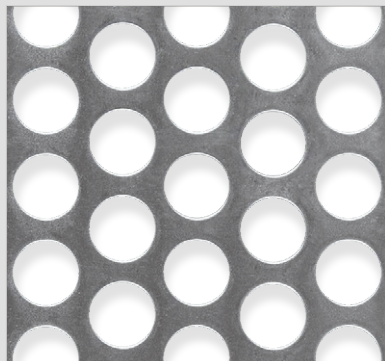
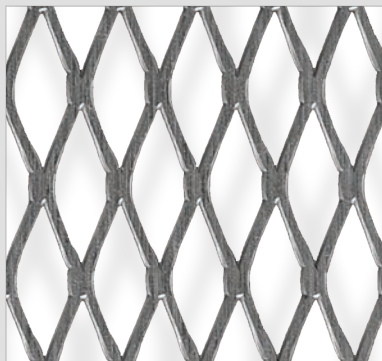


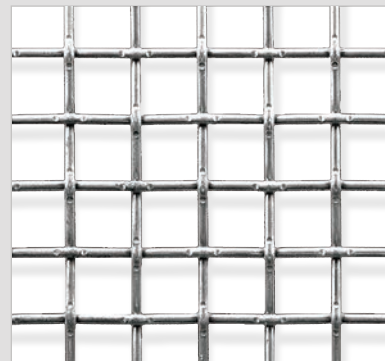
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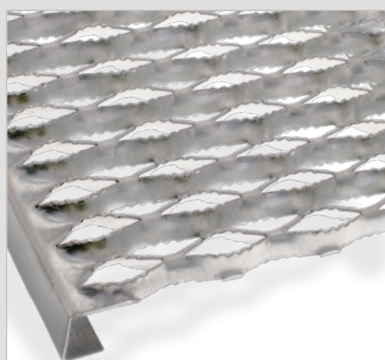
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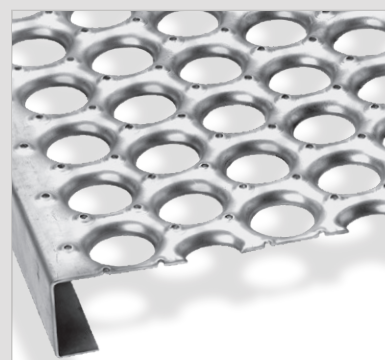
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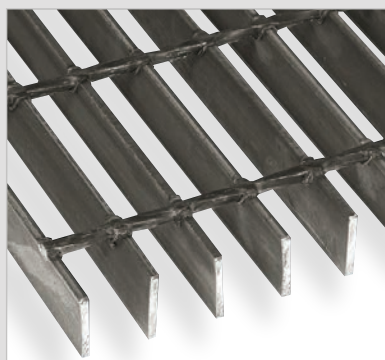
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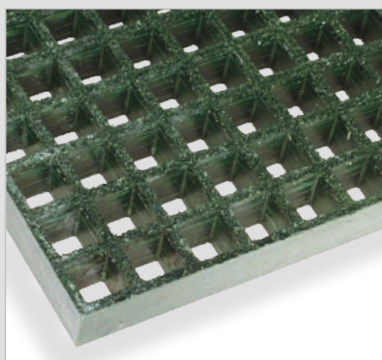
GRIP STRUT® GRATING



PERF-O GRIP® GRATING



BAR GRATING



MOLDED FIBERGLASS



DURAGRID® FIBERGLASS



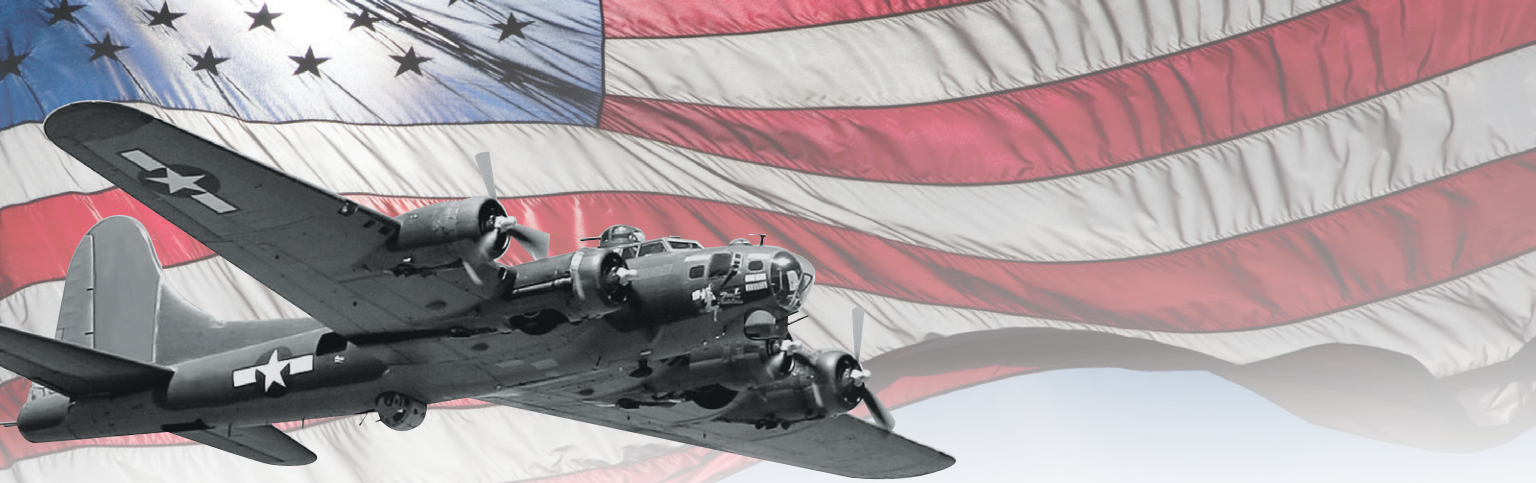
McNICHOLS CO.

800.237.3820

800.237.9212 (español)

monichols.com





The sole survivor of a Boeing B-17 Flying Fortress shot down during World War II, Robert L. "Bob" McNichols pledged to lead his life and business according to Christian principles. He believed in the highest level of service, a dedication to his employees and an appreciation for the customers he had the privilege to serve.

