

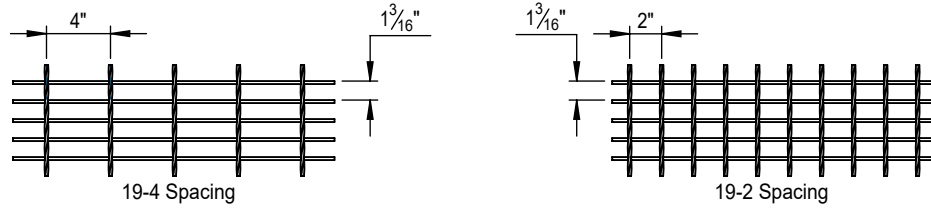


BAR GRATING - HD 19

19-4/19-2

19/16"

IMPERIAL - TYPE 19-4/19-2 SPACING



VANCOUVER

19082-28th Avenue
Surrey, BC
Canada V3S 6M3
TF: 877.687.3488

CALGARY

7571-57th Street SE
Calgary, AB
Canada T2C 5M2
TF: 877.857.0323

EDMONTON

#54-1015 Eby Road SW
Edmonton, AB
Canada T6X 2N9
TF: 877.857.0323

TORONTO

#5-5655 Kennedy Rd
Mississauga, ON
Canada L4Z 3E1
TF: 877.564.3381

MONTREAL

440 Rue Stinson
Saint Laurent, QC
Canada H4N 2E9
TF: 855.325.3826

TABLE OF SAFE LOADS

U - Safe Uniform Load, in lbs. per sq. ft.
C - Safe Concentrated Load, in lbs. per sq. ft. of grating width.
For serrated surface, increase depth by 1/4" for proper load rate.

GENERAL

Loads and Deflection are theoretical and based on static loading.

