# **BAR GRATING - STEEL**

30-102/30-51

30mm



## ACCURATE SCREEN & GRATING

#### **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

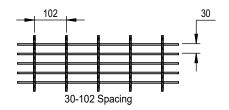
#### **TORONTO**

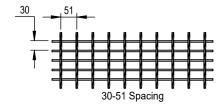
#5-5655 Kennedy Rd Mississauga, ON Canada L4Z 3E1 TF: 877.564.3381

## **MONTREAL**

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

## **METRIC - TYPE 30-102/30-51 SPACING**





#### TABLE OF SAFE LOADS

- **U** Safe Uniform Load., in kPa
- C Safe Concentrated Load, in kN/m
- **D** Deflection in millimeters

For serrated surface, increase depth by 7mm for proper load rate.

#### GENERAL

Loads and Deflection are theoretical and based on static loading.

NOTE: Spans to the right of heavy line not recommended. Deflections shown based on tabulated loadings. For lesser design loads reduce deflection in direct proportion. For serrated surface increase depth by one size.

STANDARD STEEL TYPE 30-102  SEC.																			
SIZE OF				SPAN IN MILLIMETERS															SEC. MOD. PER 305mm
BEARING BAR	TYPE 30-102	TYPE 30-51		305	458	610	762	915	1067	1219	1372	1524	1676	1829	1981	2133	2438	2743	OF WIDTH
19 X 3.2	19.19		U	68	30	17	11	8	6	4	3								2.00
			D	0.584	1.397	2.515	3.937	5.664	7.722	10.084	12.776								
			С	10	7	5	4	3	3	3	2								
			D	0.483	1.118	2.007	3.150	4.547	6.172	8.077	10.211								
19 X 4.8	27.24		U	102	46	26	16	11	8	6	5								3.00
			D	0.584 16	1.397	2.515	3.937 6	5.664 5	7.722 4	10.084	12.776								
			C D	0.483	1.118	2.007	3.150	4.547	6.172	8.077	10.211								
			U	121	54	30	19	13	10	8.011	6	5	4						
25 X 3.2 25 X 4.8	24.56 35.30	26.85 38.42	D	0.508	1.067	1.880	2.946	4.267	5.791	7.569	9.576	11.836	14.300						3.54 5.33
			C	18	12	9	7	6	5.752	5	4	4	3						
			D	0.457	0.889	1.524	2.362	3.404	4.623	6.045	7.671	9.449	11.455						
			U	182	81	45	29	20	15	11	9	7	6						
			D	0.508	1.067	1.880	2.946	4.267	5.791	7.569	9.576	11.836	14.300						
			С	28	18	14	11	9	8	7	6	6	5						
			D	0.457	0.889	1.524	2.362	3.404	4.623	6.045	7.671	9.449	11.455						
32 X 3.2	29.88	33.01	U	190	84	47	30	21	15	12	9	8	6	5	4	4			5.56
				0.457	0.889	1.524	2.362	3.404	4.623	6.045	7.671	9.449	11.455	13.614	15.977	18.542			
			С	29	19	14	12	10	8	7	6	6	5	5	4	4			
				0.432		1.219	1.880	2.718	3.708	4.851	6.121	7.569	9.144	10.897	12.802	14.834			
32 X 4.8	43.31	46.43	U	284	126	71	45	32	23	18	14	11	9	8	7	6			8.31
			D	0.457	0.889	1.524	2.362	3.404	4.623	6.045	7.671	9.449	11.455	13.614	15.977	18.542			
			С	43	29	22	17	14	12	- 11	10	9	8	7	7	6			
			D	0.432	0.737	1.219	1.880	2.718	3.708	4.851	6.121	7.569	9.144	10.897	12.802	14.834			
38 X 3.2	35.30	38.42	U	273	121	68	44	30	22	17	13	11	9	8	6	6	4	3	8.00
			D	0.305	0.711	1.270	1.981	2.845	3.861	5.055	6.375	7.874	9.550	11.354	13.310	15.443	20.168	25.552	
			C D	41 0.279	28 0.584	1.016	17 1.575	2.261	12 3.099	10 4.039	9 5.105	6.299	7.620	7 9.093	10.668	6 12.370	5 16.154	5 20.422	
			U	409	182	1.016	65	45	3.099	4.039	20	16	1.620	9.093	10.668	12.370	16.154	20.422	
38 X 4.8	51.31		D	0.305	0.711	1.270	1.981	2.845	3.861	5.055	6.375	7.874	9,550	11.354	13.310	15.443	20.168	25.552	11.97
		54.44	C	62	41	31	25	21	18	16	14	12	11	10	10	9	20.108	7	
			D	0.279	0.584	1.016	1.575	2.261	3.099	4.039	5.105	6.299	7.620	9.093	10.668	12.370	16.154	20.422	
			U	557	248	139	89	62	45	35	28	22	18	15	13	11	9	7	
45 X 4.8	59.42		D	0.254	0.610	1.092	1.702	2.438	3.302	4.318	5.461	6.756	8.179	9.728	11.430	13.233	17.297	21.895	
		62.54	С	85	56	42	34	28	24	21	19	17	15	14	13	12	11	9	16.30
			D	0.279	0.508	0.864	1.346	1.956	2.642	3.454	4.369	5.410	6.528	7.772	9.144	10.592	13.843	17.501	
51 X 4.8			U	727	323	182	116	81	59	45	36	29	24	20	17	15	11	9	21.30
	67.43	70.55	D	0.254	0.533	0.94	1.473	2.134	2.896	3.785	4.801	5.918	7.163	8.509	9.982	11.582	15.138	19.152	
			С	111	74	55	44	37	32	28	25	22	20	18	17	16	14	12	
			D	0.127	0.406	0.762	1.194	1.702	2.311	3.023	3.835	4.724	5.715	6.807	8.001	9.271	12.116	15.316	
57 X 4.8	75.43	78.56	U	921	409	230	147	102	75	58	45	37	30	26	22	19	14	11	26.96
			D	0.102	0.432	0.838	1.321	1.880	2.565	3.353	4.267	5.258	6.350	7.569	8.890	10.312	13.462	17.018	
			С	140	93	70	56	47	40	35	31	28	25	23	22	20	17	16	
			D	0.203	0.381	0.660	1.041	1.524	2.057	2.692	3.404	4.216	5.050	6.045	7.112	8.230	10.770	13.614	
64 X 4.8	83.54	86.66	U	1137	505	284	182	126	93	71	56	45	38	32	27	23	18	14	33.28
			D	0.127	0.406	0.762	1.194	1.702	2.311	3.023	3.835	4.724	5.715	6.807	8.001	9.271	12.116	15.316	
			С	173	115	886	69	58	49	43	38	35	31	29	27	25	22	19	
			D	0.254	0.381	0.610	0.940	1.372	1.854	2.413	3.073	3.785	4.572	5.461	6.401	7.417	9.677	12.268	

Maximum allowable fiber stress of 124 M.P.A.