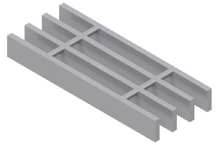
LOAD TABLES - HD CLOSE-MESH

Grating Type: 24W102
Design Code: NAAMM MBG 534-19
Material: ASTM A1011CS Grade 250
Surface: Smooth



U = Safe Uniform Load (kPa)
D_u = Deflection Due to Safe Uniform Load (mm)
C = Safe Concentrated Load (kN/meter of grating width)
D_c = Deflection Due to Safe Concentrated Load (mm)
Allowable Extreme Fiber Stress = 137.9 MPa

Bearing Bar Size (mm)	Approx. Weight (kg/m2)	Ped. Span (mm)	Load / Deflection	SPAN (mm) 305	457	610	762	915	1067	1219	1372	1524	1677	1829	1981	2134	2286	2438	Section Properties S_x (mm^3)/m / I_x (mm^4)/m
25 x 6	58.5	1,649.00	U	340.0	151.2	85.1	54.5	37.8	27.8	21.3	16.8	13.6	11.3						28,670
			D_u	0.5	1.2	2.1	3.3	4.7	6.4	8.4	10.6	13.1	15.9						
			C	51.9	34.6	25.9	20.8	17.3	14.8	13.0	11.5	10.4	9.4						364.16E+3
			D_c	0.4	0.9	1.7	2.6	3.8	5.2	6.7	8.5	10.5	12.7						
32 x 6	71.9	1,952.00	U	533.0	237.0	133.3	85.3	59.3	43.6	33.3	26.3	21.3	17.6	14.8	12.6				44,940
			D_u	0.4	0.9	1.7	2.6	3.8	5.1	6.7	8.5	10.5	12.7	15.1	17.7				
			C	81.3	54.2	40.7	32.5	27.1	23.2	20.3	18.1	16.3	14.8	13.6	12.5				714.61E+3
			D_c	0.3	0.8	1.3	2.1	3.0	4.1	5.4	6.8	8.4	10.2	12.1	14.2				
38 x 6	85.1	2,235.00	U	765.1	340.2	191.4	122.5	85.1	62.5	47.9	37.8	30.6	25.3	21.3	18.1	15.6	13.6		64,520
			D_u	0.4	0.8	1.4	2.2	3.2	4.3	5.6	7.1	8.8	10.6	12.6	14.8	17.2	19.7		
			C	116.7	77.8	58.4	46.7	38.9	33.4	29.2	25.9	23.3	21.2	19.5	18.0	16.7	15.6		1.23E+6
			D_c	0.3	0.6	1.1	1.8	2.5	3.4	4.5	5.7	7.0	8.5	10.1	11.8	13.7	15.8		
38 x 10	124.4	2,468.00	U	1,135.7	505.0	284.1	181.9	126.3	92.8	71.1	56.1	45.5	37.6	31.6	26.9	23.2	20.2	17.8	95,770
			D_u	0.4	0.8	1.4	2.2	3.2	4.3	5.6	7.1	8.8	10.6	12.6	14.8	17.2	19.7	22.4	
