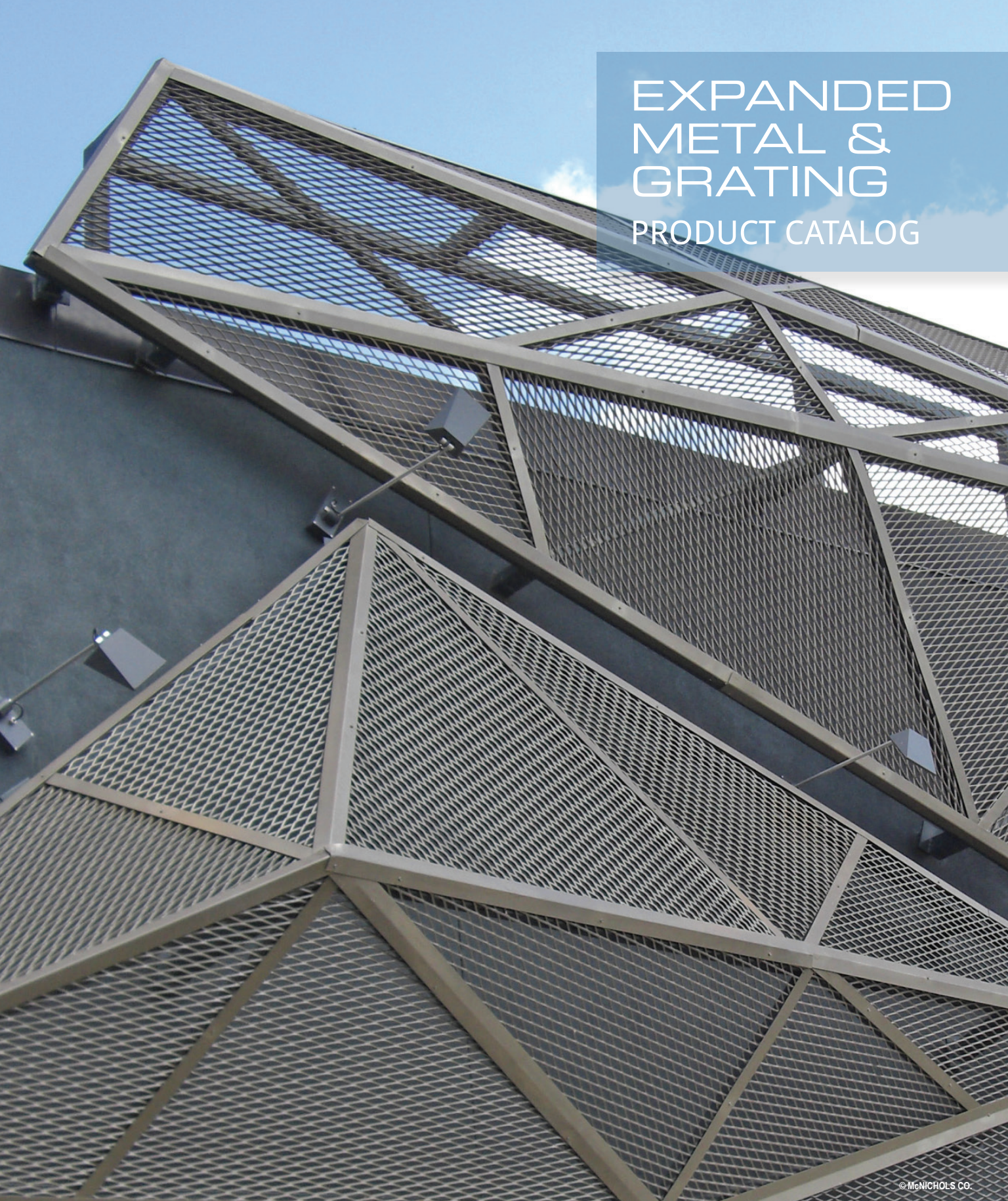
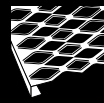
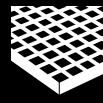
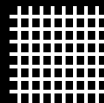
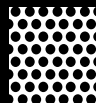


EXPANDED METAL & GRATING PRODUCT CATALOG



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McNICHOLS CO.
Industrial & Architectural Hole Product Solutions since 1952
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EXPANDED

McNICHOLS has the largest selection of Expanded in North America stocked in a variety of styles and materials.