Following discovery by a farmer, Bob was sent to prisoner-of-war camp Stalag Luft I, where he remained until his liberation on May 1, 1945. Seven years to the day after his release from Stalag Luft I, Bob and his wife, Phyllis, founded **McNICHOLS CO.**

When Bob started the business in 1952, he focused on selling products with "holes" such as Perforated and Expanded Metal. This focus led to the motto **The Hole Story®**, which symbolizes the Company's philosophy as well as its products. Bob trademarked **The Hole Story®** and advertised it in the 1975 **McNICHOLS®** Master Catalog. This began the tradition of "hole" references such as "Hole Products" and "The Hole Team." After the unexpected loss of Bob in 1981, his son Gene took the reins. Gene carried on his father's legacy by growing the Company.

In 1990, Gene introduced the "**S**ervice, **Q**uality and **P**erformance" mission. The words embody the spirit of the organization—including its emphasis on customer service, high standards for quality (demonstrated by the ISO 9001:2015 certification) and dedication to performance.

McNICHOLS has grown from a small family business into a national corporation with 19 locations across the country. The essence and spirit of the founder remain ever-present. Bob's faith gave him the courage to build **McNICHOLS** on a Christian foundation. "To God be the Glory!" was one of his favorite sayings.

As **McNICHOLS** continues to grow beyond its 65th year in business, the third generation of the McNichols family—as well as members of The Hole Team—act as stewards of Bob's legacy.

Providing Hole Products Through Superior **S**ervice, **Q**uality and **P**erformance ... That's **The Hole Story®**!



Bob McNichols, Founder
(1922 - 1981)



Dear Hole Customer,

Since 1967, we have been mailing the **McNICHOLS®** Master Catalog to our customers each year. Being in business for more than 65 years, we are confident that our vast inventory selection, convenient locations and knowledgeable product experts are what make **McNICHOLS** your choice for Hole Products. We believe we can help you select the right product for your application.

Our Master Catalog represents our commitment to providing you with excellent customer service. We offer a wide selection of quality Hole Products in stock and ready to go! We trust you will find this book an essential tool and reference guide for your Hole Product needs. In addition, all of the information contained within is available at mcnichols.com.

My grandfather founded our Company on one core principle—providing unsurpassed customer service. It is our mission to continue to fulfill his vision of serving customers. We humbly ask that you allow us to serve you!

Inspired to Serve!®

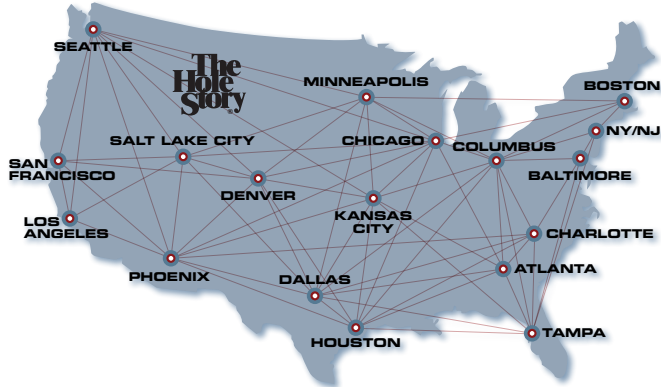
Scott M. McNichols
President

To God Be The Glory!

YOUR HOLE NETWORK

In business for more than 65 years, **McNICHOLS CO.** is North America's leading supplier of "Hole Products," including Perforated and Expanded Metals, Wire Mesh, Designer Metals, Gratings and Flooring Products. Our "Hole Network" of 19 Metals Service Centers are strategically located across the country and are outfitted with metal processing equipment to meet your fabrication and project needs. Customers repeatedly choose **McNICHOLS** because of our knowledgeable team, extensive product inventory, and superior customer service. Please allow us to serve you on your next project!

Inspired to Serve!



HEADQUARTERS

2502 N. Rocky Point Dr., Ste 750
Tampa, FL 33607

ATLANTA

1980 Shiloh Road NW
Building 6, #300
Kennesaw, GA 30144

BALTIMORE

9070 Junction Drive, #M
Annapolis Junction, MD 20701

BOSTON

33 High Street
North Billerica, MA 01862

CHARLOTTE

2307 Distribution Ctr. Dr., #F
Charlotte, NC 28269

CHICAGO

2200 Arthur Avenue
Elk Grove Village, IL 6000

COLUMBUS

4740 Poth Road
Whitehall, OH 43213

DALLAS

3540 W. Miller Road, #240
Garland, TX 75041

DENVER

10394 E. 48th Avenue
Denver, CO 80238

HOUSTON

16405 Air Center Blvd., #100
Houston, TX 77032

KANSAS CITY

15341 W. 100th Terrace
Lenexa, KS 66219

LOS ANGELES

14108 Arbor Place
Cerritos, CA 90703

MINNEAPOLIS

22 Fifth Avenue NW
New Brighton, MN 55112

NJ/NYC AREA

2 Home News Row
New Brunswick, NJ 08901

PHOENIX

5780 S. 40th Street, Ste. 3
Phoenix, AZ 85040

SALT LAKE CITY

271 W. 12800 South, Ste 210-211
Draper, UT 84020

SAN FRANCISCO

174 Lawrence Drive, Ste G
Livermore, CA 94551

SEATTLE

3400-B Industry Drive East
Fife, WA 98424

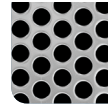
TAMPA

9401 Corporate Lake Drive
Tampa, FL 33634

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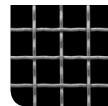
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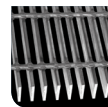
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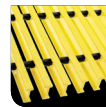
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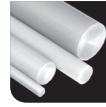
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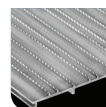
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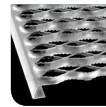
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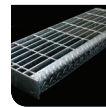
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Application photos reflected are typical of our types of products in use that can be supplied or have been supplied by **McNICHOLS CO.** Some photos may depict uses designed, manufactured, fabricated or installed by others.