			C	173.2	115.5	86.6	69.3	57.8	49.5	43.3	38.5	34.7	31.5	28.9	26.7	24.8	23.1	21.7	1.82E+6
			D_c	0.3	0.6	1.1	1.8	2.5	3.4	4.5	5.7	7.0	8.5	10.1	11.8	13.7	15.8	17.9	
51 x 6	111.7	2,774.00	U	1,360.2	604.8	340.3	217.8	151.3	111.1	85.1	67.2	54.5	45.0	37.8	32.2	27.8	24.2	21.3	114,700
			D_u	0.3	0.6	1.1	1.6	2.4	3.2	4.2	5.3	6.6	7.9	9.5	11.1	12.9	14.8	16.8	
			C	207.4	138.3	103.7	83.0	69.2	59.3	51.9	46.1	41.5	37.7	34.6	31.9	29.6	27.7	25.9	2.91E+6
			D_c	0.2	0.5	0.8	1.3	1.9	2.6	3.4	4.3	5.3	6.4	7.6	8.9	10.3	11.8	13.4	
64 x 6	138.3	3,279.00	U	2,125.3	945.0	531.7	340.3	236.4	173.7	133.0	105.1	85.1	70.3	59.1	50.4	43.4	37.8	33.3	179,210
			D_u	0.2	0.5	0.8	1.3	1.9	2.6	3.4	4.3	5.3	6.4	7.6	8.9	10.3	11.8	13.4	
			C	324.1	216.1	162.1	129.7	108.1	92.6	81.1	72.1	64.9	59.0	54.0	49.9	46.3	43.2	40.5	5.69E+6
			D_c	0.2	0.4	0.7	1.1	1.5	2.1	2.7	3.4	4.2	5.1	6.1	7.1	8.2	9.5	10.8	
76 x 6	164.8	3,760.00	U	3,060.4	1,360.8	765.6	490.1	340.3	250.1	191.5	151.3	122.5	101.3	85.1	72.5	62.5	54.5	47.9	258,060
			D_u	0.2	0.4	0.7	1.1	1.6	2.1	2.8	3.5	4.4	5.3	6.3	7.4	8.6	9.9	11.2	
			C	466.7	311.2	233.4	186.8	155.6	133.4	116.7	103.8	93.4	84.9	77.8	71.8	66.7	62.3	58.4	9.83E+6
			D_c	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.5	4.2	5.0	5.9	6.9	7.9	9.0	
76 x 10	245.0	4,150.00	U	4,542.8	2,019.9	1,136.5	727.4	505.2	371.2	284.2	224.6	181.9	150.3	126.3	107.6	92.8	80.9	71.1	383,060
			D_u	0.2	0.4	0.7	1.1	1.6	2.1	2.8	3.5	4.4	5.3	6.3	7.4	8.6	9.9	11.2	
			C	692.8	462.0	346.5	277.2	231.0	198.0	173.3	154.0	138.6	126.0	115.5	106.6	99.0	92.4	86.7	14.59E+6
			D_c	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.5	4.2	5.0	5.9	6.9	7.9	9.0	