Expanded Metal is a versatile and economical product that can be used for screening, ventilating or for security enclosures. The openings permit passage of light, air and sound, and is lightweight and easy to fabricate and form.

PRODUCT OPTIONS

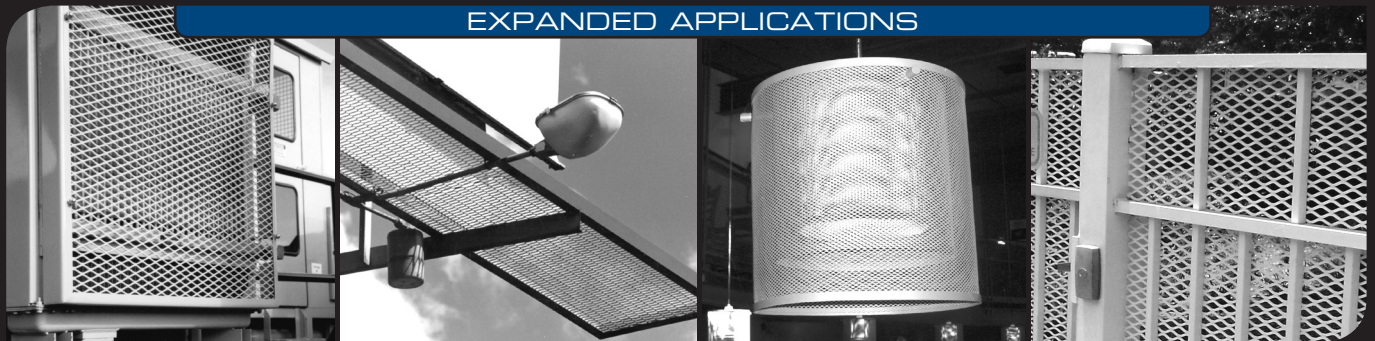
	STANDARD	FLATTENED	GRATING	CATWALK
Construction Styles				
	pg. 2 / webcode: EMS1	pg. 3 / webcode: EMF1	pg. 4 / webcode: GEG1	pg. 4 / webcode: GEG1

PRODUCT SPECIFICATIONS

Materials	Plain Steel, Aluminum, HD Galvanized Steel, Stainless Steel	Plain Steel, Aluminum, HD Galvanized Steel, Stainless Steel	Plain Steel, Aluminum, HD Galvanized Steel, Stainless Steel	Plain Steel, Aluminum, HD Galvanized Steel, Stainless Steel
Gauges	20 to 6 (Aluminum .032 to .125)	20 to 9 (Aluminum .05 to .125)	.54" to .73" (overall thickness)	.46" to .655" (overall thickness)
Style	3/16" to 2"	3/16" to 2"	3# to 6.25#	4.27#
Weight (per square foot)	.16# to 2.5#	.16# to 1.95#	2# to 7# (Plain Steel), 3.3# (Stainless Steel), 2# (Aluminum)	4.27#
Standard Sheet Sizes	4'x8', 4'x10', 5'x8', 6'x8', 6'x10'	3'x8', 4'x8', 4'x10', 4'x12'	4'x8', 4'x10', 6'x10'	10'x3' (others available)
% Open Area	43% to 90%	35% to 83%	45% to 77%	58%
QR Code (Scan using a QR Reader on your smart phone)				

