



APRIL 2004

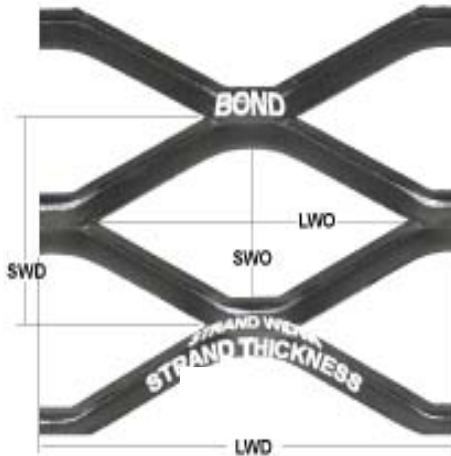
D R A M E X[®]
S P E C I F I C A T I O N S

CARBON & STAINLESS STEEL
& ALUMINUM STRUCTURAL GRATINGS

METRIC VERSION

W W W . D R A M E X . C O M

DRAMEX STRUCTURAL GRATINGS



STOCK SIZE SHEETS

1. Style of Grating
2. Sheet size: specify SWD first then LWD

Example: Dramex Style 4.0# Carbon Steel Catwalk and Structural Grating
1.22m SWD x 2.44m LWD. Dramex Catwalk and Structural Gratings are furnished with closed design.

Tolerance: SWD Plus 15.62mm Minus 0mm per meter of width.
LWD Plus 19.05mm Minus 0mm (2.44m sheet).
Plus 25.4mm Minus 0mm (3.05m & 3.66m sheets).

OTHER THAN STOCK SIZE SHEETS

1. Style of Grating
2. Sheet Size - specify SWD first then LWD.
3. Specify type of shearing SWD and LWD and the tolerances desired.
4. Tolerance: Bond Shear
Plus 12.7mm design size Minus 0mm
Random Shear
Plus or Minus 3.18mm

TERMINOLOGY

Style Dimension: Nominal dimension Short Way of Design (SWD).

Design Size: Actual dimension SWD and LWD. Measured from a point to a corresponding point on the following design.

SWO: Short Way of Opening.

LWO: Long Way of Opening.

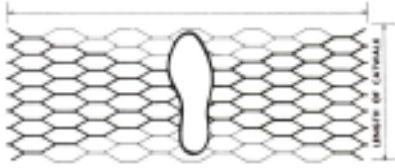
Strands: The sides of the expanded metal design.

Strand Thickness: Gauge thickness of metal expanded.

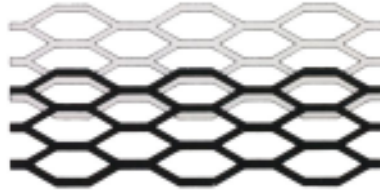
Strand Width: Amount of metal fed under dies to produce one strand.

INSTALLATION

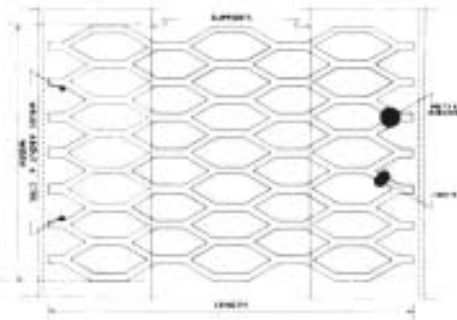
1. For maximum load, position long way of design parallel to the clear span. Diagram illustrates how load stresses are distributed through the strands of Catwalk. Note LWD must be installed parallel to span.



2. Butt or overlap one half of design (no increase in overall thickness).



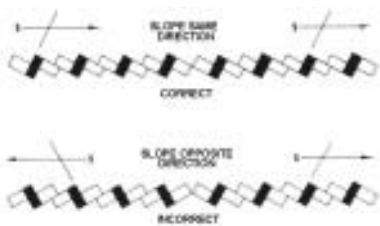
3. Bolt or weld every 15cm or every fourth design to rigid supports.



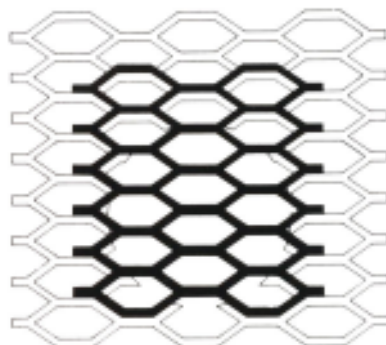
4. Install with straight edge up. Dramex Grating has a top (straight edge) and a bottom (rounded edge).