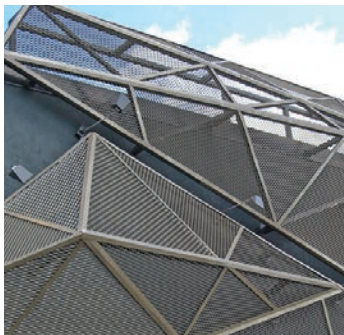


McNICHOLS® HOLE PRODUCTS ARE USED ACROSS MANY INDUSTRIES

Architectural ■ Construction ■ Distribution ■ Energy ■ Government ■ Hospitality
Maintenance ■ Metal Fabrication ■ Manufacturing ■ Marine ■ Residential ■ Utilities



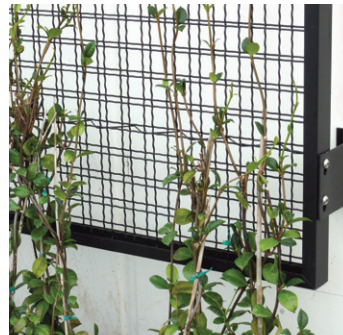
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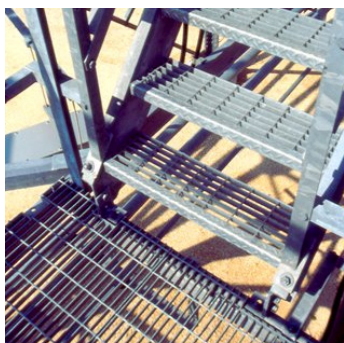
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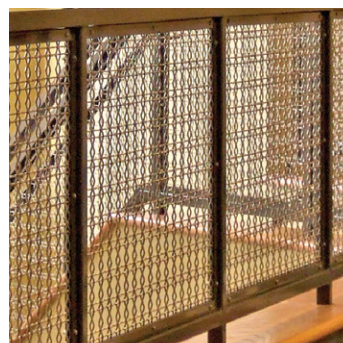
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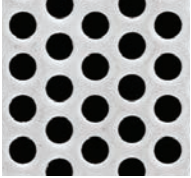
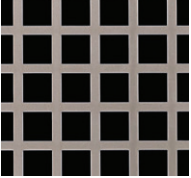
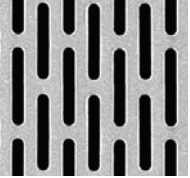
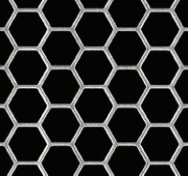
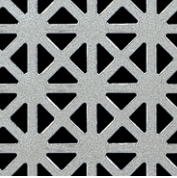
For more than 65 years, customers have made the repetitive choice to trust **McNICHOLS** with their Hole Product needs. Customers also look to us for Value-Added Services. Whether you need cutting, notching, welding or a particular metal finish for your product selections, **McNICHOLS** has you covered! We look forward to discussing how we can support and serve you!



PERFORATED METAL

McNICHOLS has the largest selection of Perforated Metal in North America, available in a variety of hole shapes, sizes, gauges, and material types. Perforated Metal is used for its versatility, high strength-to-weight ratio, and aesthetic appeal. It is a popular choice among designers and architects. Some uses include screening, ventilation, and security enclosures. The openings permit passage of light, air, sound, and liquid, and the product is lightweight and easy to fabricate and form.

PRODUCT SPECIFICATIONS

HOLE TYPES					
	ROUND	SQUARE	SLOTTED	HEXAGONAL	DESIGNER
PRIMARY MATERIAL	Aluminum, Carbon Steel, Pre-Galvanized, Stainless Steel, PLASTIPERF™, PERF-PANL™, FLEX ANGLE®	Aluminum, Carbon Steel, Stainless Steel	Aluminum, Carbon Steel	Aluminum, Carbon Steel	Aluminum, Carbon Steel
GAUGE	0.020" to 3/8"	0.032" to 11	0.032" to 16	0.032" to 16	0.032" to 11
HOLE SIZE	0.027" to 1"	0.020" to 3/4"	W 1/8" to 0.200" L 0.637" to 1"	0.025" to 1/2"	Varies with Pattern
HOLE CENTER	0.050" to 1-1/4"	1/2" to 1"	Varies with Pattern	0.281" to 0.562"	Varies with Pattern
% OPEN AREA	5% to 63%	11% to 56%	41% to 74%	79% to 80%	35% to 68%
STANDARD SHEET SIZES	24" x 24" 36" x 40" 36" x 48" 48" x 30" 48" x 48" 36" x 24" 48" x 24" 36" x 96" 48" x 96" 36" x 120" 48" x 120" 48" x 144" 60" x 120" 60" x 144"	36" x 24" 36" x 48" 48" x 24" 36" x 96" 48" x 96" 48" x 120"	36" x 24" 36" x 40" 48" x 24" 36" x 96" 36" x 120"	24" x 24" 36" x 40" 36" x 24" 48" x 24" 48" x 48" 36" x 96" 48" x 96" 36" x 120" 48" x 120"	36" x 24" 48" x 24" 36" x 40" 36" x 48" 36" x 96" 36" x 120" 48" x 96" 48" x 120"

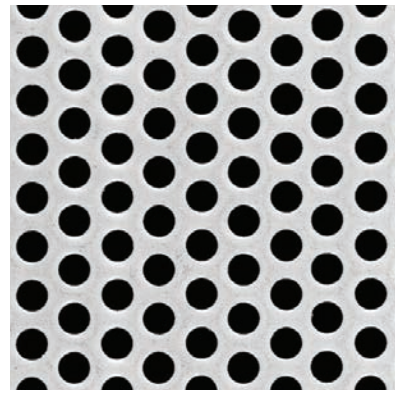
WE ARE READY AND **INSPIRED TO SERVE®** YOU AT 800.237.3820!



McNICHOLS® Perforated Metal, Round Hole - Wall Cladding, Harley-Davidson Museum®, Milwaukee, WI



McNICHOLS® Perforated Metal, Square Hole - Infill Panels, Stair Risers, University of Maryland, College Park, MD



HOW TO ORDER/SPECIFY McNICHOLS® PERFORATED METAL

The information provided below is your guide for choosing the right **McNICHOLS®** PERFORATED METAL product for your project. Please specify:

APPLICATION – Perforated Metal use

HOLE TYPE – Type of hole (Round, Square, Hexagonal or Slotted) or Designer pattern

PRIMARY MATERIAL – Type of material (Aluminum, Carbon Steel, Galvanized, Stainless Steel)

MATERIAL FINISH – Inventory is typically mill finish unless otherwise specified.

