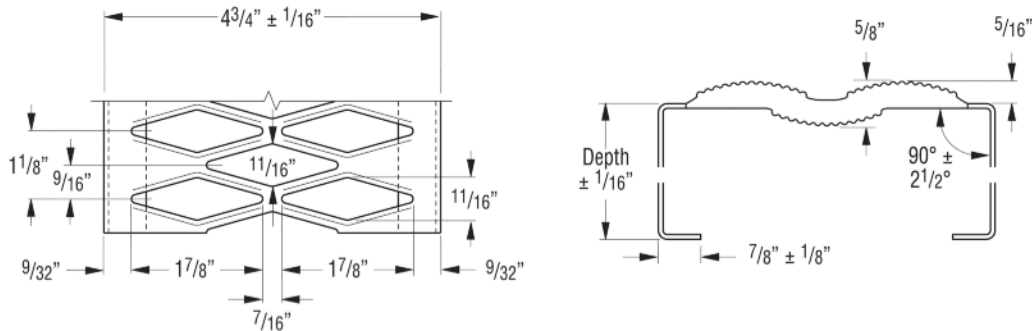


SAFETY GRATING

2-Diamond Plank - 4-3/4" Width



Product Selection/Design Tables

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 Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"
Steel 14 ga.	1 1/2" (38.1)	2.3 (3.42)	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)	U	2198	1409	980	721	553	438	356	295	248	212	184	161	142	113
			D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.60	.70	.81	.92	1.18
			C	870	697	582	499	438	390	352	321	295	273	255	239	225	201
			D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74	.94
	2 1/2" (63.5)	2.8 (4.17)	U	2522	1616	1124	827	634	502	408	338	285	244	211	184	163	139
			D	.04	.06	.08	.11	.14	.18	.23	.27	.33	.38	.45	.51	.59	.75
			C	998	800	667	573	502	447	404	368	338	313	292	273	257	231
			D	.03	.04	.06	.09	.11	.15	.18	.22	.26	.31	.36	.41	.47	.60
Steel 12 ga.	1 1/2" (38.1)	3.2 (4.76)	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)	U	2792	1790	1245	917	703	557	453	375	317	271	235	205	181	145
			D	.05	.08	.11	.16	.20	.26	.32	.39	.46	.55	.63	.73	.84	1.07
			C	1105	886	739	635	557	496	448	409	376	348	325	305	287	258
			D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.67	.86
	2 1/2" (63.5)	4.0 (5.95)	U	4179	2676	1860	1368	1049	830	673	557	469	400	346	302	266	211
			D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.44	.51	.59	.67	.86
			C	1654	1324	1104	948	830	739	666	606	557	515	479	448	421	376
			D	.03	.05	.07	.10	.13	.17	.21	.25	.30	.35	.41	.47	.54	.69

SAFETY GRATING

2-Diamond Plank - 4-3/4" Width

Product Selection/Design Tables

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 Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"	8'-6"	9'-0"	9'-6"	10'-0"
Alum. Alloy 5052 .080"	1 1/2"* (38.1)	.85 (1.26)	U	998	639	443	326	248	196	159	131	110	94							
			D	.10	.15	.22	.31	.40	.51	.63	.76	.90	1.08							
			C	395	316	263	226	197	175	157	143	131	121							
			D	.08	.12	.18	.25	.32	.41	.50	.61	.73	.85							
	2" (50.8)	.92 (1.37)	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						
	2 1/2"* (63.5)	1.00 (1.48)	U	2199	1407	977	718	550	434	352	291	244	208	179	156	137				
			D	.07	.10	.15	.21	.28	.35	.43	.53	.63	.74	.85	.98	1.12				
			C	870	696	580	497	435	387	348	316	290	268	249	232	218				
			D	.05	.08	.12	.17	.22	.28	.35	.42	.50	.59	.68	.78	.89				
Alum. Alloy 5052 .100"	1 1/2"* (38.1)	1.08 (1.60)	U	1136	727	505	371	284	224	181	149	125	107							
			D	.09	.15	.22	.30	.39	.50	.63	.76	.90	1.08							
			C	450	360	300	257	225	200	179	162	149	137							
			D	.07	.12	.17	.24	.31	.40	.51	.61	.73	.85							
	2" (50.8)	1.20 (1.78)	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 1/2"* (63.5)	1.31 (1.95)	U	2820	1805	1253	921	705	557	451	373	313	267	230	201	176				
			D	.07	.11	.16	.22	.28	.36	.45	.54	.64	.76	.88	1.01	1.15				
			C	1116	893	744	638	558	496	446	406	372	343	319	298	279				
			D	.05	.09	.12	.17	.23	.29	.36	.43	.51	.60	.70	.81	.92				