SIZE OF BEARING BAR		APPROXIMATE WT/LBS/SF		SPAN IN FEET & INCHES																SEC. MOD. PER FOOT OF WIDTH
				1'0"	1'6"	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"		
1" X 1/4"	9.4	10.5	U	5613	2495	1403	898	624	458	351	277	225	186	156	133	115	100	88	0.432	
			C	2807	1871	1403	1123	936	802	702	624	561	510	468	432	401	374	351		
1" X 5/16"	12.4	13.5	U	7020	3120	1755	1123	780	573	439	347	281	233	195	166	144	125	110	0.538	
			C	3510	2340	1755	1404	1170	1003	878	780	702	638	585	540	502	468	439		
1" X 3/8"	13.8	14.9	U	8427	3745	2107	1348	936	688	527	416	337	279	234	199	172	150	132	0.646	
			C	4213	2809	2107	1685	1404	1204	1053	936	843	766	702	648	602	562	527		
1 1/4" X 1/4"	11.6	12.7	U	8773	3899	2193	1404	975	716	548	433	351	290	244	208	179	156	137	0.675	
			C	4387	2924	2193	1755	1462	1253	1097	975	877	798	731	675	627	585	548		
1 1/4" X 5/16"	15.3	16.4	U	10967	4874	2742	1755	1219	895	686	542	439	363	305	260	224	195	172	0.842	
			C	5484	3656	2742	2194	1828	1567	1371	1219	1097	997	914	844	784	731	686		
1 1/4" X 3/8"	17.1	18.2	U	13160	5849	3290	2106	1462	1074	823	650	526	435	366	311	269	234	206	1.009	
			C	6580	4387	3290	2632	2193	1880	1645	1462	1316	1196	1097	1012	940	877	823		
1 1/2" X 1/4"	13.8	14.9	U	12627	5612	3157	2020	1403	1031	789	624	505	417	351	299	258	224	197	0.972	
			C	6313	4209	3157	2525	2104	1804	1578	1403	1263	1148	1052	971	902	842	789		
1 1/2" X 5/16"	18.1	19.2	U	15787	7017	3947	2526	1754	1289	987	780	632	522	439	374	323	281	247	1.212	
			C	7893	5263	3947	3157	2631	2256	1973	1754	1579	1435	1316	1214	1128	1053	987		
1 1/2" X 3/8"	20.4	21.5	U	18947	8421	4737	3031	2105	1547	1184	936	758	626	526	448	387	337	296	1.453	
			C	9473	6316	4737	3789	3158	2707	2368	2105	1895	1722	1579	1457	1353	1263	1184		
1 3/4" X 1/4"	16.0	17.1	U	17187	7639	4297	2750	1910	1403	1074	849	680	568	477	407	351	306	269	1.323	
			C	8593	5729	4297	3437	2864	2455	2148	1910	1719	1562	1432	1322	1228	1146	1074		
1 3/4" X 5/16"	21.0	22.1	U	21487	9550	5372	3438	2388	1754	1343	1061	859	710	597	509	439	382	336	1.651	
			C	10743	7163	5372	4297	3581	3070	2686	2388	2149	1953	1791	1653	1535	1433	1343		
1 3/4" X 3/8"	23.7	24.8	U	25787	11461	6447	4126	2865	2105	1612	1273	1031	852	716	610	526	458	403	1.978	
			C	12893	8596	6447	5157	4298	3684	3223	2865	2579	2344	2149	1984	1842	1719	1612		
2" X 1/4"	18.3	19.4	U	22453	9979	5613	3593	2495	1833	1403	1109	898	742	624	531	458	399	351	1.728	
			C	11227	7484	5613	4491	3742	3208	2807	2495	2245	2041	1871	1727	1604	1497	1403		
2" X 5/16"	23.8	24.9	U	28067	12474	7017	4491	3119	2291	1754	1386	1123	928	780	664	573	499	439	2.156	
			C	14031	9356	7017	5614	4678	4010	3509	3116	2807	2552	2339	2197	2005	1871	1754		
2" X 3/8"	27.0	28.1	U	33680	14969	8420	5389	3742	2749	2105	1663	1347	1113	936	797	687	599	526	2.583	
			C	16840	11227	8420	6736	5613	4811	4210	3742	3368	3062	2807	2591	2406	2245	2105		
2 1/4" X 1/4"	20.5	21.6	U	28427	12634	7107	4548	3159	2321	1777	1404	1137	940	790	673	580	505	444	2.700	
			C	14213	9476	7107	5685	4738	4061	3553	3159	2843	2584	2369	2187	2030	1895	1777		
2 1/4" X 5/16"	25.3	26.5	U	35527	15790	8882	5684	3948	2901	2221	1755	1421	1175	987	841	725	632	555	3.369	
			C	17763	11843	8882	7105	5936	5076	4441	3948	3553	3230	2961	2733	2538	2369	2221		
2 1/4" X 3/8"	30.1	31.3	U	42627	18945	10657	6820	4736	3480	2664	2150	1705	1409	1184	1099	870	758	666	4.036	
			C	21313	14209	10657	8525	7104	6090	5328	4736	4263	3875	3552	3279	3045	2842	2664		
2 1/2" X 1/4"	22.7	23.8	U	35093	15597	8773	5615	3899	2865	2193	1733	1404	1160	975	831	716	624	548	2.700	
			C	17547	11698	8773	7019	5849	5013	4387	3899	3509	3190	2942	2699	2507	2340	2193		
2 1/2" X 5/16"	29.5	30.6	U	53860	19494	10965	7018	4873	3581	2741	2166	1755	1450	1219	1039	895	780	685	3.369	
			C	21930	14620	10965	8772	7310	6266	5483	4873	4386	3987	3655	3374	3133	2924	2741		
2 1/2" X 3/8"	33.6	34.7	U	52627	23390	13157	8420	5847	4296	3289	2599	2105	1740	1462	1246	1074	936	822	4.036	
			C	26314	17542	13157	10525	8771	7518	6578	5847	5263	4784	4386	4048	3759	3508	3289		
3" X 1/4"	27.1	28.2	U	50520	22453	12630	8083	5613	4124	3158	2495	2021	1670	1403	1196	1031	898	789	3.889	
			C	25260	16840	12630	10104	8420	7217	6316	5613	5052	4593	4210	3886	3609	3368	3158		
3" X 5/16"	35.2	36.3	U	50520	22453	12630	8083	5613	4124	3158	2495	2021	1670	1403	1196	1031	898	789	4.852	
			C	25260	16840	12630	10104	8420	7217	6316	5613	5052	4593	4210	3886	3609	3368	3158		
3" X 3/8"	40.1	41.2	U	63154	28068	15789	10105	7017	5156	3948	3119	2526	2088	1754	1495	1289	1123	987	5.813	
			C	31577	21051	15789	12631	10526	9022	7894	7017	6316	5742	5263	4858	4511	4210	3948		
3 1/2" X 1/4"	31.5	32.6	U	75787	33683	18947	12126	8421	6187	4737	3743	3031	2505	2105	1794	1547	1347	1184	5.293	
			C	34387	22924	17193	13755	11462	9825	8597	7641	6877	6252	5731	5290	4912	4585	4298		
3 1/2" X 5/16"	40.8	41.9	U	85967	38208	21492	13755	9552	7018	5373	4245	3439	2842	2388	2035	1755	1529	1344	6.604	
			C	42984	28656	21492	17194	14328	12281	10746	9552	8597	7815	7164	6613	6141	5731	5371		
3 1/2" X 3/8"	46.7	47.8	U	103160	45849	25790	16506	11462	8421	6448	5094	4126	3410	2842	2442	2105	1834	1612	7.911	
			C	51580	34387	25790	20632	17193	14737	12895	11462	10316	9378	8597	7935	7369	6877	6448		
4" X 1/4"	38.6	39.7	U	89827	39923	22457	14372	9981	7333	5614	4436	3593	2969	2495	2126	1833	1594	1404	7.000	
			C	44913	29942	22457	17965	14971	12832	11228	9981	8983	8166	7486	6910	6416	5988	5614		
4" X 5/16"	46.5	47.6	U	112280	49902	28070	17965	12476	9166	7018	5545	4491	3712	3116	2658	2292	1996	1		