GAUGE (THICKNESS) – Material gauge number or thickness in inches (*Table of Gauges & Weights* on page 6 has additional information)

HOLE PATTERN – Hole size, shape, spacing and arrangement (staggered pattern, straight row, etc.) or Designer pattern

OPEN AREA – Percentage of open area

MARGINS/END PATTERN – Most inventory patterns (11 Gauge and lighter) have solid margins (length of sheet) with no end pattern (material is sheared through) unless otherwise specified.

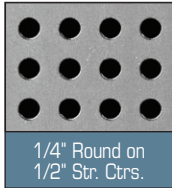
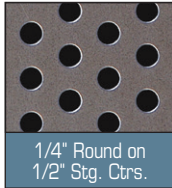
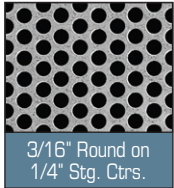
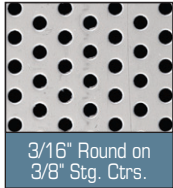
QUANTITY/SIZE(S) – Number of sheets and/or sizes (including cut-to-size pieces)

SPECIAL – Requirements such as fabrication, edge treatments, solid margins, finishing, flatness, leveling, non-standard tolerances, etc.

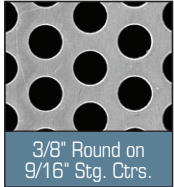
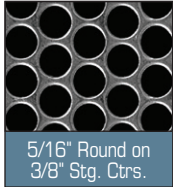
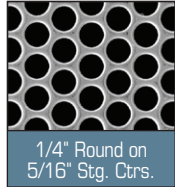
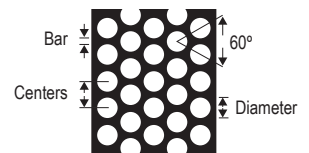
ACCESSORIES – Angle, Flat Bar or U-Edging framing solutions.

ROUND HOLE PERFORATED METAL

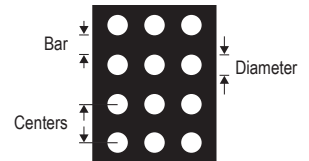
McNICHOLS® Round Hole Perforated Metal is an extremely versatile product offered in various diameters, gauges, materials, and sheet size options.



Staggered Row Pattern



Straight Row Pattern



ROUND HOLE STOCK LIST

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
ALUMINUM, ALLOY TYPE 3003-H14			
0.033" RD	0.050" Str.	.032	34%
1/16" RD	3/32" Stg.	.032, .063	41%
1/16" RD	7/64" Stg.	.063	30%
1/16" RD	1/8" Stg.	.032, .040	23%
3/32" RD	5/32" Stg.	.032, .050, .080	33%
3/32" RD	3/16" Stg.	.050	23%
0.117" RD	5/32" Stg.	.032	51%
1/8" RD	3/16" Stg.	.032, .050, .063, .125	40%
5/32" RD	3/16" Stg.	.063	63%
3/16" RD	1/4" Stg.	.032, .050, .063, .125	51%
3/16" RD	5/16" Stg.	.063, .125	33%
1/4" RD	5/16" Stg.	.063, .125	58%
1/4" RD	3/8" Stg.	.040, .063, .125	40%
1/4" RD	1/2" Stg.	.250	23%
3/8" RD	9/16" Stg.	.063, .125	40%
1/2" RD	11/16" Stg.	.063, .125, .250	48%
3/4" RD	1" Stg.	.063, .125	51%
1" RD	1-1/4" Stg.	.125	58%
ALUMINUM, ALLOY TYPE 5052-H32			
3/16" RD	3/8" Stg.	.040	23%
3/16" RD	1/4" Stg.	.032, .063	51%
3/16" RD	5/16" Stg.	.063	32%
1/4" RD	3/8" Stg.	.125	40%
1/4" RD	5/16" Stg.	.032	58%
1/2" RD	11/16" Stg.	.063, .125	48%
CARBON STEEL			
0.027" RD	0.050" Str.	26	23%
0.045" RD	0.066" Str.	24	36%
0.045" RD	0.088" Stg.	24	24%
1/16" RD	3/32" Stg.	24, 22, 20	41%
1/16" RD	7/64" Stg.	16	30%
1/16" RD	1/8" Stg.	22, 20, 18, 16	23%
5/64" RD	7/64" Stg.	20	46%
5/64" RD	1/8" Stg.	18, 16	36%
3/32" RD	5/32" Stg.	24, 22, 18, 16, 14	33%

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
CARBON STEEL (CONT.)			
3/32" RD	5/32" Stg.	24, 22, 18, 16, 14	33%
3/32" RD	3/16" Stg.	14	23%
0.117" RD	5/32" Stg.	22	51%
1/8" RD	3/16" Stg.	24, 22, 20, 18, 16, 14, 12, 11	40%
1/8" RD	1/4" Stg.	20, 16	23%
9/64" RD	3/16" Stg.	20, 18, 11	51%
5/32" RD	3/16" Stg.	22, 20, 18, 16	63%
3/16" RD	1/4" Stg.	22, 20, 18, 16, 14, 12, 11	51%
3/16" RD	5/16" Stg.	18, 16, 11, 3/16	33%
3/16" RD	3/8" Stg.	14	23%
1/4" RD	5/16" Stg.	20, 18, 16, 14, 12	58%
1/4" RD	3/8" Stg.	20, 18, 16, 14, 12, 11, 10, 3/16, 1/4	40%
1/4" RD	1/2" Str.	20	20%
1/4" RD	1/2" Stg.	20, 16, 14, 11	23%
1/4" RD	1" Str.	20	5%
5/16" RD	3/8" Stg.	16	63%
5/16" RD	7/16" Stg.	11	46%
3/8" RD	1/2" Stg.	11, 1/4	51%
3/8" RD	9/16" Stg.	16, 12, 11, 3/16, 1/4	40%
1/2" RD	11/16" Stg.	20, 16, 14, 11, 10, 3/16, 1/4, 3/8	48%
3/4" RD	1" Stg.	16, 11, 3/16, 1/4	51%
1" RD	1-1/4" Stg.	11, 1/4	58%

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
STAINLESS STEEL, TYPE 304			
0.033" RD	0.055" Str.	26	28%
0.045" RD	0.066" Str.	26, 24	36%
1/16" RD	3/32" Stg.	22, 20	41%
1/16" RD	1/8" Stg.	22, 20, 18	23%
5/64" RD	7/64" Stg.	20	46%
3/32" RD	5/32" Stg.	22, 20, 18, 16	33%
3/32" RD	3/16" Stg.	22	22%
1/8" RD	3/16" Stg.	22, 20, 18, 16, 14, 12, 11	40%
5/32" RD	3/16" Stg.	24, 20, 18, 16	63%
3/16" RD	1/4" Stg.	22, 20, 18, 16	51%

