# McNICHOLS® QUALITY HOLE PRODUCTS

# PLANK GRATING

# PLANK GRATING

MCNICHOLS<sup>®</sup> Quality Plank Grating includes a variety of channel configuration choices and walkway styles.

Plank Grating is a one-piece construction product that is lightweight and offers significantly high slip resistance surfaces. In addition to low material cost and nominal installation cost, Plank Grating also provides long-term value with rust-resistant materials and finishes.

		PRODU	CT OPTIONS		
	<b>GRIP STRUT</b> ®	PERF-O GRIP <sub>®</sub>	<b>GRATE-LOCK®</b>	DIAMONDBACK®	HEAVY-DUTY PLANK
Pattern Types					
	pg. 34 / webcode: GPS1	pg. 37 / webcode: GPP3	pg. 39 / webcode: GPL1	pg. 40 / webcode: GPB1	pg. 40 / webcode: GPR1
		PRODUCT	SPECIFICATION	NS	_
Styles	GRIP STRUT⊚ Plank & Walkway, Heavy-Duty Plank & Walkway	PERF-O GRIP⊚ Plank & Walkway, TRACTION TREAD <sub>™</sub> Planks	GRATE-LOCK <sub>®</sub> Plank with Grip or Smooth Surface	DIAMONDBACK⊚ Solid or Vented	HD Series Plank Grooved or Smooth Surface
Materials	Plain, Galvanized and Stainless Steel, Aluminum	Plain and Galvanized Steel, Aluminum	Galvanized Steel	Aluminum 6061-T6	Aluminum
Heights/Depths	Plank: 1-1/2", 2", 2-1/2", 3" Walkway: 4-1/2" HD Plank: 2" HD Walkway: 5"	Plank: 1-1/2, 2" Walkway: 5"	1-1/2", 2-1/2", 3" (4" special order)	1", 1-1/2", 2"	3/4", 1", 1-1/2"
Widths	Plank: 4-3/4", 7", 9-1/2", 11", 18-3/4", 24" Walkway: 24" HD Plank: 9-1/4" HD Walkway: 30"	Plank: 5", 7", 10", 12", 18" Walkway: 24, 30", 36"	9", 12"	6", 12"	6"
Lengths	10' or 12' (longer by special order)	10', 12' (longer by special order)	12', 20', 24' (2-1/2" Ht.), 12' (1-1/2" Ht.), 24' (3" Ht.)	12'	20', 26'
QR Code (Scan using a QR Reader on your smart phone)					



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# PLANK GRATING

End & Top Views

### GRIP STRUT. PLANK & WALKWAY

WEB CODE: GPS1

GRIP STRUT® has a non-slip diamond surface that is ideal for safety applications where mud, ice, snow, oil and detergents can create hazardous walking conditions. In addition to low material cost and nominal installation cost, GRIP STRUT® provides long-term value with rust-resisting materials and choices.

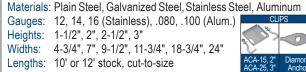


### **GRIP STRUT**<sup>®</sup> **PLANK**

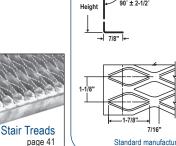
The surface of the planks have diamond-shaped openings with serrated edges, making them slip resistant in every direction under practically all conditions. GRIP STRUT® is also available in stair treads and ladder rungs. See page 42 for more details on our ladder rungs.