* Available on special order.

SAFETY GRATING

3-Diamond Plank - 7" Width

Product Selection/Design Tables

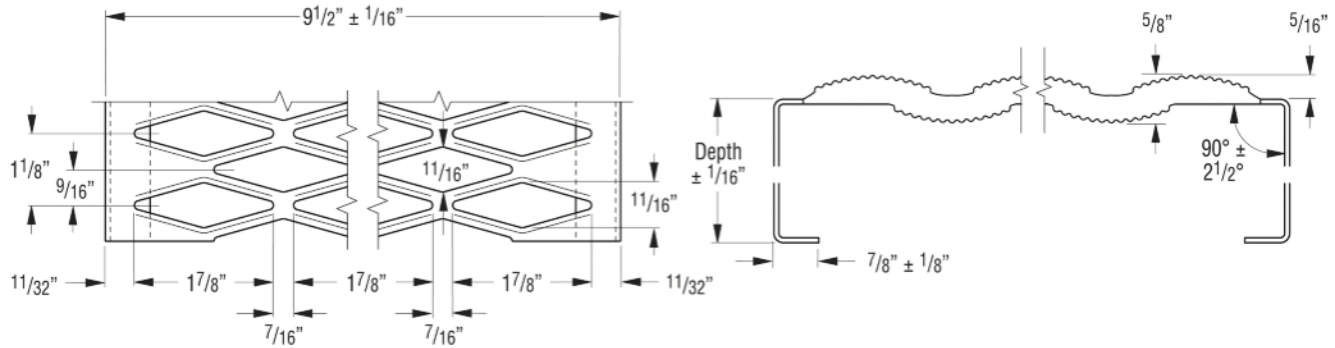
Allowable Loads and Deflections: U=Uniform Load (lb./ft.²) C= Concentrated Load (lb.) D=Deflection (in.)
Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²

Material Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"	8'-6"	9'-0"	9'-6"	10'-0"
Alum. Alloy 5052 .080"	1 1/2"* (38.1)	1.06 (1.58)	U	667	443	301	221	168	133	108										
			D	.10	.15	.22	.31	.40	.51	.63										
			C	395	316	263	226	197	175	157										
			D	.08	.12	.18	.25	.32	.41	.50										
	2"	1.15 (1.71)	U	993	636	441	324	248	196	159	131	110	93	80						
			D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.86	1.00						
			C	579	463	386	331	290	257	232	211	192	177	165						
			D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69	.80						
	2 1/2"* (63.5)	1.24 (1.85)	U	1492	955	663	487	373	295	239	197	166	141	122	106	93				
			D	.07	.10	.15	.21	.28	.35	.43	.53	.63	.74	.85	.98	1.12				
			C	812	696	580	497	435	387	348	316	290	268	249	232	218				
			D	.05	.08	.12	.17	.22	.28	.35	.42	.50	.59	.68	.78	.89				
3"* (76.2)	1.33 (1.98)	U	1833	1173	815	598	458	362	293	242	204	174	150	130	115					
		D	.06	.09	.14	.19	.25	.31	.39	.47	.56	.66	.77	.88	1.00					
		C	846	846	713	611	535	475	428	389	356	329	305	285	267					
		D	.03	.07	.11	.15	.20	.25	.31	.38	.45	.53	.61	.70	.80					
Alum. Alloy 5052 .100"	1 1/2"* (38.1)	1.34 (1.99)	U	771	494	343	252	193	152	122	101									
			D	.09	.15	.22	.30	.39	.50	.63	.76									
			C	450	360	300	257	225	200	179	162									
			D	.07	.12	.17	.24	.31	.40	.51	.61									
	2"	1.46 (2.38)	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				
	2 1/2"* (63.5)	1.57 (2.34)	U	1913	1225	850	625	478	378	306	253	213	181	156	136	120				
			D	.07	.11	.16	.22	.28	.36	.45	.54	.64	.76	.88	1.01	1.15				
			C	1116	893	744	638	558	496	446	406	372	343	319	298	279				
			D	.05	.09	.12	.17	.23	.29	.36	.43	.51	.60	.70	.81	.92				
3"* (76.2)	1.68 (2.50)	U	2470	1581	1098	807	618	488	395	327	274	234	202	176	154					
		D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.68	.78	.89					
		C	1309	1153	961	823	720	640	576	524	480	443	412	384	360					
		D	.04	.06	.10	.13	.17	.22	.27	.33	.40	.47	.54	.62	.71					