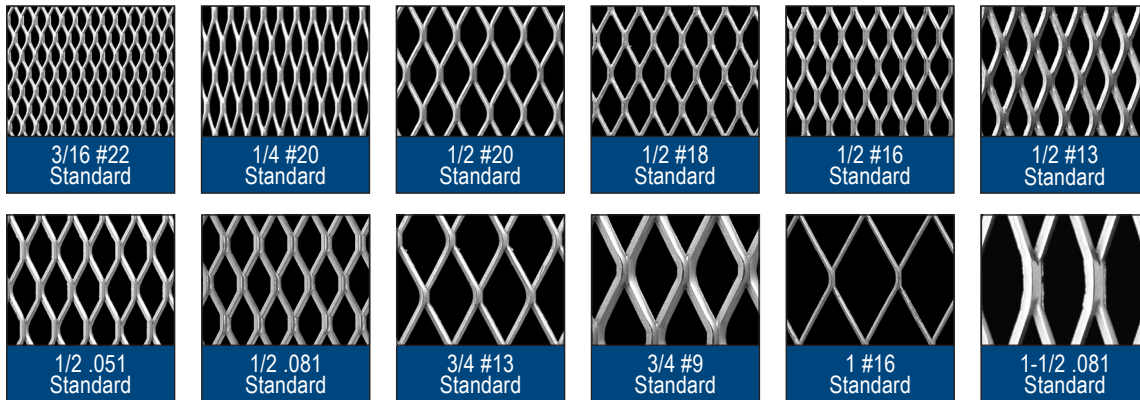
Not all product combinations are available. See mcnichols.com for availability.

EXPANDED APPLICATIONS



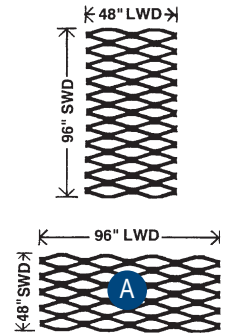
STANDARD EXPANDED WEB CODE: EMS1

Standard Expanded Metal, also known as Raised Expanded, has diamond-shaped openings with a slightly raised surface. This product comes in a wide variety of opening sizes, gauges, materials and sheet sizes.



NOTE: Pictures are not to scale. For actual scale diagrams please see bottom of page 12.

SWD & LWD Dimensions



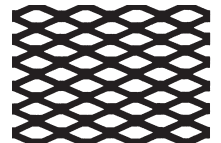
It is important when ordering to give the proper SWD (short way of design) and LWD (long way of design) dimensions. **Stock size sheets are like figure A above.**