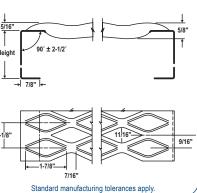
**GRIP STRUT**<sub>®</sub>

#### **PRODUCT OPTIONS**









LOAD	ТА	BLE	: 2	۰DI	$\Delta N$		JD	PL		ЛK	(4-;	3/4	" Wi	dth	)			]	LOA	<u>.</u> D	TA	ЗLI	=: -	4-□	IAN			) PL		JK (	9-1/	2" W	/idth	1)
Item Ht.	#/LF								Clear	Span									Item	Ht.	#/LF								Clea	r Span				
Number (mm	) (kg/m)	2'	2"6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10' 11	' 12'		Number	Ht. (mm)	#/LF (kg/m)		2' 2	'6" 3	3'6	" 4'	4'6	" 5'	5'6"	6' 6'6	6" 7'	7'6"	8'	9'
					S	STEE	L 14	GAL	JGE									1								STEE	EL 14	1 GAI	JGE					
		U 1324	849	591	435	334	265	215	179	151								1				U	63	426 2	96 2 <sup>.</sup>	9 16	8 13	4 109	90	77	1011 4	011	7 .	
1-1/2	23	D .06	.10	.14	.20	.26	.32	.40	.49	.58	10' ai	nd 12'	lengths a	availat	ole for i	most size	5.	İ		1-1/2"	36"	D	06	.10	14 .:	20 .2	6.3	3 .41	.50	.59	Galvaniz	2' length ed availa	s avalla ble in 1	Die to 4 dai
24021514 (38.1)	" 2.3" ) (3.42)	C 524	420	_	301	265	_	_	195	179	Galva	anized	availabl	e in 14 m for r	gauge	e and 12 nformation	lauge.		24041514	1-1/2" (38.1)	(5.36)	C 5	25	421 3	52 30	)3 26	6 23	8 215	197	182				
		D .05	.08	.11		.20	.26	-	.39	.47	VISILI		1015.001			IIUIIIIduui							05			6					√isit mcn	nichols.c	om for	more
	+	U 2198	1409	980	721	553	438	-	295	248	212	184	161 1	142	113	93								.00[ .	<u>.   .</u>	STE								
		D .06	.09	.13		.23	.29	.35	.43	.51	.60	.70	· ·	.92 1	.18 1								06	581 4	)5 29	-	1	-		104 8	39 77	7 67	60	-
24022014 200 8	2.6" ) (3.87)	C 870	_											-	-					1 1/0"	5.0"		07	_	_	_	8.3				76 .89	+ +	1.17	Ur - Ur (Ib)
(00.0)	(0.07)	- 010	697		499	438	390	352	321	_						183			24041512	1-1/2" (38.1)	(7.44)		-	575 4	-		_			246 22		<u> </u>	180 0	- Co
		D .04	.07	.10	.14	.18	.23		.34	.41	.48	.56	.65	.74	.94 1	1.18				()	· /		06				3.2				61 .71	1.82	.94	) - De
		11 4754	4400	700	_	6TEE 443		286		000	470	440	404	140				1								_	_		<u> </u>		·	<u> </u>	.94	74
		U 1751	1123				351		237	200				116	U - Uı	niform Lo:	ıd							896 6	_		_	_			_		-	_
24021512 1-1/2	" 3.2" ) (4.76)	D .07	.11	.15		.27	.35	.43	.52	.62	.74	.86		.14	(lbs/S	SF)			24042012	2" (50.8)	5.4"		05		_	6	-				55 .65	· · · ·		1.10
(38.1)	) (4.70)		556		399	350	313	283	258	238				183	D - De	oncentrate eflection (	nches)			(50.8)	(8.04)		-	887 74							_	++		264
		D .05	.08	.12		.22	.28	.34	.42	.50	.59	.69		.91								D	04		)9 .		6 .2	-	-		44 .52	2 .60	.68	.88
		U 2792	1790	1245	917	703	557	453	375	317	271	235	205 1	181	145	119 9	9 85					-	00	ST/		SS S		_ 304	10			1		
24021512 2"	3.6"	D .05	.08	.11	.16	.20	.26	.32	.39	.46	.55	.64	.73	.84 1	.07 1	1.34 1.6	4 1.98			01	0.01			462 3			3 14				71 59	기 히 Spar	ıs in blu	e sha
(50.8)	3.6" ) (5.36)	C 1105	886	739	635	557	496	448	409	376	348	325	305 2	287	258	235 21	6 201	]	28042016	2" (50.8)	3.2		05	.08 . 457 3							55 .61 34 165	defle	is in blu ction of	1/4" (
		D .04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.67	.86 1	1.07 1.3	1 1.58	1		(00.0)	(1.10)	D	04	06	19 .		6 .2				44 .49		rm load	of 10
			ALUN	ЛINL	JM A	<b>ALLO</b>	Y 50	)52 <sup>-</sup>	12 ¢	SAUC	GE .O	80"											AL		IUM	ALLO		152		AUGE				
		U 1463	937	650	478	366	289	234	194	162	138	119						]				U 4	99	319 2	22 16	3 12	4 9	8						
270220- 2"	92"	D .08	.13	.18	.25	.33	.42	.52	.63	.74	.87	1.02	Spans	in blue	e shad	led area p	roduce			1_1/2"	1 28"	D	10	.15	22 .	31 .4	0.5	1			This	technical	linform	ation
270220- 2" A10 (50.8)	.92" ) (1.37)	C 579	463	386	331	290	257	232	211	192	177	165				r less und ) lbs/SF.	er		270415	1-1/2" (38.1)	(1.90)			316 2				_			refere	ence for (	evaluat	ion by
		D .06	.10	.15		.27	.34		.51	.59	_	.80	JIIII		01 100					. /	. ,				_	25 .3	_	-				ons only, eir indepe		

