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CARBON STEEL - Grating Size Chart													
STYLE	Lbs. Per Sq. Ft.	Standard Sheet Size (Feet)		Design Size (Inches)		Opening Size (Inches)		Strand Size (Inches)		Overall Thickness (Inches)	No. of Designs Per Ft.		(% Open Area)
		SWD	LWD	SWD	LWD	SWO	LWO	Width	Thick-ness		SWD	LWD	
3.0 lb.	3.00	4 & 6	8,10 & 12	1.33	5.33	.940	3.44	.264	.183	.540	9	2.25	60
3.14 lb.	3.14	4-4 & 6	8-10	2.00	6.00	1.625	4.88	.312	.250	.656	6	2	69
4.0 lb.	4.00	4-5 & 6	8 & 10	1.33	5.33	.940	3.44	.300	.215	.618	9	2.25	55
4.27 lb.	4.27	4 & 6	8 & 10	1.41	4.00	1.00	2.88	.300	.250	.625	8.5	3	58
5.0 lb.	5.00	4-5 & 6	8 & 10	1.33	5.33	.813	3.38	.331	.250	.655	9	2.25	50
<b>Aluminum Type 5052-H-32</b>													
2.0 lb.	2.00	5	12	1.33	5.33	.940	3.44	.387	.250	.730	9	2.25	48

Please Note: This information is for descriptive purposes only - NOT FOR DESIGN

Concentrated & Uniform Load Deflection Tables/Fixed Span																	
Carbon Steel ----- Style - Lbs. Per Sq. Ft.															Aluminum		
		3		3.14		4		4.27		5		6.25		7		2	
		Load	D	Load	D	Load	D	Load	D	Load	D	Load	D	Load	D	Load	D
24"	U	275	.250	375	.250	350	.240	500	.245	600	.240	800	.220	800	.210		
SPAN	C	275	.250	375	.250	440	.250	400	.250	540	.245	800	.220	800	.220	250	.250
36"	U	100	.220	150	.240	150	.245	165	.245	175	.240	300	.250	400	.250		
SPAN	C	165	.250	155	.250	220	.250	225	.240	310	.250	300	.240	350	.240	100	.250
48"	U			50	.250	50	.250	60	.250	100	.250	115	.240	165	.240		
SPAN	C	75	.250	75	.250	100	.250	100	.250	140	.250	150	.240	175	.250	50	.250

U - Uniform Load in Lbs. Per Sq. Ft. C - Concentrated Load in Lbs. Per Sq. Ft. D - Deflection in inches

Selection Chart (Carbon Steel)*							
CONCENTRATED LOAD (Lbs. Per Foot of Length of Catwalk or Platform)		CLEAR SPAN (Distance between supports, measured from the inside edge of one support to the inside edge of the next support.)					
		23"	30"	35"	42"	47"	54"
50 Lbs. Light or occasional pedestrian traffic	3.0	3.0	3.0	3.0	3.0	4.0	5.0
	3.14	3.14	3.14	3.14	3.14	4.27	6.25
100 Lbs. Normal or frequent pedestrian traffic	3.0	3.0	3.0	4.0	5.0	7.0	7.0
	3.14	3.14	3.14	4.27	6.25		
150 Lbs. Heavy or constant pedestrian traffic	3.0	4.0	4.0	5.0	6.25	7.0	

	3.14	4.27	4.27	6.25			
<b>200 Lbs.</b> Pedestrian traffic with light equipment	3.0 3.14	4.0 4.27	4.27 5.0	6.25	7.0	7.0	
<b>250 Lbs.</b>	4.0 4.27	5.0	5.0 6.25	7.0	The concentrated load deflections for this chart do not exceed the 1/4" maximum deflection as stated by Federal Specification RR-G-661B and the generally accepted recommendation for normal pedestrian comfort.		
<b>300 Lbs.</b>	4.0 4.27	5.0 6.25	6.25				
<b>350 Lbs.</b>	4.0 4.27	6.25	7.0				

**Machine Guards - OSHA Expanded Metal Size Chart \***

Clearance From Moving Parts At All Points.	Largest Mesh Approved	Minimum Gauge or Thickness	Recommended Expanded Metal Style Number
under 4"	1/2"	#18	1/2"-#18 STD 1/2"-#16 FLAT or STD 1/2"-#13 FLAT or STD
4" - 15"	2"	#13	1/2"-#13 FLAT or STD 3/4"-#9 FLAT or STD 1 1/2"-#9 FLAT or STD

\*Extract from Table O-12 OSHA  
Table of Standard Material and Dimensions.  
Subpart O, Machine Guarding,  
Paragraph 1910.2199, Page 10650.

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