5. Bonds of adjoining sheets should slope in same direction align with adjoining pieces.



6. Gratings cut-outs for access areas maybe covered with no change in overall thickness of top surface.



DRAMEX STRUCTURAL GRATING

CARBON STEEL

Style	Kg per m ²		Standard Sheet Size (m)		Design Size (mm)		Opening Size (mm)		Strand Size (mm)		Overall Thick.	No. of Designs per meter		Open Area %
	Plain	Galv.	SWD	LWD	SWD	LWD	SWO	LWO	Width	Thick.		SWD	LWD	
2.00	9.76	10.25	2.44 x 0.91 and 1.22 3.05 x 0.91 and 1.22 1.22 x 2.44 and 3.05 1.83 x 2.44 and 3.05 also available in 3.66 LWD		33.782	135.4	25.400	87.376	6.782	3.048	12.192	29.528	7.382	60
3.00	14.65	15.38			33.782	135.4	23.876	87.376	6.706	4.648	13.716	29.528	7.382	60
3.14	15.33	16.11			50.800	152.4	41.275	123.95	7.925	6.350	16.662	19.685	6.562	69
4.00	19.53	20.41			33.782	135.4	23.876	87.376	7.620	5.461	15.697	29.528	7.382	55
4.27	20.85	21.78			35.814	101.6	25.400	73.152	7.620	6.350	15.875	27.887	9.843	58
5.00	24.41	25.39			33.782	135.4	20.650	85.852	8.407	6.350	16.637	29.528	7.382	50
6.25	30.52	31.59			35.814	135.4	20.650	85.852	8.890	7.925	18.161	27.887	7.382	50
7.00	34.18	35.40			35.814	135.4	20.650	85.852	9.931	7.925	18.796	27.887	7.382	45
10.00	48.82				35.814	135.4	13.538	81.280	14.224	7.925	21.717	27.887	7.382	21

STAINLESS STEEL

3.00	14.65		1.22, 2.44	2.44, 1.22	35.814	101.6	25.400	73.152	6.274	4.775	11.684	27.887	9.843	70
3.30	16.21		Special Only		50.800	152.4	41.275	123.95	7.925	6.350	16.662	19.685	6.562	69
4.50	20.75		Special Only		35.814	101.6	25.400	73.152	7.620	6.350	15.875	27.887	9.843	58

ALUMINUM

2.00	9.76		1.22, 2.44	2.44, 1.22, 3.05	33.782	135.4	23.876	87.376	9.322	6.350	18.542	29.528	7.382	48
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Above material meets all requirements of:

ASTM specification F1267-01 (Metal, Expanded, Steel)

MIL-G-18015B (Ships) (Grating, Metal, other than Bar Type)

Deflection requirements of Federal specification RR-G-661-B.

DRAMEX STRUCTURAL GRATING - SELECTION

CATWALK AND STRUCTURAL GRATING (CARBON STEEL)

CONCENTRATED LOAD (Kg Per 30 cm 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)							
	58 cm	76 cm	89 cm	107 cm	119 cm	137 cm	152 cm	183cm
22.68 Kg Light or Occasional Pedestrian Traffic	3.00 3.14	3.00 3.14	3.00 3.14	3.00 3.14	3.00 3.14	4.00 4.27	5.00 6.25	10.00
45.36 Kg Normal or Frequent Pedestrian Traffic	3.00 3.14	3.00 3.14	3.00 3.14	4.00 4.27	5.00 6.25	7.00	7.00	10.00
68.04 Kg Heavy or Constant Pedestrian Traffic	3.00 3.14	4.00 4.27	4.00 4.27	5.00 6.25	6.25	7.00	10.00	
90.72 Kg Pedestrian Traffic with Light Equipment	3.00 3.14	4.00 4.27	4.27 5.00	6.25	7.00	10.00	10.00	
113.40 Kg Pedestrian Traffic with Light Equipment	4.00 4.27	5.00	5.00 6.25	7.00	10.00	10.00		
136.08 Kg Heavy Duty Applications Please Consult Dramex	4.00 4.27	5.00 6.25	6.25	10.00	10.00			
158.76 Kg Heavy Duty Applications Please Consult Dramex	4.00 4.27	6.25	7.00	10.00	10.00			
226.80 Kg Heavy Duty Applications Please Consult Dramex	5.00	7.00	10.00	10.00	10.00			
272.16 Kg Heavy Duty Applications Please Consult Dramex	6.25	10.00	10.00	10.00				
362.88 Kg Heavy Duty Applications Please Consult Dramex	7.00	10.00	10.00					

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DRAMEX STRUCTURAL GRATING - TECHNICAL

CONCENTRATED AND UNIFORM LOAD DEFLECTION TABLES/ FIXED SPAN

	STYLE	SPAN					
			61 cm	91 cm	122 cm	152 cm	183 cm
C A R B O N S T E E L	3.00	U	134	49	-		
		D	0.635	0.559	-		
		C	123	74	33		
		D	0.635	0.635	0.635		
	3.14	U	182	73	24		
		D	0.635	0.610	0.635		
		C	167	69	33		
		D	0.635	0.635	0.635		
	4.00	U	171	73	24		
		D	0.610	0.622	0.635		
		C	196	98	45		
		D	0.635	0.635	0.635		
	4.27	U	244	81	29		
		D	0.622	0.622	0.635		
		C	179	100	45		
		D	0.635	0.610	0.635		
	5.00	U	293	85	49		
		D	0.610	0.61	0.635		
		C	241	138	63		
		D	0.622	0.635	0.635		
6.25	U	391	146	56			
	D	0.559	0.635	0.635			
	C	357	134	67			
	D	0.559	0.610	0.610			
7.00	U	391	195	81			
	D	0.533	0.635	0.610			
	C	357	156	78			
	D	0.559	0.610	0.635			
10.00	U	-	293	98	39	20	
	D	-	0.610	0.635	0.610	0.635	
	C	-	357	223	91	45	
	D	-	0.610	0.635	-	0.533	

A L U M I N I U M	2.00	C	112	45	22
		D	0.635	0.635	0.635

U = Uniform Load in Kg. per 1000 centimeters squared.
C = Concentrated Load in Kg. per 30 centimeters length.
D = Deflection in centimeters.



D R A M E X[®] L O C A T I O N S

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