LOA	D.	ΤΑΙ	B	LE:	З-	DIA	١M		D	PL	AN.	JК	(7"	Wic	lth)					
Item	Ht.	#/LF									Clear	Span								
Number	(mm)	(kg/m)		2'	2"6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'
			_				S	TEEL	. 14	GAL	JGE									
			U	899	577	402	269	227	180	147	122	103								
24031514	1-1/2"	3.0"	D	.06	.10	.14	.20	.26	.33	.40	.49	.59	10'a	ind 12	length	s availi	able for	most	sizes.	~~
24031314	(38.1)	(4.46)	С	524	421	351	302	265	237	214	196	180	Visit	mcnic	hols.c	om for	more	je anu informa	12 gau tion.	ye.
			D	.05	.08	.11	.16	.21	.26	.32	.39	.47								
			U	1492	957	665	490	376	298	242	201	169	145	125	110	97	77	63		
24032014	2"	3.2"	D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.61	.71	.81	.93	1.19	1.49		
24032014	(50.8)	(4.76)	С	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		
			_				S	TEEL	. 12	GAL	JGE									
			U	1189	763	532	392	301	239	195	162	137	118	102	90	79				
24031512	1-1/2"	4.1"	D	.07	.11	.15	.21	.27	.35	.43	.52	.63	.74	.87	1.00	1.15	U-Ur	niform L	.oad (# ated Lo	SF
24031312	(38.1)	(6.10)	С	694	556	465	400	352	314	284	260	240	223	208	196	185			aleu Lu 1 (inche	
			D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.69	.80	.92				
			_		<b>ALUN</b>	1INU	M Al	LOY	<u>′ 50</u> !	52 1	1 <u>2 G</u>	AUG	Е.O	80"						
			U	993	636	441	324	248	196	159	131	110	93	80						
270320-	2"	1.15"	D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.86	1.00				ded are r less u	a produ	lce
A10	(50.8)	(1.71)	С	579	463	386	331	290	257	232	211	192	177	165				) lbs/SF		
			D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69	.80						

Item	Ht.	#/LF									Clea	r Spa	an								
Number	(mm)	(kg/m)		2'	2"6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
			_				_	TEEL	. 14	GAL											
			U	663	426	296	219	168	134	109	90	77	10'	and 1	longth		lable fo	r moot			
24041514	1-1/2" (38.1)	3.6"	D	.06	.10	.14	.20	.26	.33	.41	.50	.59					14 gau			auge.	
24041314	(38.1)	(5.36)	С	525	421	352	303	266	238	215	197	182	1/10	it moni	oholo .	aam fa	r more	inform	otion		
			D	.05	.08	.11	.16	.21	.26	.33	.40	.47			chois.	COILI	ITTOLE	IIIOIII	duon.		
			_				S	TEEL	. 12	GAL	JGE										
			U	906	581	405	298	229	182	148	123	104	89	77	67	60	U - Un	iform I	ood		
24041512	1-1/2"	5.0"	D	.07	.11	.16	.21	.28	.36	.44	.54	.64	.76	.89	1.02	1.17	(lb	s/SF)			
24041012	(38.1)	(7.44)	С	718	575	481	413	363	324	292	267	246	228	213	200	189	C-Co	ncentr floction	ated L n (inch	oad	
			D	.06	.09	.13	.17	.23	.29	.35	.43	.52	.61	.71	.82	.94	<b>D</b> -D6	IIECUUI	i (inci)	63)	
			U	1398	896	624	460	353	280	228	189	160	137	119	104	92	74	61	51	43	
24042012	2"	5.4"	D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.65	.75	.85	1.10	1.38	1.69	2.03	
24042012	2" (50.8)	(8.04)	С	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	
					S		<b>NLES</b>			304	10	GA	UGE								
			U	720	462	322	238	183	145	118	98	83		59	Cas	nn in hI	lue ehe	ہم امما			
28042016	2" (50.8)	3.2" (4.76)	D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.61	defle	ection o	lue sha of 1/4" (	oeu ar or less	ea pro under	auce	
	(50.8)	(4.76)	C	570 .04	457 .06	382	329	289	258	234 .26	214 .31	197 .38	184	165 .49	unifo	orm loa	d of 10	0 lbs/S	SF.		
I			ש	.04		.09 11NI	M A	. 10 1 OY	<u>   .21</u> ′  50	. <u>20</u> 52 ′			3F (	.49 180							
			U	499	319	222	163	124	98							_					
	1-1/2"	1.28"	D	.10	.15	.22	.31	.40	.51					This te	echnica	al inforr	nation	nrovide	ed is a		
	(38.1)	(1.90)	С	395	316	263	226	197	175					This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk.							
			D	.08	.12	.18	.25	.32	.41												
			U	732	468	325	239	183	145	117	97	81	69	McNI	CHOLS	S shall	have n	o respo	onsibili	ty	
070400	2"	1.37"	D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.87	MCNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use							
270420	(50.8)	(2.03)	C	568	463	386	331	290	257	232	211	192	177	of gra						-	
			D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69								

LOAD U 1¥ deflection (D)

#### UNIFORM LOAD (U)

application to all grating: Maximum load (Ib./SF) permitted by flexural stress in side rail or grating strut, whichever is lower, applied to entire grating area (full-width by clear span) between supports. DEFLECTION (D) in all walkways/ both side rails.

planks: Deflection (in) correspond-ing to maximum load (U) or (C) permitted by flexural stress in side rail or grating strut, whichever is lower, applied as defined in Figs. 1 or 2, and 3.



#### igure 2 CONCENTRATED LOAD (C) application to all walkways/

planks: Maximum load (lb) permitted by flexural stress in side rail or grating strut, whichever is lower, applied transversely to total width of grating at mid-span and assumed to be carried equally by

DEFLECTION (D) in all walkways planks: Deflection (in) correspond-ing to maximum load (U) or (C) permitted by flexural stress in side rail or grating strut, whichever is lower, applied.

