





OPEN BAR GRATING

Description

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Cogan open bar grating will be your choice for mezzanine flooring than can handle heavy industrial use. Open bar grating allows for light and sprinkler penetration. Available in a standard black paint finish.

PRODUCT INFORMATION

Specifications

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Width	3'-0"	Aller. Aller.
Length	4'-0", 8'-0", 12'-0", 16'-0", 20'-0", 24'-0"	
Model Type	19-W-4	
Finish	Painted black or Hot-Dipped Galvanized	
Application	Flooring	
	ED	
Black	Hot-Dipped Galvanized	

DETAILS

WELDED (W) 1-3/16" C/C Bearing Bars



Cross Rods 4" C/C Cross Rods 2" C/C NON-SERRATED & SERRATED CAT#: OBG1/8 (1/8" open bar grating) OBG3/16 (3/16" open bar grating)



FLOORING

U = safe uniform load, psf C = safe concentrated load, psf

E = modulus of elasticity, 29,000,000 psi

D = deflection, inches

DETAILS

Please consult the tables below for further information regarding properties and load capacity.

LOAD & DEFLECTION TABLE

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General: Loads and deflections are theorectical and based on static loading.

														trace 18		9,000,00	JU psi	
Bar	Symbol	Approx.	Sec. Wed	SPAN (Direction of Bearing Bar)							F = fiber stress, 18,000 psi Material: ASTM A-1011 standard							
Size	Symbol	Weight	Per PL Or Width		24*	30"	36*	42*	48*	54*				: Spans				
	19-W-4	3.9		U	355	227	158	116	89	70				e excee ad of 100				
3/4" x 1/8"	19-P-4	4.3	0.118	DC	0.099	0.155 284	0.223	0.304 203	0.397	0.503				strian con				
	19-P-2	5.2		ŏ	0.079	0.124	0.179	0.243	0.318	0.402				for other				
	19-W-4	5.6		U	533	341	237	174	133	105		er	ineer's	approva	1.			
3/4" x 3/16"	19-P-4	6.4	0.178	DC	0.099	0.155	0.223	0.304 305	0.397	0.503			Serra	ated Bar	s: For se	errated o	grating, the	
	19-P-2	7.8		Ď	533 0.079	426	0.179	0.243	266 0.318	237 0.402	60*	66*	depth	n of gratin	ng requi	red for a	specified	
	19-W-4	5.0		U	632	404	281	206	158	125	101	84		is 1/4° de	eper that	an that s	hown in	
1" x 1/8"	19-W-2	5.5	0.211	D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	the ta	able.				
1 4 1/2	19-P-4 19-P-2	5.4 6.3		C	632 0.060	505 0.093	421 0.134	361 0.182	316 0.238	281 0.302	253	230 0.451						
	19-W-4	7.2		Ŭ	947	606	421	309	237	187	152	125						
1" x 3/16"	19-W-2	7.8	0.316	D	0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563						
1 × 0/10	19-P-4 19-P-2	8.1 9.5		CD	947 0.060	758 0.093	632 0.134	541 0.182	474 0.238	421 0.302	379 0.372	344 0.451	72*	78*	84*			
	19-W-4	6.1		Ŭ	987	632	439	322	247	195	158	130	110	93	81			
1-1/4" x 1/8"	19-W-2	6.6	0.329	D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730			
1-1/4 × 1/0	19-P-4 19-P-2	6.8		CD	987 0.048	789	658 0.107	564	493 0.191	439 0.241	395 0.298	359 0.360	329 0.429	304	282 0.584			
	19-W-4	8.1 8.9		U	1480	947	658	483	370	292	237	196	164	140	121			
1-1/4" x 3/16"	19-W-2	9.5	0.493	D	0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730			
1-1/4 1 3/10	19-P-4	10.2	0.400	C	1480	1184	987	846	740	658	592	538	493	455	423	96*	108*	
	19-P-2 19-W-4	12.1		D	0.048	0.074 909	0.107	0.146	0.191	0.241 281	0.298	0.360	0.429	0.504	0.584	89	70	
1 1/2= - 1/0=	19-W-2	7.7	0.474	Ď	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006	
1-1/2" x 1/8"	19-P-4	7.9	0.4/4	c	1421	1137	947	812	711	632	568	517	474	437	406	355	316	
	19-P-2 19-W-4	9.2 10.5		DU	0.040 2132	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804	
4 4/00 - 0/400	19-W-2	11.2	0.711	Ď	0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006	
1-1/2" x 3/16"	19-P-4	11.8	0.711	С	2132	1705	1421	1218	1066	947	853	775	711	656	609	533	474	
	19-P-2 19-W-4	13.8 12.2		DU	0.040 2901	0.062 1857	0.089	0.122 947	0.159 725	0.201 573	0.248	0.300 384	0.358	0.420 275	0.487	0.636	0.804	
1 0/4= - 0/40=	19-W-2	12.8	0.967	Ď	0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862	
1-3/4" x 3/16"	19-P-4	13.5	0.967	C	2901	2321	1934	1658	1451	1289	1161	1055	967	893	829	725	645	
	19-P-2 19-W-4	15.4		DU	0.034 3789	0.053 2425	0.077	0.104	0.136	0.172	0.213	0.257 501	0.306	0.360	0.417 309	0.545	0.689	
0	19-W-4	14.5	1.000	D	0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754	
2" x 3/16"	19-P-4	15.2	1.263	C	3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	947	842	
	19-P-2	17.1		D	0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603	
	19-W-4 19-W-2	15.5 16.1	4 500	D	4796	3069 0.052	2132 0.074	1566	1199 0.132	947 0.168	767	634 0.250	533 0.298	454	392 0.406	300 0.530	237 0.670	
2-1/4" x 3/16"	19-P-4	16.8	1.599	C	4796	3837	3197	2741	2398	2132	1918	1744	1599	1476	1370	1199	1066	
	19-P-2	18.7		D	0.026	0.041	0.060	0.081	0.106	0.134	0.166	0.200	0.238	0.280	0.324	0.424	0.536	
	19-W-4 19-W-2	17.2 17.8		UD	5921 0.030	3789 0.047	2632 0.067	1933	1480 0.119	1170 0.151	947 0.186	783 0.225	658 0.268	561 0.315	483 0.365	370	292 0.603	
2-1/2" x 3/16"	19-P-4	18.5	1.974	č	5921	4737	3947	3383	2961	2632	2368	2153	1974	1822	1692	1480	1316	
	19-P-2	20.4		D	0.024	0.037	0.054	0.073	0.095	0.121	0.149	0.180	0.215	0.252	0.292	0.381	0.483	

W/P-19 PA	Note: W-Welded cross rods may extend 1/8" each side. Panels widths do not include these extensions.														
No. of Bars	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1/8* Bar	15/16	21/2	311/16	47/8	61/16	71/4	87/16	95/8	1013/16	12	133/16	$14^{3}/_{8}$	15%/16	16%	1715/10
3/16* Bar	13/8	29/16	33/4	415/16	61/8	75/16	81/z	911/16	107/8	121/16	131/4	147/14	15%	1613/16	18
No. of Bars	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1/8" Bar	191/8	205/16	211/2	2211/16	237/a	251/16	261/4	277/14	28 ⁵ /a	2913/16	31	323/16	333/8	34%/16	353/4
3/16° Bar	193/16	203/8	219/16	223/4	2315/16	251/8	265/16	271/2	2811/16	297/8	311/16	321/4	337/16	345/8	3513/1