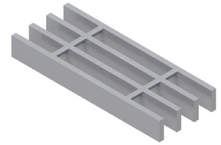
Spans and loads in red exceed a deflection of 6mm for uniform loads of 5kPa. Experience has shown that 6mm deflection is the maximum deflection to give pedestrian comfort, but can be exceeded for other types of loads at the discretion of the specifying professional.

24HW102 (mm)

# of Bars	2	3	4	5	6	7	8	9	10	11
6mm Bars	30	54	78	102	126	150	174	198	222	246
10mm Bars	34	58	82	106	130	154	178	202	226	250
# of Bars	12	13	14	15	16	17	18	19	20	21
6mm Bars	270	294	318	342	366	390	414	438	462	486
10mm Bars	274	298	322	346	370	394	418	442	466	490
# of Bars	22	23	24	25	26	27	28	29	30	31
6mm Bars	510	534	558	582	606	630	654	678	702	726
10mm Bars	514	538	562	586	610	634	658	682	706	730

LOAD TABLES - HD CLOSE-MESH

Grating Type: 24W102
Design Code: NAAMM MBG 534-19
Material: ASTM A1011CS Grade 250
Surface: Smooth



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89 x 6	191.4	4,220.00	U	4,165.6	1,852.2	1,042.1	667.0	463.2	340.4	260.6	205.9	166.8	137.9	115.8	98.7	85.1	74.1	65.2	351,250
			D_u	0.2	0.3	0.6	0.9	1.4	1.8	2.4	3.0	3.8	4.5	5.4	6.3	7.4	8.4	9.6	
			C	635.3	423.6	317.7	254.2	211.8	181.6	158.9	141.2	127.1	115.6	105.9	97.8	90.8	84.7	79.5	15.61E+6
			D_c	0.1	0.3	0.5	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.3	5.1	5.9	6.8	7.7	
89 x 10	284.5	4,658.00	U	6,183.3	2,749.3	1,546.8	990.1	687.6	505.2	386.8	305.7	247.6	204.6	171.9	146.5	126.3	110.1	96.8	521390
			D_u	0.2	0.3	0.6	0.9	1.4	1.8	2.4	3.0	3.8	4.5	5.4	6.3	7.4	8.4	9.6	
			C	943.0	628.8	471.6	377.3	314.5	269.5	235.9	209.7	188.7	171.5	157.2	145.1	134.8	125.8	118.0	23.18E+6
			D_c	0.1	0.3	0.5	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.3	5.1	5.9	6.8	7.7	
102 x 6	218.0	4,665.00	U	5,440.8	2,419.2	1,361.1	871.2	605.1	444.6	340.4	269.0	217.9	180.1	151.3	128.9	111.2	96.8	85.2	458,780
			D_u	0.1	0.3	0.5	0.8	1.2	1.6	2.1	2.7	3.3	4.0	4.7	5.6	6.4	7.4	8.4	
			C	829.7	553.3	415.0	332.0	276.7	237.2	207.5	184.5	166.0	150.9	138.4	127.7	118.6	110.7	103.8	23.31E+6
			D_c	0.1	0.2	0.4	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.8	4.4	5.1	5.9	6.7	
102 x 10	323.9	5,149.00	U	8,076.1	3,591.0	2,020.4	1,293.2	898.1	659.9	505.3	399.2	323.4	267.3	224.6	191.4	165.0	143.7	126.4	681,000
			D_u	0.1	0.3	0.5	0.8	1.2	1.6	2.1	2.7	3.3	4.0	4.7	5.6	6.4	7.4	8.4	
			C	1,231.6	821.3	616.0	492.8	410.7	352.1	308.1	273.8	246.5	224.0	205.4	189.6	176.0	164.3	154.1	34.59E+6
			D_c	0.1	0.2	0.4	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.8	4.4	5.1	5.9	6.7	
127 x 10	402.9	6,087.00	U	12,618.9	5,610.9	3,156.8	2,020.6	1,403.3	1,031.1	789.5	623.8	505.3	417.6	350.9	299.0	257.8	224.6	197.5	1,064,070
			D_u	0.1	0.2	0.4	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.8	4.4	5.1	5.9	6.7	
			C	1,924.4	1,283.2	962.5	770.1	641.7	550.1	481.3	427.9	385.1	350.1	320.9	296.2	275.1	256.7	240.7	67.57E+6
			D_c	0.1	0.2	0.3	0.5	0.8	1.0	1.3	1.7	2.1	2.5	3.0	3.6	4.1	4.7	5.4	
152 x 10	481.8	6,979.00	U	18,171.3	8,079.7	4,545.8	2,909.7	2,020.8	1,484.8	1,136.8	898.3	727.6	601.3	505.3	430.6	371.3	323.4	284.4	1,532,260
			D_u	0.1	0.2	0.4	0.5	0.8	1.1	1.4	1.8	2.2	2.6	3.2	3.7	4.3	4.9	5.6	
			C	2,771.1	1,847.8	1,386.0	1,108.9	924.1	792.1	693.1	616.1	554.5	504.1	462.1	426.6	396.1	369.7	346.7	116.76E+6
			D_c	0.1	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.1	2.5	3.0	3.4	3.9	4.5	

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# of Bars	12	13	14	15	16	17	18	19	20	21
6mm Bars	270	294	318	342	366	390	414	438	462	486
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# of Bars	22	23	24	25	26	27	28	29	30	31
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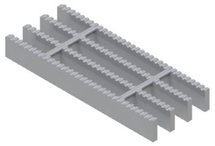
Grating Type: 24W102
Design Code: NAAMM MBG 534-19
Material: ASTM A1011CS Grade 250
Surface: Serrated