* Available on special order.

SAFETY GRATING

4-Diamond Plank - 9-1/2" Width



Product Selection/Design Tables

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 Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)	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"
Steel 14 ga.	1 1/2" (38.1)	3.6 (5.36)	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 (5.65)	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" (63.5)	4.1 (6.10)	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" (38.1)	5.0 (7.44)	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)	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" (63.5)	5.7 (8.48)	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" (76.2)	6.1 (9.08)	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
Stain-less 304 16 ga.	2" (50.8)	3.2 (4.76)	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		
Stain-less 316L 16 ga.	2" (50.8)	3.2 (4.76)	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		

SAFETY GRATING

4-Diamond Plank - 9-1/2" Width

Product Selection/Design Tables

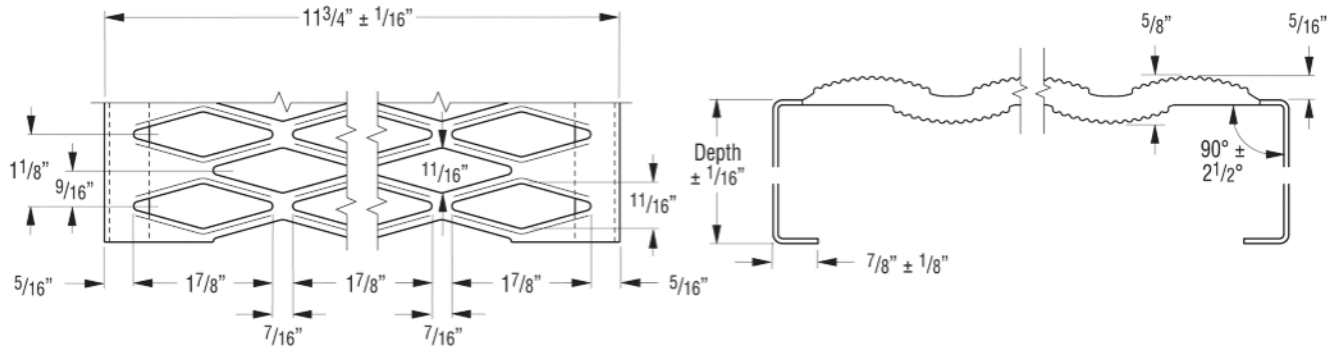
Allowable Loads and Deflections: U=Uniform Load (lb./ft.²) C= Concentrated Load (lb.) D=Deflection (in.)
Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²