STANDARD EXPANDED STOCK LIST

STYLE	#/SQ. FT.	DESIGN SIZE		OPENING SIZE		STRAND SIZE		OVERALL THICKNESS	MESHERS PER FT.		OPEN AREA	SHEET SIZES
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH		SWD	LWD		
PLAIN STEEL												
3/16 #22 S	.45#	.19"	.50"	.14"	.345"	.031"	.034"	.070"	63	24	61%	8'x3'
1/4 #20 S	.86#	.25"	1.0"	.125"	.718"	.036"	.072"	.135"	48	12	45%	4'x8'
1/4 #18 S	1.14#	.25"	1.0"	.110"	.718"	.048"	.072"	.147"	48	12	43%	4'x8'
1/2 #20 S	.43#	.50"	1.2"	.438"	.938"	.036"	.072"	.140"	24	10	80%	4'x8'
1/2 #18 S	.70#	.50"	1.2"	.438"	.938"	.048"	.088"	.172"	24	10	72%	4'x8'
1/2 #16 S	.86#	.50"	1.2"	.375"	.938"	.060"	.087"	.175"	24	10	65%	4'x8'
1/2 #13 S	1.47#	.50"	1.2"	.312"	.938"	.090"	.096"	.204"	24	10	57%	4'x8'
3/4 #16 S	.54#	.923"	2.0"	.813"	1.750"	.060"	.101"	.210"	13	6	78%	4'x8'
3/4 #13 S	.80#	.923"	2.0"	.750"	1.688"	.090"	.096"	.205"	13	6	76%	4'x8'
3/4 #9	1.9#	.923"	2.0"	.688"	1.562"	.015"	.134"	.312"	13	6	68%	4'x10', 6'x10'
1 #16 S	.44#	1.00"	2.4"	.938"	2.062"	.060"	.087"	.192"	12	5	82%	4'x8'
1-1/2 #16 S	.40#	1.33"	3.0"	1.250"	2.625"	.060"	.108"	.230"	9	4	85%	4'x8'
1-1/2 #13 S	.60#	1.33"	3.0"	1.188"	2.500"	.090"	.105"	.242"	9	4	85%	4'x8'
1-1/2 #6 S	2.50#	1.33"	3.0"	1.110"	2.313"	.194"	.203"	.433"	9	4	69%	4'x8', 4'x10'
1-1/2 #9	1.2#	1.33"	3.0"	1.125"	2.375"	.134"	.144"	.312"	9	4	76%	4'x8', 4'x10'
2 #9 S 10 ga.	.90#	1.85"	4.0"	1.563"	3.375"	.134"	.149"	.312"	6.5	3	84%	4'x8'
STAINLESS STEEL (TYPE 304)												
1/2 #18 S	.73#	.50"	1.2"	.437"	.937"	.050"	.087"	.164"	24	10	70%	4'x8'
1/2 #16 S	.91#	.50"	1.2"	.437"	.937"	.062"	.087"	.164"	24	10	70%	4'x8'
1/2 #13 S	1.87#	.50"	1.2"	.325"	.875"	.093"	.119"	.225"	24	10	52%	4'x8'
3/4 #16 S	.60#	.923"	2.0"	.812"	1.750"	.062"	.106"	.202"	13	6	83%	4'x8'
3/4 #13 S	.91#	.923"	2.0"	.750"	1.687"	.093"	.107"	.202"	13	6	80%	4'x8'
3/4 #9 S 10 ga.	2.05#	.923"	2.0"	.687"	1.562"	.140"	.160"	.300"	13	6	67%	4'x8', 5'x8'
1-1/2 #13 S	.68#	1.33"	3.0"	1.250"	2.625"	.093"	.115"	.222"	9	4	83%	4'x8'
1-1/2 #9 S 10 ga.	1.37#	1.33"	3.0"	1.125"	2.500"	.140"	.155"	.280"	9	4	77%	4'x8'
ALUMINUM 3003-H14												
3/16 #.032 S	.16#	.190"	.50"	.160"	.360"	.032"	.034"	.070"	63	24	66%	4'x4'
1/2 #.051 S	.27#	.50"	1.2"	.375"	.937"	.051"	.093"	.158"	24	10	65%	4'x8'
1/2 #.081 S	.44#	.50"	1.2"	.375"	.937"	.081"	.096"	.186"	24	10	60%	4'x8', 4'x10'
3/4 #.081 L S	.32#	.923"	2.0"	.750"	1.68"	.081"	.129"	.220"	13	6	76%	4'x8'
3/4 #.081 H S	.41#	.923"	2.0"	.750"	1.68"	.081"	.165"	.300"	13	6	69%	4'x8'
3/4 #.125 S	.65#	.923"	2.0"	.687"	1.68"	.125"	.169"	.305"	13	6	68%	4'x8'
1-1/2 #.081 S	.22#	1.33"	3.0"	1.187"	2.50"	.081"	.128"	.240"	9	4	85%	4'x8'
HOT DIP GALVANIZED												
3/4 #9 S	1.9#	.923"	2.0"	.688"	1.562"	.150"	.134"	.3120"	--	--	68%	6'x8'
1-1/2 #10 S	.9#	1.33"	3.0"	1.188"	2.50"	.093"	.134"	.2840"	--	--	80%	6'x8'

NOTE: Measurements are approximates and subject to mill tolerances. All chart specifications may vary. Please inquire if they are critical to your application.

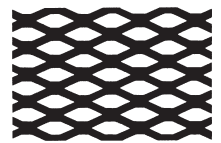
Random Shearing



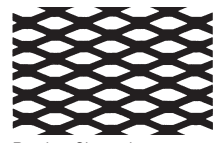
Standard Sheets - Bond or machine run all sides (On flattened material some patterns may result in one random sheared LWD.)