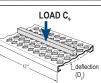


Figure 3 CONCENTRATED LOAD (C,) application to grating surface struts of all walkways/planks: Maximum load (lb./ft,) permitted by flexural stress in grating strut, ap-plied longitudinally to a 1 ft. length of grating at mid-width.

STRUT DEFLECTION (D) in all walkways/planks: Deflection (in) corresponding to maximum concentrated strut load (Cs), permitted by flexural stress in grating surface strut, applied longitudinally to a 1 ft. length of grating at mid-width.



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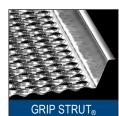
# PLANK GRATING

### **GRIP STRUT**<sub>0</sub> **PLANK & WALKWAY** (Continued)

LOA		ΤΑΙ	크	LE:	5-	DIA			D	PL				-3/4	1" V	Vidt	h)			
Item Number	Ht. (mm)	#/LF (kg/m)		2'	2"6"	3'	3'6"	4'	4'6"	5'	5'6"	r Spar 6'	า 6'6"	7'	7'6"	8'	9'	10'	11'	12'
		1	U	536	344	240	S 177	136	. <u>14</u> 108	GAL 88	JGE 74	62								
	4.40	4.01	D	.06	.10	.14	.20	.26	.33	.41	.50	.60	10' a	and 12'	lenath	s avail:	able for	most	sizes.	
24051514	(38.1)	4.2"	C	525	422	353	304	267	239	216	198	183	Galv	anized	l availa	ble in '	14 gau	ge and	12 gau	ige.
	()	N7	D	.05	.08	.12	.16	.21	.26	.33	.40	.48	VISI	menic	nois.c	omioi	more	Iniorma	auon.	
		-	U	890	571	397	293	225	178	145	120	102	87	76	66	59	47	1		
	2"	44"	D	.06	.09	.13	.17	.23	.29	.36		.52	.61	.71	.83	.95	1.21			
24052014	(50.8)	(6.55)	С	707	699	584	502	440	393	355	324	299	277	259	243	230	207	ĺ		
			D	.04	.07	.10	.14	.18	.23	.29	.35	.42	.49	.57	.66	.76	.97			
		1	U	1021	655	456	336	258	204	166	138	116	100	86	76	67	54	44	]	
04050544	2-1/2"	4.7"	D	.04	.06	.08	.11	.14	.18	.23	.28	.33	.39	.45	.52	.60	.77	.96	1	
24052514	(63.5)	(6.99)	С	707	707	669	575	505	450	407	371	342	317	296	278	262	236	216	1	
			D	.02	.04	.06	.09	.12	.15	.18	.22	.26	.31	.36	.42	.48	.62	.77	]	
					(=0		S	TEEL	. 12	GAL										_
			U	710	456	318	235	181	144	117	98	83	71	62	55	49	<b>U</b> - Ur	niform l	Load	
24051512	1-1/2" (38,1)	5.9" (8.78)	D	.07	.11	.15	.21	.28	.35	.44	.53	.64	.76	.89	1.03	1.18	(lbs/S		ated lo	od.
	(30.1)	(0.70)	C	695	558	467	402	354	317	287	263	244	227	213	201	190			aleu io n (inche	
			D	.05 1131	.08 725	.12 505	.17 372	.22 286	.28 227	.35 185	.43 154	.51	.60 111	.71 97	.82 85	.95 75		50	40	
			U D	.05	.08	.11	.16	.20	.26	.32	.39	130	.56	97 .65	85 .75	75 .86	60 1.11	50 1.39		
24052012	2" (50.8)	6.2" (9.23)	D C	.05	.08 888	742	638	.20 561	.26 501	.32 453	.39 414	.47 382	.50 355	.05 332	./5 312	.80 295	266	243		
	(00.0)	(0.20)	D	.04	000	.09	.12	.16	.21	455	.31	.38	.44	.52	.60	295	200	243	1.36	
			U	1691	1083	753	554	425	337	273	· ·	.30	.44	123	109	.09	.09	59	59	5
	0.4.01	0.01	D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68	.87	1.09		1.6
24052512	(63.5)	6.6"	C	1115	1115	1106	950	833	742	669		561	519	484	453	426	382	347	319	29
	()	(* * <i>)</i>	D	.02	.04	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.55	.70	.87	1.06	1.2
				.02		STAI	NLES	IS ST	EEL	304		GAI	JGE		. 10	.00		.01	1.00	1.2
			U	583	374	261	192	148	118	96	80	68	58	48						
28052016	2"	3.7"	D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.61			lue sha of 1/4" (			duce
20002010	2 (50.8)	(5.51)	С	464	458	323	330	290	259			199	185	165			id of 10			
			D	.03	.06	.09	.12	.16	.21	.26	.32	.38	.45	.49						_
		1	U	403			M A 132		′ 50	52 <i>°</i>	12 G	AUG	GE .C	180"						
			-		255	179	.31	100												
270515- A12	(38.1)	1.49" (2.22)	D	.10	.15			.40												
	(30.1)	(2.22)	C	395	316	263	226	197												
		-	D	.08 592	.12 379	.18 263	.25 193	.32 148	117	05	70	1								
	0.1		D				.25	.33	117	95	78 .63									
270520	2" (50.8)	1.59" (2.36)	D C	.08 466	.13 466	.18 386	.25 331	.33 290	.42 257	.52	.63									
	(30.0)	(2.00)	D	400		.15	.20	.290	.34	232	.51									
			D	.05	.10	.15	.20	.27	.34	.42	.51									