Material Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"
Alum. Alloy 5052 .080"	1 1/2"* (38.1)	1.28 (1.90)	U	499	319	222	163	124	98										
			D	.10	.15	.22	.31	.40	.51										
			C	395	316	263	226	197	175										
			D	.08	.12	.18	.25	.32	.41										
	2" (50.8)	1.37 (2.03)	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						
	2 1/2"* (63.5)	1.46 (2.17)	U	1099	704	489	359	275	217	176	145	122	104	90	78	69			
			D	.07	.10	.15	.21	.28	.35	.43	.53	.63	.74	.85	.98	1.12			
			C	568	568	568	497	435	387	348	316	290	268	249	232	218			
			D	.05	.07	.12	.17	.22	.28	.35	.42	.50	.59	.68	.78	.89			
3"* (76.2)	1.55 (2.30)	U	1350	864	600	441	338	267	216	179	150	128	110	96	84				
		D	.06	.09	.14	.19	.25	.31	.39	.47	.56	.66	.77	.88	1.00				
		C	568	568	568	568	535	475	428	389	356	329	305	285	267				
		D	.02	.05	.09	.14	.20	.25	.31	.38	.45	.53	.61	.70	.80				
Alum. Alloy 5052 .100"	1 1/2"* (38.1)	1.62 (2.41)	U	568	364	253	186	142	112										
			D	.09	.15	.22	.30	.39	.50										
			C	450	360	300	257	225	200										
			D	.07	.12	.17	.24	.31	.40										
	2" (50.8)	1.74 (2.58)	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			
	2 1/2"* (63.5)	1.85 (2.75)	U	1410	902	627	460	352	278	226	186	157	133	115	100	88			
			D	.07	.11	.16	.22	.28	.36	.44	.54	.64	.76	.88	1.01	1.15			
			C	886	886	744	638	558	496	446	406	372	343	319	298	279			
			D	.05	.09	.12	.17	.23	.29	.36	.43	.51	.60	.70	.81	.92			
3"* (76.2)	1.97 (2.93)	U	1820	1165	809	594	455	360	291	241	202	172	149	129	114				
		D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.68	.78	.89				
		C	886	886	886	823	720	640	576	524	480	443	412	384	360				
		D	.02	.05	.09	.13	.17	.22	.27	.33	.40	.47	.54	.62	.71				

* Available on special order.

SAFETY GRATING

5-Diamond Plank - 11-3/4" Width



Product Selection/Design Tables

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 $\frac{1}{4}$ " or less under a uniform load of 100 lb./ft.²

Material Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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)	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)	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)	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)	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	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" (50.8)	6.2 (9.23)	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)	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)	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	
Stain-less 304 16 ga.	2" (50.8)	3.7 (5.51)	U	583	374	261	192	148	118	96	80	68	58	48						
			D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.48						
			C	464	458	323	330	290	259	235	215	199	185	165						
			D	.03	.06	.09	.12	.16	.21	.26	.32	.38	.45	.49						
Stain-less 316L 16 ga.	2" (50.8)	3.7 (5.51)	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							

SAFETY GRATING

5-Diamond Plank - 11-3/4" Width

Product Selection/Design Tables

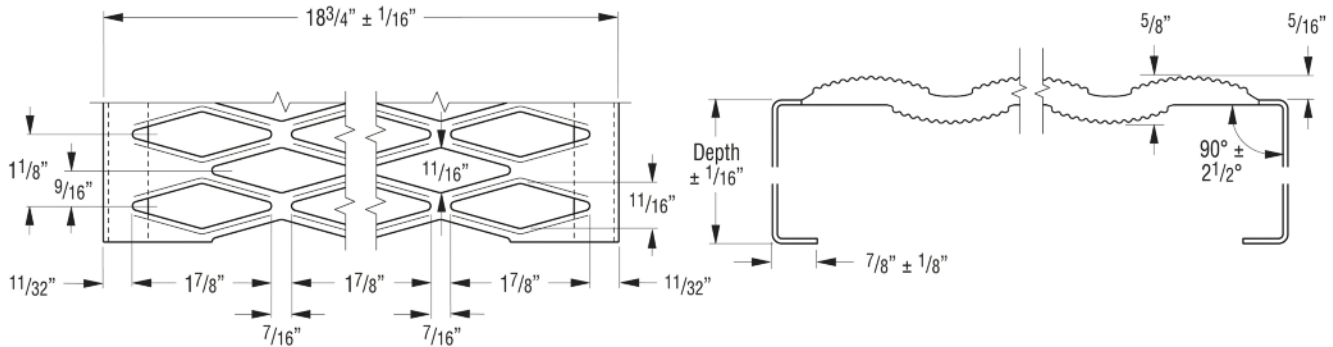
Allowable Loads and Deflections: U=Uniform Load (lb./ft.²) C= Concentrated Load (lb.) D=Deflection (in.)
Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²