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
STAINLESS STEEL, TYPE 304 (CONT.)			
3/16" RD	5/16" Stg.	16, 11	33%
1/4" RD	5/16" Stg.	22, 20, 18, 16	58%
1/4" RD	3/8" Stg.	22, 20, 18, 16, 14, 11, 3/16	40%
5/16" RD	7/16" Stg.	16	46%
3/8" RD	1/2" Stg.	11	51%
3/8" RD	9/16" Stg.	16, 14, 11	40%
1/2" RD	11/16" Stg.	16, 14, 11, 3/16, 1/4	48%
3/4" RD	1" Stg.	16, 11	51%
1" RD	1-1/4" Stg.	11	58%

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
STAINLESS STEEL, TYPE 316			
1/16" RD	3/32" Stg.	22, 20	41%
1/16" RD	1/8" Stg.	22, 20, 18	23%
3/32" RD	3/16" Stg.	22	22%
1/8" RD	3/16" Stg.	22, 20, 18, 16, 14, 12, 11	40%
5/32" RD	3/16" Stg.	24, 20, 18, 16	63%
3/16" RD	1/4" Stg.	22, 20, 18, 16	51%
3/16" RD	3/8" Stg.	16	23%
1/4" RD	5/16" Stg.	22, 20, 18, 16	58%
1/4" RD	3/8" Stg.	16, 14, 11	40%

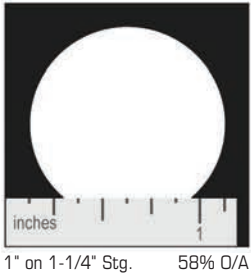
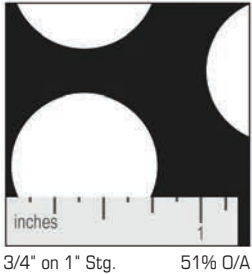
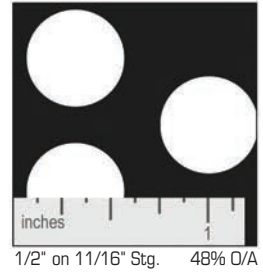
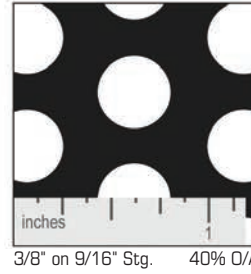
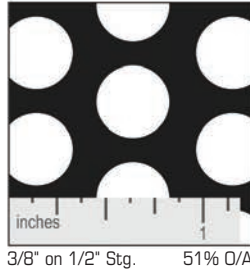
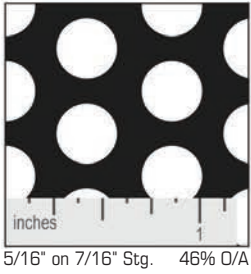
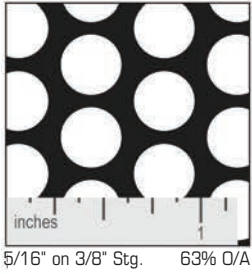
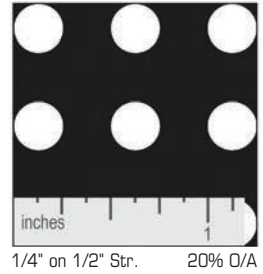
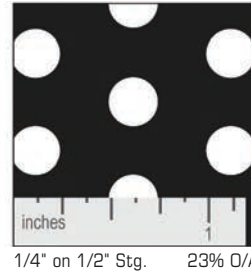
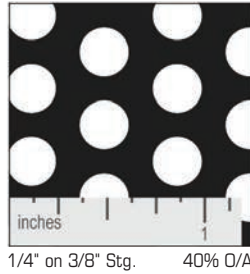
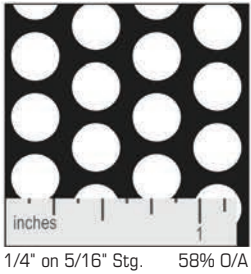
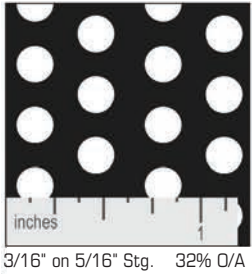
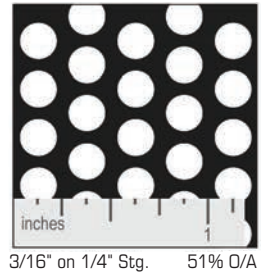
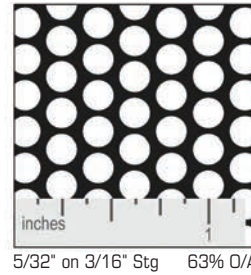
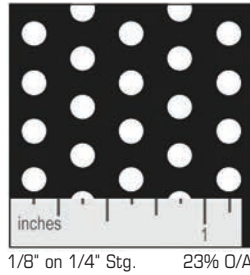
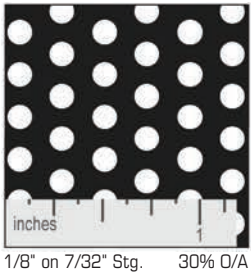
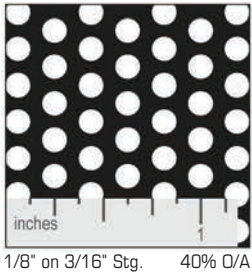
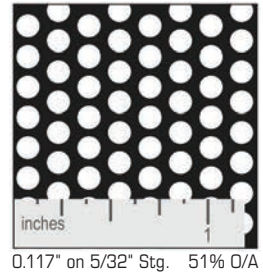
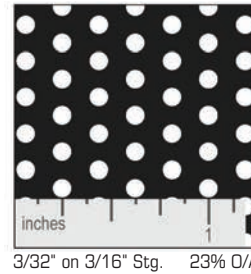
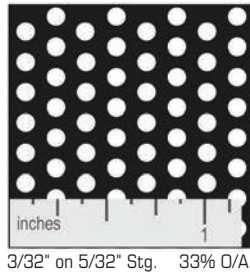
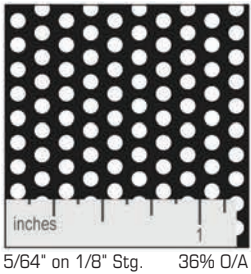
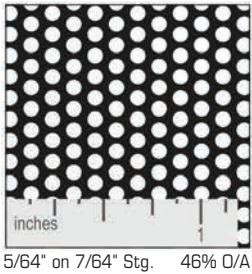
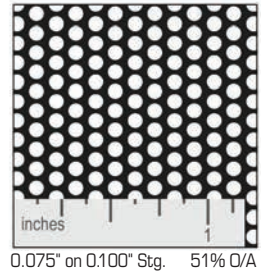
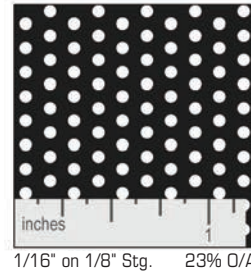
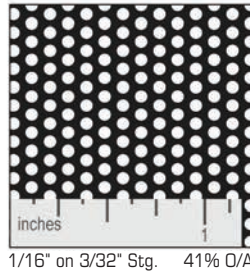
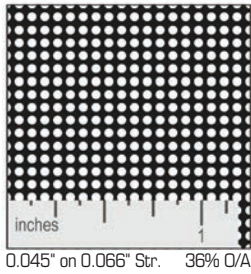
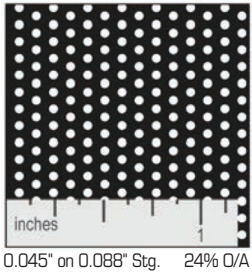
HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
PRE-GALVANIZED G90			
1/16" RD	3/32" Stg.	22	41%
3/32" RD	3/16" Stg.	22, 20	23%
1/8" RD	3/16" Stg.	24, 20, 18, 16	40%
5/32" RD	3/16" Stg.	22	63%
3/16" RD	1/4" Stg.	18, 16	51%
1/4" RD	5/16" Stg.	20	58%
1/2" RD	11/16" Stg.	18	48%