Bond sheared LWD
Random sheared SWD



Bond sheared SWD
Random sheared LWD



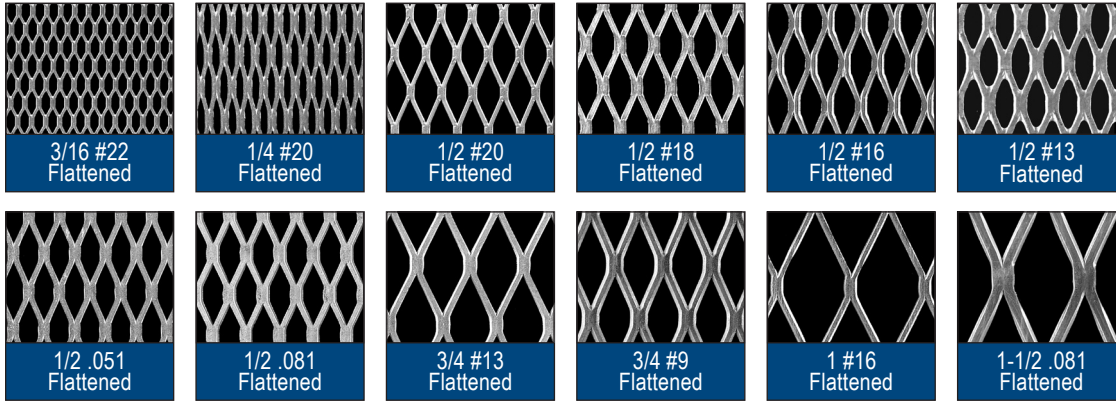
Random Sheared
LWD & SWD

Shearing Terminology

- SWD: short way of design
- LWD: long way of design
- SWO: short way of opening
- LWO: long way of opening

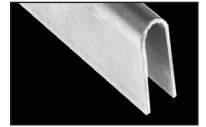
FLATTENED EXPANDED WEB CODE: EMF1

Flattened Expanded Metal is Standard Expanded Metal that has been flattened.