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Bearing Bar Size (mm)	Approx. Wieght (kg/m²)	Ped. Span (mm)	Load / Deflection	SPAN (mm) 305	457	610	762	915	1067	1219	1372	1524	1677	1829	1981	2134	2286	2438	Section Properties S_x (mm³)/m	I_x (mm⁴)/m
25 x 6	58.5	1,348.00	U	198.4	88.2	49.6	31.8	22.1	16.2	12.4	9.8								16,730	
			D_u	0.7	1.5	2.8	4.3	6.2	8.4	11.0	13.9									
			C	30.3	20.2	15.1	12.1	10.1	8.6	7.6	6.7								162.25E+3	
			D_c	0.6	1.2	2.2	3.4	5.0	6.7	8.8	11.1									
32 x 6	71.9	1,669.00	U	350.8	156.0	87.8	56.2	39.0	28.7	21.9	17.3	14.0	11.6						29,580	
			D_u	0.5	1.2	2.1	3.2	4.7	6.3	8.3	10.5	12.9	15.7							
			C	53.5	35.7	26.8	21.4	17.8	15.3	13.4	11.9	10.7	9.7						381.63E+3	
			D_c	0.4	0.9	1.7	2.6	3.7	5.1	6.6	8.4	10.3	12.5							
38 x 6	85.1	1,966.00	U	543.1	241.5	135.9	87.0	60.4	44.4	34.0	26.8	21.7	18.0	15.1	12.9				45,800	
			D_u	0.4	0.9	1.7	2.6	3.7	5.1	6.7	8.4	10.4	12.6	15.0	17.6					
			C	82.8	55.2	41.4	33.1	27.6	23.7	20.7	18.4	16.6	15.1	13.8	12.7				735.03E+3	
			D_c	0.3	0.7	1.3	2.1	3.0	4.1	5.3	6.7	8.3	10.1	12.0	14.1					
38 x 10	124.4	2,170.00	U	806.2	358.5	201.7	129.1	89.7	65.9	50.4	39.9	32.3	26.7	22.4	19.1	16.5	14.3		67,980	
			D_u	0.4	0.9	1.7	2.6	3.7	5.1	6.7	8.4	10.4	12.6	15.0	17.6	20.4	23.4			
			C	122.9	82.0	61.5	49.2	41.0	35.1	30.8	27.3	24.6	22.4	20.5	18.9	17.6	16.4		1.09E+6	
			D_c	0.3	0.7	1.3	2.1	3.0	4.1	5.3	6.7	8.3	10.1	12.0	14.1	16.3	18.7			
51 x 6	111.7	2,524.00	U	1,057.9	470.4	264.6	169.4	117.6	86.4	66.2	52.3	42.4	35.0	29.4	25.1	21.6	18.8	16.6	89,200	
			D_u	0.3	0.7	1.2	1.9	2.7	3.7	4.8	6.0	7.4	9.0	10.7	12.6	14.6	16.8	19.1		
			C	161.3	107.6	80.7	64.6	53.8	46.1	40.4	35.9	32.3	29.3	26.9	24.8	23.1	21.5	20.2	2.00E+6	
			D_c	0.2	0.5	1.0	1.5	2.1	2.9	3.8	4.8	6.0	7.2	8.6	10.1	11.7	13.4	15.2		
64 x 6	138.3	3,044.00	U	1,742.6	774.8	435.9	279.0	193.8	142.4	109.0	86.1	69.8	57.7	48.5	41.3	35.6	31.0	27.3	146,940	
			D_u	0.2	0.5	0.9	1.5	2.1	2.8	3.7	4.7	5.8	7.0	8.4	9.8	11.4	13.1	14.8		
			C	265.8	177.2	132.9	106.3	88.6	76.0	66.5	59.1	53.2	48.3	44.3	40.9	38.0	35.5	33.2	4.22E+6	
			D_c	0.2	0.4	0.7	1.2	1.7	2.3	3.0	3.8	4.6	5.6	6.7	7.8	9.1	10.4	11.9		
76 x 6	164.8	3,535.00	U	2,597.4	1,154.9	649.8	415.9	288.9	212.2	162.5	128.4	104.0	86.0	72.2	61.5	53.1	46.2	40.7	219,020	
			D_u	0.2	0.4	0.8	1.2	1.7	2.3	3.0	3.9	4.8	5.8	6.8	8.0	9.3	10.7	12.2		
			C	396.1	264.1	198.1	158.5	132.1	113.2	99.1	88.1	79.3	72.1	66.1	61.0	56.6	52.8	49.6	7.69E+6	
			D_c	0.2	0.3	0.6	1.0	1.4	1.9	2.4	3.1	3.8	4.6	5.5	6.4	7.5	8.6	9.7		
76 x 10	242.8	3,902.00	U	3,855.6	1,714.3	964.5	617.4	428.8	315.0	241.2	190.6	154.4	127.6	107.2	91.4	78.8	68.6	60.3	325,110	
			D_u	0.2	0.4	0.8	1.2	1.7	2.3	3.0	3.9	4.8	5.8	6.8	8.0	9.3	10.7	12.2		
			C	588.0	392.1	294.1	235.3	196.1	168.1	147.1	130.7	117.7	107.0	98.0	90.5	84.0	78.4	73.6	11.41E+6	
			D_c	0.2	0.3	0.6	1.0	1.4	1.9	2.4	3.1	3.8	4.6	5.5	6.4	7.5	8.6	9.7		

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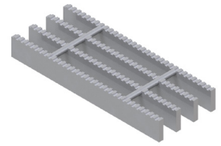
Material: ASTM A1011CS Grade 250
Surface: Serrated



U = Safe Uniform Load (kPa)
D_u = Deflection Due to Safe Uniform Load (mm)
C = Safe Concentrated Load (kN/meter of grating width)
D_c = Deflection Due to Safe Concentrated Load (mm)
Allowable Extreme Fiber Stress = 137.9 MPa