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
OTHER			
0.033" RD	0.056" Str.	.020 (Brass/Alloy)	28%
1/8" PLASTIPERF™	3/16" Stg.	.063 (Plastic)	40%
3/16" PLASTIPERF™	5/16" Stg.	.125 (Plastic)	32%
1/4" PERF-PANL™	1" Str.	20 (Carbon Steel, Stainless Steel 304)	5%
1/4" PERF-PANL™ Small Collar	1" Str.	20 (Stainless Steel 304)	5%

PLEASE NOTE: The most common sheet sizes for McNICHOLS® Round Hole Perforated Metal are 36" x 96", 48" x 96", 36" x 120" and 48" x 120". Small parts are stocked in many smaller sizes and include a variety of patterns, gauges and materials. Widths of 60" and lengths of 144" are also available from inventory. We value your business and want to ensure a positive ordering experience. Please note that stock items may not be available at each location and on-hand quantities are subject to change. Items that are made-to-order or cut-to-size cannot be returned. Pictures above are not to scale. For actual scale diagrams, please see page 5.

*Please refer to the Table of Gauges & Weights on page 6.

ROUND HOLE PERFORATED METAL DIAMETERS TO SCALE



MINIMUM HOLE SIZE & MINIMUM BAR WIDTH GUIDELINES

When perforating metal, the hole diameter should not be less than the gauge (thickness) of the material. The closer to a one-to-one ratio, the higher the probability of tool failure and the greater the precautions necessary to avoid it.

Some modifications can be made at additional cost. For Stainless Steel and similar higher strength materials, it is preferable to specify at least three gauges thinner than the hole diameter.

The same general rule applies to bar width. The bar width should be greater than material thickness because of the increased number of punches and, therefore, increased perforation tonnage. The bar width can be adjusted at additional cost.



1/8" Round on
3/16" Stg. Ctrs.



1/8" Round on
3/16" Stg. Ctrs.

PLASTIPERF™

McNICHOLS PLASTIPERF™ is made from Polypropylene Plastic that excels in damp or corrosive environments and is non-magnetic, anti-static, and lightweight. Not only does plastic reduce the weight of the material, it also controls the flow of air and light, as well as aids in visibility at a location.

APPLICATIONS

Signs • Filters • Baskets • Strainers • Sizing Screens • Ceiling Tiles
Insulation Parts • Sunshades

INDUSTRIES

Plating • Hatcheries • Food • Electronics

PERF-PANL™

McNICHOLS PERF-PANL™ has indented round holes and is typically used for displays, exhibits, and fixtures. Available from inventory in both Carbon Steel and Stainless Steel.

APPLICATIONS

Display Fixtures • Store Wall Panels • Custom Exhibits • Point-of-Purchase • Utility Dividers

INDUSTRIES

Retail/Wholesale Stores • Automotive Tradeshows



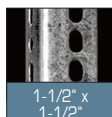
McNICHOLS PERF-PANL™
- Retail Store Display

PLASTIPERF™ STOCK LIST

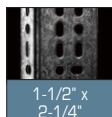
HOLE DIAMETER	HOLE CENTER	GAUGE	% O/A	STANDARD SHEET SIZE
1/8" Round	3/16" Stg.	.063"	40%	48" x 96"
3/16" Round	5/16" Stg.	.125"	32%	48" x 96"

PERF-PANL™ STOCK LIST

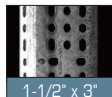
MATERIAL	HOLE DIA.	HOLE CENTER	GAUGE	% O/A	STANDARD SHEET SIZE
Carbon Steel, Stainless Steel	1/4" RD	1" Str.	20	5%	48" x 96", 48" x 120"
Stainless Steel (Small Collar)	1/4" RD	1" Str.	20	5%	48" x 96"



1-1/2" x
1-1/2"



1-1/2" x
2-1/4"



1-1/2" x 3"

FLEX ANGLE®

McNICHOLS FLEX ANGLE® is offered in a Perforated, zinc-coated, Pre-Galvanized material commonly used for storage racks, garage door brackets, and other purposes.

CONSTRUCTION Slotted angle holes are punched after material has been Galvanized.

MATERIAL Pre-Galvanized Steel with zinc coating thickness of at least .0010"

SIZES 1-1/2" x 1-1/2", 2-1/4" or 3" (Product can be cut-to-size in the field.)