FLATTENED EXPANDED STOCK LIST												
STYLE	#/SQ. FT.	DESIGN SIZE		OPENING SIZE		STRAND SIZE		OVERALL THICKNESS	MESHES PER FT.		OPEN AREA	COMMON SHEET SIZES
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH		SWD	LWD		
PLAIN STEEL												
3/16 #22 F	.43#	.20"	.51"	.115"	.300"	.024"	.040"	.024"	60	23	55%	8'x3'
1/4 #20 F	.82#	.25"	1.05"	.110"	.715"	.030"	.079"	.030"	48	11.6	35%	4'x8'
1/4 #18 F	1.08#	.25"	1.05"	.118"	.715"	.040"	.080"	.040"	48	11.6	35%	4'x8'
1/2 #20 F	.40#	.50"	1.25"	.375"	1.00"	.029"	.079"	.029"	24	9.5	65%	4'x8'
1/2 #18 F	.66#	.50"	1.25"	.312"	1.00"	.039"	.097"	.039"	24	9.5	60%	4'x8' & 10'
1/2 #16 F	.82#	.50"	1.25"	.312"	1.00"	.050"	.096"	.050"	24	9.5	63%	3'x8', 4'x8', 5'x8', 4'x10'
1/2 #13 F	1.40#	.50"	1.25"	.265"	1.00"	.078"	.107"	.078"	24	9.5	52%	3'x8', 4'x8', 5'x8', 4'x10', 5'x10'
3/4 #16 F	.51#	.923"	2.10"	.750"	1.75"	.048"	.111"	.048"	13	5.7	74%	4'x8', 4'x10'
3/4 #14 F	.63#	.923"	2.10"	.688"	1.813"	.061"	.105"	.061"	13	5.7	74%	4'x8', 4'x10'
3/4 #13 F	.75#	.923"	2.10"	.688"	1.781"	.078"	.106"	.078"	13	5.7	74%	4'x8', 4'x10', 5'x10'
3/4 #9 F 10ga.	1.71#	.923"	2.10"	.563"	1.688"	.120"	.165"	.120"	13	5.7	63%	4'x8', 4'x10', 4'x12', 5'x10', 6'x10'
1 #16 F	.41#	1.00"	2.50"	.813"	2.250"	.050"	.098"	.050"	12	4.68	78%	4'x8'
1-1/2 #16 F	.38#	1.33"	3.20"	1.062"	2.750"	.048"	.119"	.048"	9	3.75	83%	4'x8'
1-1/2 #13 F	.57#	1.33"	3.20"	1.062"	2.750"	.078"	.116"	.078"	9	3.75	80%	4'x8'
1-1/2 #9 F 10ga.	1.14#	1.33"	3.20"	1.000"	2.563"	.110"	.158"	.110"	9	3.75	75%	4'x8', 4'x10'
STAINLESS STEEL (TYPE 304 OR 316)												
1/4 #18 F	1.43#	.25"	1.20"	.080"	.66"	.047"	.090"	.047"	48	11.6	28%	4'x8'
1/2 #18 F	.69#	.50"	1.26"	.312"	1.00"	.040"	.098"	.040"	24	9.5	60%	4'x8'
1/2 #16 F	.86#	.50"	1.26"	.312"	1.00"	.050"	.099"	.050"	24	9.5	60%	4'x8'
1/2 #13 F	1.78#	.50"	1.26"	.240"	.915"	.080"	.132"	.080"	24	9.5	45%	4'x8', 4'x10'
3/4 #18 F	.46#	.923"	2.10"	.750"	1.812"	.040"	.118"	.040"	13	5.7	75%	4'x8'
3/4 #16 F	.57#	.923"	2.10"	.750"	1.812"	.050"	.118"	.050"	13	5.7	75%	4'x8'
3/4 #13 F	.86#	.923"	2.10"	.625"	1.75"	.080"	.120"	.080"	13	5.7	75%	4'x8'
3/4 #9 F 10ga.	1.95#	.923"	2.10"	.562"	1.697"	.119"	.165"	.119"	13	5.7	61%	4'x8', 4'x9', 4'x10'
1-1/2 #16 F	.43#	1.33"	3.15"	1.062"	2.75"	.050"	.128"	.050"	9	3.8	80%	4'x8'
1-1/2 #13 F	.65#	1.33"	3.15"	1.000"	2.625"	.080"	.130"	.080"	9	3.8	80%	4'x8'
1-1/2 #9 F 10ga.	1.31#	1.33"	3.15"	.937"	2.625"	.119"	.165"	.119"	9	3.8	75%	4'x8'
ALUMINUM 3003-H14												
1/2 #.051 F	.26#	.50"	1.27"	.312"	1.00"	.040"	.104"	.040"	24	9.5	61%	4'x8'
1/2 #.081 F	.42#	.50"	1.27"	.312"	1.00"	.060"	.105"	.060"	24	9.5	58%	4'x8'
3/4 #.051 F	.16#	.923"	2.125"	.75"	1.812"	.040"	.122"	.040"	13	5.66	72%	4'x8'
3/4 #.081 LF	.30#	.923"	2.125"	.687"	1.75"	.070"	.143"	.070"	13	5.66	70%	4'x8'
3/4 #.081 HF	.39#	.923"	2.125"	.687"	1.75"	.070"	.181"	.070"	13	5.66	63%	4'x8'
3/4 #.125 F	.62#	.923"	2.125"	.625"	1.75"	.095"	.187"	.095"	13	5.66	62%	4'x8', 4'x10'
1-1/2 #.081 F	.21#	1.33"	3.15"	1.062"	2.75"	.060"	.143"	.060"	9	3.8	77%	4'x8'
1-1/2 #.125 F	.41#	1.33"	3.15"	1.00"	2.75"	.080"	.181"	.080"	9	3.8	70%	4'x8'
HOT DIP GALVANIZED												
1/2 #16 F	.98#	.50"	1.25"	.312"	1.0"	.050"	.096"	.05"	24	9.5	63%	4'x8', 4'x10'
1/2 #13 F	1.61#	.50"	1.25"	.265"	1.0"	.078"	.107"	.07"	24	9.5	52%	4'x8'
3/4 #16 F	.56#	.923"	2.1"	.75"	1.75"	.048"	.111"	.048"	13	5.7	74%	5'x10', 4'x8'
3/4 #9 F	1.88#	.923"	2.1"	.563"	1.688"	.120"	.165"	.120"	13	5.7	63%	4'x8', 4'x10'

U-Edging

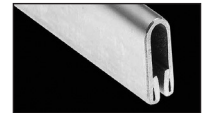


U-edging is a U-shaped strip that is attached to the edge of the expanded metal sheet by a press-fit or weld. It makes the edges safe and provides an attractive appearance. U-edging is available in 10 or 12 foot pieces.

Type	Open	Size	Gauge	Material
401	1/4"	1"x120" 1.5"x120" .75"x144" 1"x144"	18	Steel, Alum.
402	1/8"	1"x120" 1"x144"	18	Steel, Alum.
403	1/16"	1"x144"	18	Steel, Alum.
438	3/8"	1"x120"	18	Steel
450	1/2"	1"x120"	18	Alum.

More framing options available, please inquire.