LOA	D	TA	В	LE:	8-	DIA	١		D	PL	AN.	JΚ	(18	-3/	4" V	Vid	th)								
Item	JHt.	#/ĻF		0	0.00	01	0101		4101		Clear				7101				1.4.4						
Number	(mm)	(kg/m)		2'	2"6"	3'	3'6"	4' IEEL	4'6" 14 (	5' 3AU	5'6"	6'	6'6"	ſ	7'6"	8'	9'	10'	11'	12					
			U	540	358	250	184	142	113	92	76	65	55	48	42										
	2"	6.2"	D	.48	.37	.34		.34		.43		.58	.66	.77	.87				d area ion of '						
24082014	(50.8)	6.3" (9.4)	С	437	349	292	251	220		179	164	152	141	132	124	les	s unde	er unifo	irm loa						
			D	.24	.21	.20		.20	.21	.23		.29		.36	.40	100	) lbs/S	iF.							
					1		S	TEEL	12 (	GAU															
			U	446	287	201	148	115	91	75	63	53	46	40											
04004540	1-1/2"	8.5"	D	.27	.22	.22	.26	.32	.39	.47	.56	.67	.80	.92	U - Uniform Load (lbs/SF) C - Concentrated Load										
24081512	(38.1)	(12.6)	С	359	280	235	203	179	161	146	135	125	117	110	C - Concentrated Load D - deflection (inches)										
			D	.12	.12	.12	.14	.16	.19	.22	.26	.30	.35	.40		D - deflection (inches)									
			U	710	456	318	235	181	144	117	98	83	71	62	54	48									
04000040	2"	8.9"	D	.31	.25	.23	.25	.28	.31	.37	.44	.51	.60	.68	.79	.90	1								
24082012	(50.8)	(13.2)	U	554	444	371	319	282	253	229	210	194	181	169	160	151	1								
			D	.17	.15	.14	.15	.16	.17	.19	.22	.25	.28	.32	.36	.40									
				Α	LUN	IINU	M AL	LOY	505	52 1	2 G/	٩UG	E .08	30"											
			U	308	237	165	121	93	73	59	49														
270820-	2"	2.20"	D	.54	.50	.44	.44	.47	.53	.61	.71	10' a	and 12	length	ths available for most sizes. ilable in 14 gauge and 12 gauge. <b>com</b> for more information.										
A10	(50.8)	(3.27)	С	290	232	193	166	145	129	116	106	Visit	mcnic	hols.c	com for	14 gai r more	uge ar e infori	nation	auge.						
			D	.32	.28	.27	.27	.28	.30	.32	.36														

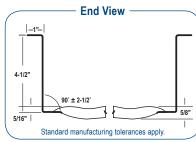
LOA	D	TA	E	BLE	: 1	0-0		MC	NC		⊃L/		IK (	24	" vv	idth	າງ			
Item	, Ht.	#/ĻF									Clear									
Number	(mm)	(kg/m)		2'	2"6"	3'	3'6"	4'	4'6"	5'	5'6"		6'6"	7'	7'6"	8'	9'	10'	11'	12'
								S	TEEL	. 14	GAL	JGE								
			U	300	300	228	168	128	102	82	68	57	49	42						
24102014	2"	7.4"	D	.48	.42	.38	.38	.41	.44	.49	.55	.62	.70		sizes	s. Galv	length anized	availa	ıble in	14
24102014	(50.8)	(11.0)	С	400	400	343	294	257	229	206	187	172	158	147	gaug	e and	12 gau r more	ige. Vi	sit mc	nich-
			D	.34	.35	.32	.30	.29	.29	.30	.31	.33	.35	.37	010.0		111010	inioni	100011.	
			U	475	416	289	212	162	128	104	86	72	62	53	46	~				
24102012	2"	10.4"	D	.39	.33	.31	.31	.34	.38	.44	.48	.56	.63	.71		prod	ns in b luce de	flectio	n of 1/	4" or
24102012	(38.1)	(15.5)	С	650	520	434	372	325	289	260	237	217	200	186	174		under lbs/SF		n load	of
			D	.26	.22	.19	.20	.20	.21	.22	.23	.25	.28	.31	.34	100	100/01			
			U	475	475	475	392	300	237	192	159	133	114	98	85	75	59	48		
24103012	3"	11.1"	D	.38	.39	.42	.38	.36	.34	.35	.37	.39	.43	.47	.52	.58	.70	.85		
24103012	(76.2)	(16.5)	С	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		



# GRIP STRUT WALKWAY WEB CODE: GPP4

GRIP STRUT® Walkway Planks offer the same high slip resistance of GRIP STRUT® Planks. GRIP STRUT® Walkways meet OSHA requirements for toe boards on elevated structures.