PACKAGE 10 lengths of Angle, 75 Nuts, Bolts



McNICHOLS
FLEX ANGLE® - Parts Shelf

FLEX ANGLE® STOCK LIST

MATERIAL	GAUGE	ANGLE LEG SIZE X LENGTH
Galvanized	14	1-1/2" x 1-1/2" x 120"
Galvanized	14	1-1/2" x 1-1/2" x 144"
Galvanized	14	1-1/2" x 2-1/4" x 120"
Galvanized	12	1-1/2" x 3" x 144"
Galvanized	14	1-1/2" x 2-1/4" x 144"



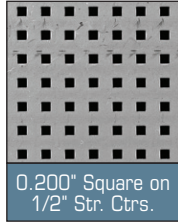
FLEX ANGLE®
Punch Strap
Accessory

TABLE OF GAUGES & WEIGHTS

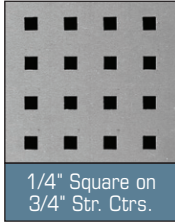
GAUGE	STEEL		GALVANIZED STEEL		STAINLESS STEEL			MONEL		BRASS		COPPER		ALUMINUM		ZINC		TIN	
	USS Gauge Rev.		USS Gauge		USS Gauge	Lbs. per Sq. Ft.		USS Gauge		B&S Gauge		BW Gauge		B&S Gauge		Zinc Gague		Tin Plate Guage	
	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Chrome Alloy	Chrome Nickel	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Lbs. per Sq. Ft.	Decimal Thick	Lbs. per Sq. Ft.
32	.1000	0.408	.0134	0.560	.009	0.371	0.378	--	--	.0800	0.353	.0080	0.371	.008	0.113	--	--	.0061	2526
31	.1110	0.449	.0142	0.594	.010	0.412	0.420	.010	0.459	.0089	0.392	.0100	0.464	.009	0.127	--	--	.0066	2755
30	.1200	0.490	.0157	0.656	.012	0.495	0.504	.012	0.551	.0100	0.441	.0108	0.500	.010	0.141	--	--	.0072	2985
29	.1350	0.563	.0172	0.719	.013	0.536	0.546	.014	0.650	.0113	0.498	.0126	0.584	.011	0.155	--	--	.0077	3214
28	.1490	0.625	.0187	0.781	.015	0.599	0.610	.015	0.689	.0126	0.555	.0135	0.625	.012	0.170	--	--	.0083	3444
27	.1640	0.688	.0202	0.844	.016	0.660	0.672	--	--	.0142	0.626	.0159	0.737	.014	0.197	.500	18.60	.0088	3673
26	.1790	0.750	.0217	0.906	.017	0.736	0.750	.018	0.827	.0159	0.700	.0162	0.750	.016	0.225	.375	14.00	.0094	3903
25	.0209	0.875	.0247	1.031	.021	0.866	0.882	.021	0.965	.0179	0.789	.0189	0.875	.018	0.254	.250	9.30	.0099	4133
24	.0239	1.000	.0276	1.156	.023	0.972	0.990	.025	1.148	.0201	0.886	.0201	0.932	.020	0.282	.125	4.70	.0105	4362
23	.0269	1.125	.0306	1.281	.026	1.072	1.092	.028	1.286	.0226	0.996	.0216	1.000	.022	0.310	.100	3.75	.0110	4592
22	.0299	1.250	.0336	1.406	.029	1.197	1.220	.031	1.424	.0254	1.115	.0226	1.050	.025	0.353	.090	3.37	.0118	4913
21	.0329	1.375	.0366	1.531	.032	1.319	1.344	.034	1.562	.0285	1.256	.0243	1.125	.028	0.395	.080	3.00	.0123	5143
20	.0359	1.500	.0396	1.656	.035	1.462	1.490	.037	1.700	.0302	1.410	.0253	1.170	.032	0.452	.070	2.62	.0130	5418
19	.0418	1.750	.0456	1.906	.042	1.731	1.764	.043	1.975	.0359	1.582	.0270	1.250	.036	0.508	.060	2.25	.0141	5878
18	.0478	2.000	.0516	2.156	.048	1.979	2.016	.050	2.297	.0403	1.776	.0285	1.320	.040	0.564	.055	2.06	.0149	6199
17	.0538	2.250	.0575	2.406	.054	2.226	2.268	.056	2.572	.0453	1.996	.0320	1.480	.045	0.635	.050	1.87	.0153	6383
16	.0598	2.500	.0635	2.656	.060	2.454	2.500	.062	2.848	.0508	2.238	.0323	1.500	.050	0.706	.045	1.68	.0160	6795
15	.0673	2.812	.0710	2.969	.067	2.762	2.814	.070	3.216	.0571	2.516	.0350	1.625	.056	0.790	.040	1.50	.0171	7117
14	.0747	3.125	.0785	3.281	.075	3.047	3.150	.078	3.583	.0641	2.825	.0359	1.660	.063	0.889	.036	1.35	.0185	7714
13	.0897	3.750	.0934	3.906	.090	3.170	3.780	.093	4.272	.0720	3.173	.0377	1.750	.071	1.000	.032	1.20	.0193	8036
12	.1046	4.375	.1084	4.531	.105	4.328	4.410	.109	5.007	.0808	3.560	.0431	2.000	.080	1.130	.028	1.05	.0198	8265
11	.1196	5.000	.1233	5.156	.120	4.946	5.040	.125	5.742	.0907	3.997	.0485	2.250	.090	1.270	.024	0.90	.0207	8633
10	.1345	5.625	.1382	5.781	.135	5.523	5.628	.140	6.431	.1019	4.490	.0508	2.360	.100	1.410	.020	0.75	.0215	8954
9	.1495	6.250	.1532	6.406	.150	6.183	6.300	.156	7.166	.1144	5.041	.0512	2.375	.112	1.579	.018	0.67	.0229	9551
8	.1644	6.875	.1681	7.031	--	--	6.930	.172	7.855	.1285	5.662	.0539	2.500	.125	1.760	.016	0.60	.0231	9643
7	.1793	7.500	--	--	.165	6.801	7.854	.187	8.590	.1443	6.358	.0641	2.970	.140	1.980	.014	0.52	.0237	9872
3/16"	.1875	7.660	--	--	.187	7.708	8.579	--	--	--	--	--	--	--	.187	2.713	PLEASE NOTE: To calculate weight per square foot of Perforated Metal (a) subtract % open area from 100% to determine % material in metal; (b) multiply % material in metal times blank pounds per square foot of material (open area % does not include margins).		
1/4"	.2500	10.210	--	--	--	11.160	11.160	--	--	--	--	--	--	--	--	3.530			
5/16"	.3125	12.760	--	--	--	15.750	13.750	--	--	--	--	--	--	--	--	4.420			
3/8"	.3750	15.320	--	--	--	15.970	16.500	--	--	--	--	--	--	--	--	5.290			
1/2"	.5000	20.420	--	--	--	--	21.660	--	--	--	--	--	--	--	--	7.060			
5/8"	.6250	25.530	--	--	--	--	26.830	--	--	--	--	--	--	--	--	8.920			
3/4"	.7500	30.630	--	--	--	--	32.120	--	--	--	--	--	--	--	--	10.580			
1"	1.0000	40.800	--	--	--	--	42.670	--	--	--	--	--	--	--	--	14.110			

