.38	.38	.41	.44	.49	.55	.62	.70	-	-	-	-	-
				C	400	400	343	294	257	229	206	187	172	158	147	-	-	-	-	-
				D	.34	.35	.32	.30	.29	.29	.30	.31	.33	.35	.37	-	-	-	-	-
	3" (76.2)	7.9 (11.8)	103014	U	300	300	300	264	202	160	130	107	90	77	66	58	51	40	-	-
				D	.42	.43	.46	.44	.39	.36	.35	.36	.39	.44	.45	.49	.54	.65	-	-
				C	400	400	400	400	400	360	324	295	270	249	232	216	203	180	-	-
				D	.33	.33	.34	.35	.37	.35	.33	.33	.32	.32	.33	.34	.35	.38	-	-
Steel 12 ga.	2" (50.8)	19.4 (15.5)	102012	U	475	416	289	212	162	128	104	86	72	60	53	46	-	-	-	-
				D	.40	.39	.33	.31	.31	.34	.38	.44	.48	.56	.63	.71	-	-	-	-
				C	650	520	434	372	325	289	260	237	217	200	186	174	-	-	-	-
				D	.26	.22	.19	.20	.20	.21	.22	.23	.25	.28	.31	.34	-	-	-	-
	3" (76.2)	11.1 (16.5)	103012	U	475	475	475	392	300	237	192	159	133	114	98	85	75	59	48	-
				D	.38	.39	.42	.38	.36	.34	.35	.37	.39	.43	.47	.52	.58	.70	.85	-
				C	900	900	800	686	600	534	480	437	400	369	343	320	300	267	240	-
				D	.34	.35	.33	.29	.27	.26	.26	.26	.26	.27	.29	.30	.32	.36	.41	-