Bearing Bar Size (mm)	Approx. Wieght (kg/m²)	Ped. Span (mm)	Load / Deflection	SPAN (mm) 305	457	610	762	915	1067	1219	1372	1524	1677	1829	1981	2134	2286	2438	Section Properties S_x (mm³)/m	I_x (mm⁴)/m
89 x 6	191.4	4,005.00	U	3,622.3	1,610.6	906.2	580.0	402.8	296.0	226.6	179.1	145.0	119.9	100.7	85.8	74.0	64.5	56.7	305,440	
			D_u	0.2	0.4	0.6	1.0	1.4	2.0	2.6	3.3	4.0	4.9	5.8	6.8	7.9	9.1	10.3		
			C	552.4	368.3	276.3	221.0	184.2	157.9	138.2	122.8	110.5	100.5	92.1	85.0	79.0	73.7	69.1	12.66E+6	
			D_c	0.1	0.3	0.5	0.8	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.4	6.3	7.2	8.2		
89 x 10	284.5	4,421.00	U	5,376.8	2,390.7	1,345.1	861.0	597.9	439.3	336.4	265.8	215.3	177.9	149.5	127.4	109.9	95.7	84.2	453390	
			D_u	0.2	0.4	0.6	1.0	1.4	2.0	2.6	3.3	4.0	4.9	5.8	6.8	7.9	9.1	10.3		
			C	820.0	546.8	410.1	328.1	273.4	234.4	205.1	182.3	164.1	149.2	136.7	126.2	117.2	109.4	102.6	18.79E+6	
			D_c	0.1	0.3	0.5	0.8	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.4	6.3	7.2	8.2		
102 x 6	218.0	4,457.00	U	4,817.1	2,141.9	1,205.1	771.3	535.7	393.6	301.4	238.1	192.9	159.4	134.0	114.1	98.4	85.7	75.4	406,190	
			D_u	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.5	4.2	5.0	5.9	6.8	7.9	8.9		
			C	734.6	489.8	367.4	294.0	245.0	210.0	183.7	163.3	147.0	133.6	122.5	113.1	105.0	98.0	91.9	19.42E+6	
			D_c	0.1	0.3	0.4	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.7	5.5	6.3	7.1		
102 x 10	323.9	4,919.00	U	7,150.4	3,179.4	1,788.8	1,145.0	795.2	584.3	447.3	353.5	286.3	236.6	198.8	169.4	146.1	127.3	111.9	602,940	
			D_u	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.5	4.2	5.0	5.9	6.8	7.9	8.9		
			C	1,090.4	727.1	545.4	436.3	363.6	311.7	272.7	242.4	218.2	198.4	181.8	167.9	155.9	145.5	136.4	28.82E+6	
			D_c	0.1	0.3	0.4	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.7	5.5	6.3	7.1		
127 x 10	402.9	5,870.00	U	11,454.8	5,093.2	2,865.6	1,834.2	1,273.9	936.0	716.6	566.2	458.7	379.1	318.5	271.4	234.0	203.9	179.3	965,900	
			D_u	0.1	0.2	0.4	0.7	1.0	1.4	1.8	2.2	2.8	3.3	4.0	4.7	5.4	6.2	7.1		
			C	1,746.9	1,164.8	873.7	699.0	582.5	499.3	436.9	388.4	349.6	317.8	291.3	268.9	249.7	233.0	218.5	58.44E+6	
			D_c	0.1	0.2	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.3	5.0	5.6		
152 x 10	481.8	6,772.00	U	16,768.6	7,456.0	4,194.9	2,685.1	1,864.8	1,370.2	1,049.1	828.9	671.4	554.9	466.3	397.3	342.6	298.4	262.4	1,413,980	
			D_u	0.1	0.2	0.4	0.6	0.8	1.1	1.5	1.8	2.3	2.8	3.3	3.9	4.5	5.1	5.8		
			C	2,557.2	1,705.2	1,279.0	1,023.3	852.8	731.0	639.6	568.6	511.7	465.2	426.4	393.6	365.5	341.2	319.9	103.50E+6	
			D_c	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6	3.1	3.6	4.1	4.7		

Spans and loads in red exceed a deflection of 6mm for uniform loads of 5kPa. Experience has shown that 6mm deflection is the maximum deflection to give pedestrian comfort, but can be exceeded for other types of loads at the discretion of the specifying professional.

24HW102 (mm)

# of Bars	2	3	4	5	6	7	8	9	10	11
6mm Bars	30	54	78	102	126	150	174	198	222	246
10mm Bars	34	58	82	106	130	154	178	202	226	250
# of Bars	12	13	14	15	16	17	18	19	20	21
6mm Bars	270	294	318	342	366	390	414	438	462	486
10mm Bars	274	298	322	346	370	394	418	442	466	490
# of Bars	22	23	24	25	26	27	28	29	30	31
6mm Bars	510	534	558	582	606	630	654	678	702	726
10mm Bars	514	538	562	586	610	634	658	682	706	730