Hemmed Edging



McNICHOLS® Hemmed Edging is a new high-quality, architectural, folded-edge framing option. More information available, please inquire.

Attachment Clips



ITEM NUMBER:
4040SQ0399
MATERIAL:
Pre-Galvanized Steel
SIZE:
2.95" square
This clip is typically used to attach Expanded Metal to drywall applications where additional security within walls is needed.

NOTE: Measurements are approximate and subject to mill tolerances. All chart specifications may vary. Please inquire if they are critical to your application.

EXPANDED GRATING & CATWALK

WEB CODE: GEG1

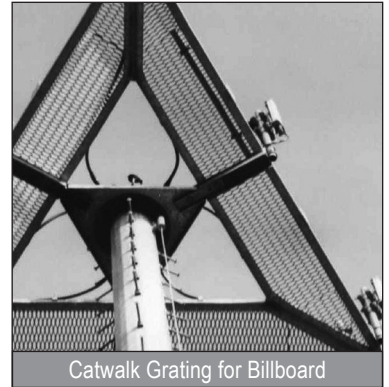


GRATING



CATWALK

Expanded Grating or Expanded Catwalk is an economical solution for ramps, flooring, catwalks, platforms, walkways, treads or other types of lightweight structural applications. Standard Expanded Grating is similar to regular Expanded Metal only considerably heavier and load bearing. Expanded Metal Catwalk Grating is structurally stronger than Standard Expanded Grating because the long way of the diamond runs across a shorter span.



Catwalk Grating for Billboard

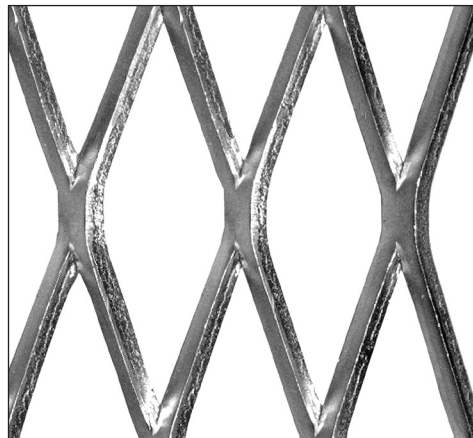
GRATING & CATWALK STOCK LIST

STYLE	#/SQ. FT.	DESIGN SIZE SWD	DESIGN SIZE LWD	OPENING SIZE SWO	OPENING SIZE LWO	STRAND SIZE THICKNESS	STRAND SIZE WIDTH	OVERALL THICKNESS	MESHES/SQ. FT. SWD	MESHES/SQ. FT. LWD	OPEN AREA	COMMON SHEET SIZES
PLAIN STEEL												
3.00#	3.00#	1.33"	5.33"	.940"	3.44"	.183"	.264"	.540"	9	2.25	60%	4'x8'
3.14#	3.14#	2.00"	6.00"	1.625"	4.88"	.250"	.312"	.656"	6	2	69%	4'x8', 4'x10', 6'x10'
4.00#	4.00#	1.33"	5.33"	.940"	3.44"	.215"	.300"	.618"	9	2.25	55%	4'x8', 4'x10'
4.27#	4.27#	1.41"	4.00"	1.000"	2.88"	.250"	.300"	.625"	8.5	3	58%	4'x8', 3'x10'
5.00#	5.00#	1.33"	5.33"	.813"	3.38"	.250"	.331"	.655"	9	2.25	50%	4'x8'
6.25#	6.25#	1.41"	5.33"	.813"	3.38"	.312"	.350"	.715"	8.5	2.25	50%	4'x8'
STAINLESS STEEL TYPE 304												
4.50#	4.50#	1.41"	4.00"	1.00"	2.88"	.250"	.300"	.625"	8.5	3	58%	4' x 10'
ALUMINUM 5052-H32												
2.00#	2.00#	1.33"	5.33"	.940"	3.44"	.250"	.387"	.730"	9	2.25	48%	4'x8'

NOTE: Measurements are approximates and subject to mill tolerances. All chart specifications may vary. Please inquire if they are critical to your application.