Material Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"
Alum. Alloy 5052 .080"	1 1/2"* (38.1)	1.49 (2.22)	U	403	255	179	132	100												
			D	.10	.15	.22	.31	.40												
			C	395	316	263	226	197												
			D	.08	.12	.18	.25	.32												
	2"	1.59 (2.36)	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									
	2 1/2"* (63.5)	1.67 (2.48)	U	889	569	395	290	222	176	142	118	99	84	73	63					
			D	.07	.10	.15	.21	.28	.35	.43	.53	.63	.74	.85	.98					
			C	466	466	466	466	435	387	348	316	290	268	249	232					
			D	.02	.05	.10	.16	.22	.28	.35	.42	.50	.59	.68	.78					
3"* (76.2)	1.75 (2.60)	U	951	699	485	357	273	216	175	144	121	103	89	78	68					
		D	.05	.09	.14	.19	.25	.31	.39	.47	.56	.66	.77	.88	1.00					
		C	466	466	466	466	466	428	389	356	329	305	285	267						
		D	.02	.04	.07	.11	.17	.24	.31	.38	.45	.53	.61	.70	.80					
Alum. Alloy 5052 .100"	1 1/2"* (38.1)	1.88 (2.79)	U	459	294	204	150	115	91											
			D	.09	.15	.22	.30	.39	.50											
			C	450	360	300	257	225	200											
			D	.07	.12	.17	.24	.31	.40											
	2"	2.00 (2.98)	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					
	2 1/2"* (63.5)	2.11 (3.14)	U	1140	730	507	372	285	225	182	151	127	105	93	81	71				
			D	.07	.11	.16	.22	.28	.36	.45	.54	.64	.76	.88	1.01	1.15				
			C	714	714	714	638	558	496	446	406	372	343	319	298	279				
			D	.03	.07	.12	.17	.23	.29	.36	.43	.51	.60	.70	.81	.92				
3"* (76.2)	2.22 (3.30)	U	1458	942	654	481	368	291	235	195	164	139	120	105	92					
		D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.68	.78	.89					
		C	714	714	714	714	714	640	576	524	480	443	412	384	360					
		D	.02	.04	.07	.12	.17	.22	.27	.33	.40	.47	.54	.62	.71					

* Available on special order.

SAFETY GRATING

8-Diamond Plank - 18-3/4" Width



Product Selection/Design Tables

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 $\frac{1}{4}''$ or less under a uniform load of 100 lb./ft.²

Material Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"
Steel 14 ga.	1 1/2" (38.1)	6.1 (9.1)	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)	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)	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)	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)	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)	U	810	680	473	348	267	212	172	143	120	103	89	78	69	55
			D	.33	.31	.27	.26	.27	.29	.32	.37	.42	.49	.55	.63	.72	.90
			C	800	663	553	475	416	371	334	307	282	262	244	229	216	194
			D	.23	.20	.18	.18	.18	.18	.19	.21	.23	.25	.28	.31	.34	.41
	2 1/2" (63.5)	9.6 (14.3)	U	810	810	598	440	337	267	217	180	152	130	112	98	87	69
			D	.32	.35	.30	.27	.26	.28	.31	.34	.39	.43	.49	.56	.62	.78
			C	800	800	699	600	526	468	422	385	353	327	307	288	271	243
			D	.22	.23	.22	.20	.20	.20	.20	.21	.22	.24	.26	.28	.31	.37