LOA		ТА	B	LE	: 10	D-D				$\sim$	VAL	.К\	NA	Υc	24"	Wi	dth	)		
Item	Depth	#/LF									Clear									
Number	(mim)	(kg/m)		2'	2"6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'
							5	STEEL	_ 14	GAL	JGE									
			U	300	300	300	300	300	263	213	176	148	126	109	95	83	66	53	43	
24104514	4-1/2"	8.9"	D	.41	.41	.42	.45	.48	.47	.42	.40	.40	.41	.43	.45	.47	.55	.64	.75	
24104014	Depth	8.9" (13.2)	С	400	400	400	400	400	400	400	400	400	400	380	355	333	296	266	242	
		(13.2) (	D	.32	.33	.33	.33	.34	.35	.36	.38	.39	.41	.42	.41	.41	.42	.44	.47	
								STEEI	_ 12	GAL	JGE									
			U	475	475	475	475	475	420	340	281	236	201	173	151	133	105	85	70	59
24104512	4-1/2"	1 400	D	.37	.37	.38	.40	.43	.43	.39	.37	.37	.37	.39	.41	.44	.51	.59	.69	.80
24104012	Depth	(18.6)	С	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



PRODUCT OPTIONS

Materials:Galvanized SteelGauges:12, 14Widths:24"Lengths:10' or 12'Depths:4-1/2"





### PLANK STAIR TREADS

McNICHOLS® Plank Grating Treads are a one-piece construction from formed and punched sheet metal. Most plank grating treads are lightweight and offer significantly higher slip resistance surfaces than bar grating treads. Plank treads have a variety of surface openings that are diamond, slotted or round shaped. They are available in plain steel, galvanized steel, stainless steel or aluminum in a variety of heights, widths and lengths.

STANDARD SIZES &

RECOMMENDED SPANS

STEEL 14 Ga

WITH ABRASIVE NOSING - WIDTH

3-Diamond - 8-1/8"

4-Diamond - 10-1/2"

3-Diamond - 8-1/8"

4-Diamond - 10-1/2"

3-Diamond - 8-1/8"

4-Diamond - 10-1/2

STANDARD -WIDTH

2-Diamond - 4-3/4"

4-Diamond - 9-1/2"

5-Diamond - 11-3/4" 2-Diamond - 4-3/4"

3-Diamond - 7"

3-Diamond - 7"

4-Diamond - 9-1/2"

5-Diamond - 11-3/4"

2-Diamond - 4-3/4"

4-Diamond - 9-1/2"

5-Diamond - 11-3/4" STAINLESS STEEL Type 304 16 ga. 4-Diamond - 9-1/2"

5-Diamond - 11-3/4"

3-Diamond - 7"

ALUMINUM .080"



#### GRIP STRUT® (WEB CODE: STOT)

GRIP STRUT® Plank Grating Stair Treads offer one of the most slipresistant surfaces in the industry. The tread's surface has diamondshaped openings with serrated edges, making them slip resistant in every direction. Planks have a high strength-to-weight performance that offers a high load capacity and long life.

For more details on GRIP STRUT® Plank Grating please see page 34.

SPAN HEIGHT

1-1/2"

2'

2'

2'

UP

to

48"

UP

to 48"

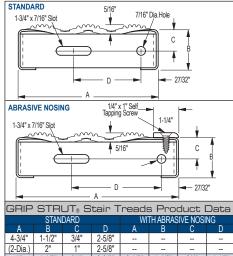
UP

to 36"

UP to

36'

With Cast Abrasive Nosing



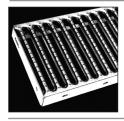
4-3/4"	1-1/2"	3/4"	2-5/8"					
(2-Dia.)	2"	1"	2-5/8"					
7"	1-1/2"	3/4"	3-3/8"	8-1/8"	1-1/2"	3/4"	4-1/2"	
(3-Dia.)	2"	1"	3-3/8"	(3-Dia.)	2"	1"	4-1/2"	
9-1/2"	1-1/2"	3/4"	5-7/8"	10-1/2"	1-1/2"	3/4"	6-7/8"	
(4-Dia.)	2"	1"	5-7/8"	(4-Dia.)	2"	1"	6-7/8"	
11-3/4"	1-1/2"	3/4"	8-1/8"					
(5-Dia.)	2"	1"	8-1/8"					
				s Steel. Sta			lable in	



#### **PERF-O GRIP**® WEB CODE: ST01

PERF-O GRIP® Plank Grating Stair Treads can help prevent injuries by providing a slip resistant surface of large debossed holes and smaller embossed button holes. The tread's surface has a high load capacity, long life and high strength-to-weight performance.