CATWALK FIXED SPAN LOAD TABLE

CLEAR SPAN	LOAD	24"	36"	48"
3.00# Steel	U	.275	.100	--
	D	.250	.220	--
	C	.275	.165	.75
	D	.250	.250	.250
3.14# Steel	U	.375	.150	.50
	D	.250	.240	.250
	C	.375	.155	.75
	D	.250	.250	.250
4.00# Steel	U	.350	.150	.50
	D	.240	.245	.250
	C	.440	.220	100
	D	.250	.250	.250
4.27# Steel	U	.500	.165	.60
	D	.245	.245	.250
	C	.400	.225	100
	D	.250	.240	.250
5.00# Steel	U	.600	.175	100
	D	.240	.240	.250
	C	.540	.310	140
	D	.245	.250	.250
6.25# Steel	U	.800	.300	115
	D	.220	.250	.240
	C	.800	.300	150
	D	.220	.240	.240
2.00# Aluminum	C	.250	100	50
	D	.250	.250	.250
4.50# Stainless	C	.300	150	100
	D	.217	.192	.212



Close up Expanded Grating. Photo not to scale.

GRATING & CATWALK LOAD TABLE

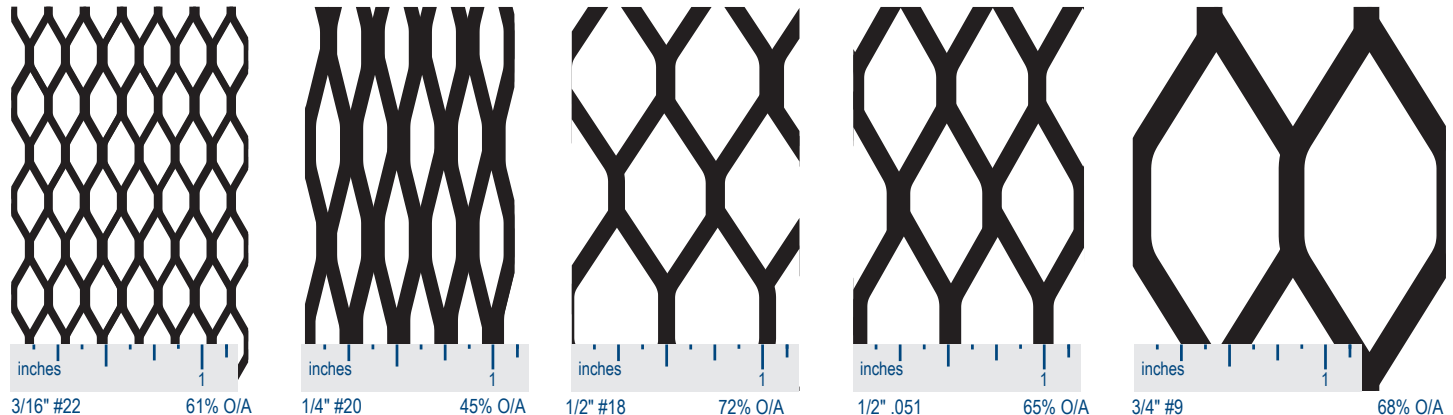
STEEL	CLEAR SPAN							
	23"	30"	35"	42"	47"	54"	60"	
50 lbs./LF	3.0	3.0	3.0	3.0	3.0	4.0	5.0	
	3.14	3.14	3.14	3.14	3.14	4.27	6.25	
100 lbs./LF	3.0	3.0	3.0	4.0	5.0			
	3.14	3.14	3.14	4.27	6.25			
150 lbs./LF	3.0	4.0	4.0	5.0	6.25			
	3.14	4.27	4.27	6.25				
200 lbs./LF	3.0	4.0	4.27	6.25				
	3.14	4.27	5.0					
250 lbs./LF	4.0	5.0	5.0					
	4.27		6.25					
300 lbs./LF	4.0	5.0	6.25					
	4.27	6.25						
350 lbs./LF	4.0	6.25						
	4.27							

Distance between supports is measured from inside edge of one support to inside edge of next support.

NOTE: The concentrated load deflection for the above selection chart does not exceed the 1/4" maximum deflection, and the generally accepted recommendation for normal pedestrian comfort.

U - Uniform Load - pounds/sq. ft.;
D - Deflection in inches;
C - Concentrated Load - pounds/ft. width at mid span

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