SAFETY GRATING

8-Diamond Plank - 18-3/4" Width

Product Selection/Design Tables

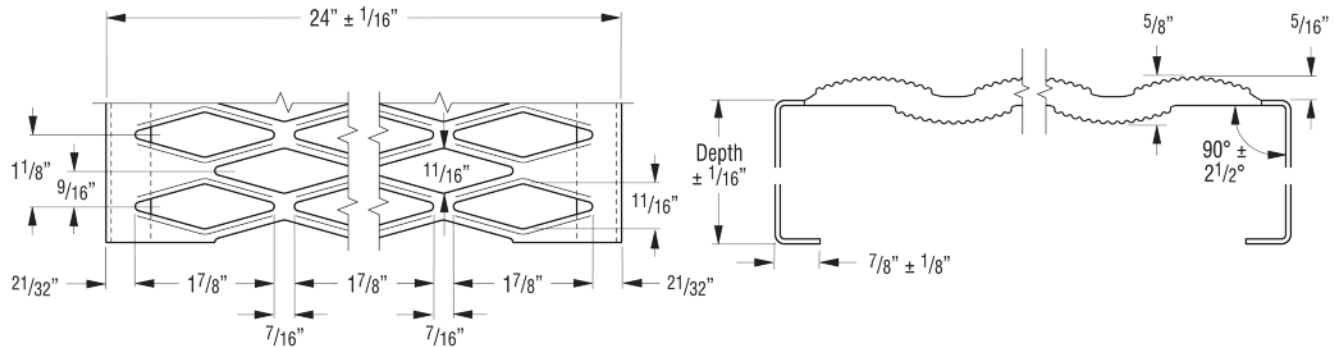
Allowable Loads and Deflections: U=Uniform Load (lb./ft.²) C= Concentrated Load (lb.) D=Deflection (in.)
Spans to the left of heavy red line produce a deflection of 1/4" or less under a uniform load of 100 lb./ft.²

Material Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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"
Alum. Alloy 5052 .080"	1 1/2"* (38.1)	2.11 (3.13)	U	253	162	112	83												
			D	.49	.40	.39	.44												
			C	198	158	132	113												
			D	.24	.22	.22	.24												
	2" (50.8)	2.20 (3.27)	U	308	237	165	121	93	73	59	49								
			D	.54	.50	.44	.44	.47	.53	.61	.71								
			C	290	232	193	166	145	129	116	106								
			D	.32	.28	.27	.27	.28	.30	.32	.36								
	2 1/2"* (63.5)	2.29 (3.40)	U	308	308	248	182	139	110	89	74	62	53						
			D	.51	.57	.54	.49	.50	.52	.57	.65	.73	.83						
			C	350	348	290	249	218	194	174	158	145	134						
			D	.37	.39	.35	.33	.33	.34	.35	.37	.40	.43						
3"* (76.2)	2.39 (3.55)	U	308	308	308	223	171	135	109	90	76	65	56	49					
		D	.50	.54	.62	.54	.52	.52	.56	.61	.68	.76	.86	.96					
		C	350	350	350	306	268	238	214	195	178	165	153	143					
		D	.37	.38	.41	.38	.37	.37	.37	.39	.40	.43	.46	.50					
Alum. Alloy 5052 .100"	1 1/2"* (38.1)	2.68 (3.98)	U	288	184	128	94	72	57										
			D	.41	.36	.36	.40	.47	.56										
			C	225	180	150	129	113	100										
			D	.18	.18	.19	.21	.23	.27										
	2" (50.8)	2.79 (4.15)	U	457	332	231	170	130	103	83	69	58	49						
			D	.59	.51	.46	.47	.52	.57	.67	.78	.89	1.03						
			C	406	325	271	232	203	181	163	148	135	125						
			D	.29	.26	.25	.26	.28	.30	.33	.37	.42	.47						
	2 1/2"* (63.5)	2.91 (4.33)	U	457	457	317	233	179	141	114	94	79	68	58	51	45			
			D	.55	.62	.51	.48	.48	.52	.58	.64	.73	.84	.94	1.07	1.20			
			C	550	447	372	319	279	248	223	203	186	172	160	149	140			
			D	.37	.32	.30	.29	.29	.30	.32	.35	.38	.41	.46	.52	.55			
3"* (76.2)	3.02 (4.50)	U	457	457	410	301	231	182	148	122	102	87	75	66	58				
		D	.53	.57	.58	.51	.48	.48	.51	.56	.61	.69	.76	.85	.95				
		C	550	550	481	412	360	320	288	262	240	222	206	192	180				
		D	.37	.39	.37	.35	.34	.34	.36	.38	.41	.44	.48	.52	.57				