For more details on PERF-O GRIP® Plank Grating please see page 37.



#### GRATE-LOCK® WEB CODE: ST01

**GRATE-LOCK**<sup>®</sup> Plank Grating Stair Treads have a surface of long, round-end slots that run across the tread width that results in an impressive open area. The large opening permits air and light to pass through and has drainage properties.

For more details on **GRATE-LOCK**® Plank Grating please see page 39.

#### TRACTION TREAD WEB CODE: STOT

**TRACTION TREAD**<sup>™</sup> Plank Treads feature a surface of hundreds of raised perforated buttons with debossed holes that provide slipresistance in all directions. The treads are perfectly suited for ADA compliant applications.

For more details on TRACTION TREAD THE Plank Grating please see page 38.

		IONS

Materials:	Plain Steel, Galvanized Steel, Aluminum or Stainless Steel
Gauges:	12, 14, .080 (Aluminum), 16 (Stainless)
Heights:	1-1/2", 2"
Widths:	4-3/4" to 11-3/4"
Lengths/Span:	Up to 48" steel; up to 36" alum or SS

#### LOAD TABLE: GRIP STRUT, TREADS

Load table data below takes eccentric loads into consideration. Although load values include allowances for normal impact conditions and usual pedestrian traffic, be sure to make provisions in the structural design for special uses and load involving unusual impact forces or vibratory forces. Load-carrying capacity of stair treads increases as side channel height and gauge of material increases.

			2-DI	AMON	ID :	3-DIAN	NONE	) 4.	-DIAN	IOND	5-0	DIAMC	OND
Stee	el Ga	auge		14		1	4		14	ļ		14	
Spar	۱	Ht.	U	0	)	U	С		U	С	l		С
2'0"	1	-1/2"	119	1 4	72	761	44	3	549	435	4	34	425
20	2		1978	8 7	'83	1262	73	7	911	604	7	21	573
2'6"	1	-1/2"	764	4 3	78	488	35	6	355	349	2	78	342
20	2		1268	3 6	511	810	59	0	584	578	4	63	566
3'0"		-1/2"	532		15	340	30	-	245	300	_	94	300
	2		88		24	563	49	_	407	483		22	473
4'0" *	2		49	8 3	94	318	37	2	230	364	1	82	356
		2 DIAM	- OND	3 DIAN	- IOND	4	I-DIAI	MONE	)	5	-DIAI	NONE	)
Mate	rial	Alu	m.	Alı	ım.	Alı	ım.	Stair	nless	Alu	ım.	Stair	nless
Gau	ge	30.	80"	30.	30"	30.	30"	30	)4	30.	30"	30	)4
Span	Ht.	U	С	U	С	U	С	U	С	U	С	U	С
2'0"	2"	1328	526	862	503	607	481	610	483	396	388	394	386
2'6"	2"	850	420	551	402	388	392	390	387	253	388	252	381
3'0"	2"	590	350	383	335	270	327	271	323	176	321	175	319
4'0"	2"	332	263	215	252	152	245	152	244	99	241	98	241
* Inter	medi	ate strir	nger is r	ecomn	nended	for spa	ans ove	er 4'.					

PRODUCT OPTIONS		
Materials:	Plain Steel, Galvanized Steel, Aluminum	
Gauges:	13	
Heights:	1-1/2", 2"	
Widths:	5", 7", 10", 12"	
Lengths/Span:	24", 30", 36"	

#### **PRODUCT OPTIONS**

Materials:	Galvanized Steel
Gauges:	14, 18
Surfaces:	Non-skid or Smooth
Heights:	1-1/2", 2-1/2"
Widths:	9"
Lengths/Span:	24" 30" 36" 48"
Lengths/Span:	24", 30", 36", 48"

#### PRODUCT OPTIONS

Materials:	Galvanized Steel or Aluminum
Gauges:	11, 13, .125 (Aluminum)
Heights:	2", 1-1/2"
Widths:	7", 10", 12"
Lengths/Span:	24", 30", 36", 48"



### LADDER RUNGS

When strength, safety and weight are considerations McNICHOLS® Ladder Rungs are the product of choice. All styles have varying degrees of slip resistance to help provide dependable footing indoors and out. WEB CODE: LR01



#### DIAMONDBACK® RUNGS

DIAMONDBACK® Ladder Rungs are offered in .109" aluminum, available in solid or vented. Ladder Rungs are 1.39" high x 1.75" wide and available in 144" lengths or cut-to-size. Radius end cut available by special order. Solid serrated surface also available.

	PRODUC		NS
Material: Gauges: Height:	6061-T6 Aluminum .109 1.39"	Widths: Lengths: Item Number:	1.75" 144" T7LR517012 - Diamondback Solid



# **TRACTION TREAD** RUNGS

TRACTION TREAD ... Ladder Rungs are available in plain steel, stainless steel, galvanized steel or aluminum. They are available in 1.25" to 2.25" widths, 48.75" or 60" lengths, and range from 1.125" to 1.50" high. TRACTION TREAD ... Ladder Rungs come in 2, 3 or 4 button rows.