* Available on special order.

SAFETY GRATING

10-Diamond Plank - 24" Width



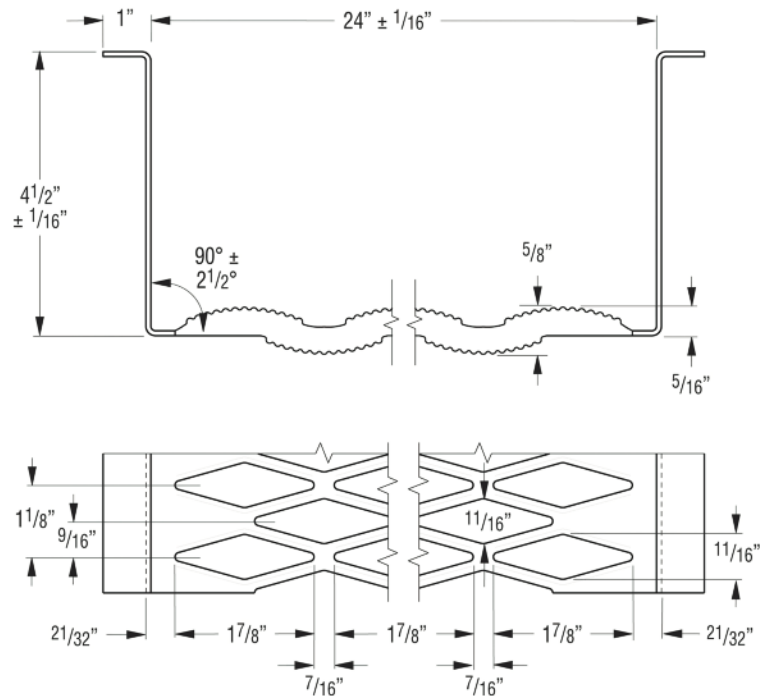
Product Selection/Design Tables

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 Gauge	Channel Depth in. (mm)	Weight lb./lin. ft. (kg/m)		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)	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)	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)	U	475	416	289	212	162	128	104	86	72	62	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)	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		

SAFETY GRATING

10-Diamond Walkway - 24" Width



Product Selection/Design Tables

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 Gauge	Weight lb./lin. ft. (kg/m)		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	8.9 (13.2)	U	300	300	300	300	300	263	213	176	148	126	109	95	83	66	53	43	
		D	.41	.41	.42	.45	.48	.47	.42	.40	.40	.41	.43	.45	.47	.55	.64	.75	
		C	400	400	400	400	400	400	400	400	400	400	380	355	333	296	266	242	
		D	.32	.33	.33	.33	.34	.35	.36	.38	.39	.41	.42	.41	.41	.42	.44	.47	
Steel 12 ga	12.5 (18.6)	U	475	475	475	475	475	420	340	281	236	201	173	151	133	105	85	70	59
		D	.37	.37	.38	.40	.43	.43	.39	.37	.37	.37	.39	.41	.44	.51	.59	.69	.80
		C	900	900	900	900	900	900	850	773	709	654	607	567	531	472	425	387	354
		D	.34	.34	.35	.35	.36	.37	.37	.35	.34	.33	.33	.33	.33	.35	.37	.40	.44