	PRODUC	τ ορτις	DNS
Materials:	Plain Steel, Galvanized Steel,		1.25", 1.625", 2.25" 48.75", 60"
Gauges:	Aluminum, Stainless Steel 11, 13 - Steel 14, 16 - Stainless Steel	M6L6ST2460 -	2 Row, 11 Ga. Plain Steel 3 Row, 11 Ga. Plain Steel
Heights:	.125 - Aluminum 1.125", 1.50"		



# **GRIP STRUT® RUNGS**

GRIP STRUT® Ladder Rungs have channels of diamonds that provide high traction footing in all directions. These aggressively treated rungs come in plain steel or galvanized and are 1.125" high. Standard lengths 120" or cut-to-size, standard width is 2.50". Diamonds can run the opposite direction by special order.

# **PRODUCT OPTIONS**

Pre-Galvanized, Materials: Plain Steel 14 Gauge: Height: 1.25"

Widths: Lengths:

2.50" 120" Item Number: 2601101410 -1 Diamond Plain Steel



# LADDER RUNG COVERS

GRIP TIGHT® Rung Covers are constructed with slip resistant aluminum oxide grit over 16 gauge pre-galvanized metal. Where open area is not a concern, GRIP TIGHT® Covers are a great option. These rungs are stocked in .75" or 1" heights, in 120" lengths or cut-to-size.

	PRODUC		IS
Material:	Aluminum Grit on	Widths:	.75", 1"
	Galvanized Steel	Lengths:	120"
Gauge:	16		6MLR347010 -
Heights:	.75", 1"		.75" x .75" x 120"

# CLIPS & FASTENERS

Shown below is partial listing of our clips and fasteners. Please see mcnichols.com/products/accessories/clips-anchors-etc/ for the complete selection.



spacing)

a flat, bearing pad area facing up to Fiberglass structural members, protecting surfaces TYPE Z/J - Stainless 316 or 304 (1", 1-1/2" or 2") Molded Fiberglass; secures planks to support frames. No hardware. For fastener and hardware specify Type J. TYPE F - Stainless 316 (1", 1-1/2" or 2") For Molded Fiberglass end planks to join side bars that are butted end to end. TYPE MT - Stainless Steel 316 (1", 1-1/2", or 2") Pultruded Fiberglass T-Bar Grating; to secure planks to support frame using two adjacent bars for support. Specify bar spacing, height. TYPE GM - Galvanized Carbon Steel. For mounting other devices to grating surface. 1/2" x 3" stud with patented base includes 1/2" nut and plate which sits above the grating and is tightened down. Available in Stainless 316. TYPE CB - Galvanized Steel, Aluminum, or Stainless Steel (specify). Saddle Clip is a positive fastener for welded, press-locked, locked by swaging gratings with bearing bar spacing of 15/16" (CA) or 1-3/16" (CB). U-shaped fastener is placed over two main bearing bars and screwed to grating support. (Screw, nut, washer, etc. NOT included.) TYPE GG - Galvanized, Stainless Steel or Aluminum (for 1" to 5" bar height; 1/4" to 6" flange or structural member thickness-specify). Hold Down Fastener attaches grating to structural shape in a horizontal plane. Standard GG fasteners are for grating with 7/8" to 1" gap between bearing bars (inquire for closer

TYPE FSSGF - Stainless Steel fastener has specially formed G-Clip bottom with



TYPE SSGC - Stainless Steel 316 grating fastener used to fasten close-mesh bar grating to structural shapes, where the structural flange is in a horizontal plane. Unique narrow width accommodates very narrow (3/8") grating slots. (Special order.)
TYPE M Stainlass 316 (1" 1 1/2" or 2") Moldod Eiborglass; socures planks to

Molded Fiberglass; secures planks to support frame using two adjacent bars for support.

TYPE RT/RI - Stainless Steel 316 (any height) hold down fastener for Pultruded Fiberglass T-Bar or I-Bar that slides between two bars and holds the bottom flange down to support frame. Fastener is below walking surface. Specify bar spacing, type.

TYPE GN - Narrow Galvanized Carbon Steel fastens 15/16" spacing bar grating to structural shapes where structural flange is in a horizontal plane (Special order.)

TYPE GC - Galvanized or Stainless Steel. Hold Down Fastener for smaller openings between two adjacent bars or plate to existing structure/frame. (Cap screw not included.)

TYPE GFSS-1 Has stainless steel investment casting body. Bracket of 14 gauge 304 Stainless. One offset wing fits spacing between bars 5/8" to 1-3/8". 302 Stainless screw accommodates up to 1-3/4" of grating depth.

TYPE GFS (Not shown) Cast malleable iron body galvanized. Designed to fit bearing bar thicknesses 1/4", 3/16", and 1/8" at 1-3/16" centers. Stepped tail allows fastener to fit various bearing bar heights to 2-1/4" and beam flanges from 1/8"-3/4". (Screw included.)

#### 800.237.3820 mcnichols.com |