SQUARE HOLE PERFORATED METAL

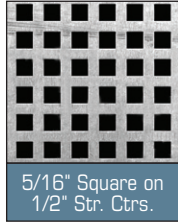
McNICHOLS® Square Hole Perforated Metal is an attractive alternative to Round Holes in many applications.



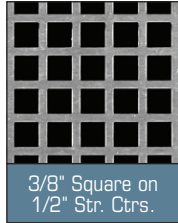
0.200" Square on
1/2" Str. Ctrs.



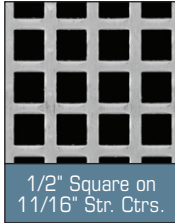
1/4" Square on
3/4" Str. Ctrs.



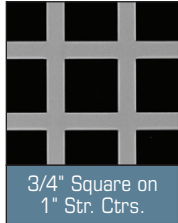
5/16" Square on
1/2" Str. Ctrs.



3/8" Square on
1/2" Str. Ctrs.



1/2" Square on
1 1/16" Str. Ctrs.

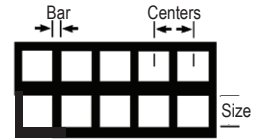


3/4" Square on
1" Str. Ctrs.

SQUARE HOLE STOCK LIST

HOLE SIZE	HOLE CENTER	GAUGE	% O/A	STANDARD SHEET SIZE
ALUMINUM, ALLOY TYPE 3003-H14				
5/16" SQ	1/2" Str.	.050	39%	48" x 96"
3/8" SQ	1/2" Str.	.032	56%	48" x 120"
1/2" SQ	1 1/16" Str.	.050, .063	53%	48" x 96" 48" x 120"
ALUMINUM, ALLOY TYPE 5052-H32				
1/4" SQ	3/4" Str.	.032	11%	48" x 120"
CARBON STEEL				
0.200" SQ	1/2" Str.	18	16%	36" x 120"
3/8" SQ	1/2" Str.	16	56%	36" x 96" 48" x 120"
1/2" SQ	1 1/16" Str.	16, 12	53%	48" x 120"
3/4" SQ	1" Str.	16, 11	56%	48" x 120"

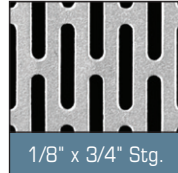
Straight Row Pattern



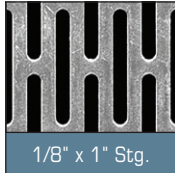
McNICHOLS® Perforated
Metal, Square Hole - Infill Panel

SLOTTED HOLE PERFORATED METAL

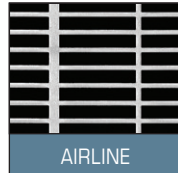
McNICHOLS® Slotted Hole Perforated Metal has elongated holes with Round or Square ends in a straight row or side and end staggered pattern.



1/8" x 3/4" Stg.



1/8" x 1" Stg.



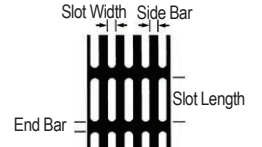
AIRLINE

Product
samples are
available at
800.237.3820

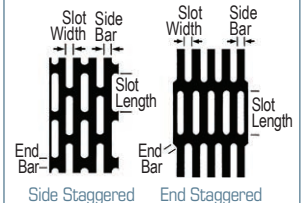
SLOTTED HOLE STOCK LIST

SLOT SHAPE	SLOT SIZE	PATTERN	GAUGE	% O/A	STANDARD SHEET SIZE
ALUMINUM, ALLOY TYPE 3003-H14					
AIRLINE	1-1/2" x 1/4"	Straight Row	.040, .063	68%	36" x 96", 48" x 96" 48" x 120"
CARBON STEEL					
Square End	0.200" x 0.637"	Straight Row	22	74%	36" x 120"
Round End	1/8" x 3/4"	Side Staggered	22	41%	36" x 96"
Round End	1/8" x 1"	Side Staggered	16	43%	36" x 120"
AIRLINE	1-1/2" x 1/4"	Straight Row	18, 16	68%	36" x 120", 36" x 96"

Straight Row Pattern

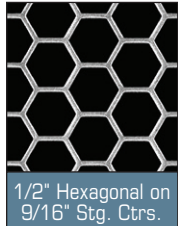


Staggered Row Pattern



HEXAGONAL PERFORATED METAL

McNICHOLS® Hexagonal Perforated Metal offers substantial open area and can be used in industrial or architectural applications.



1/2" Hexagonal on
9/16" Stg. Ctrs.

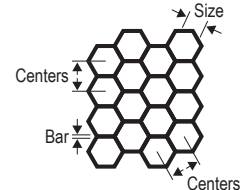


1/4" Hexagonal on
9/32" Stg. Ctrs.

HEXAGONAL STOCK LIST

HOLE SIZE	PATTERN	GAUGE	% O/A	STANDARD SHEET SIZE
ALUMINUM, ALLOY TYPE 3003-H14				
1/4" Hexagonal	9/32" Stg.	.032	79%	36" x 120", 48" x 120"
CARBON STEEL				
1/4" Hexagonal	9/32" Stg.	22	79%	36" x 120"
1/2" Hexagonal	9/16" Stg.	16	80%	36" x 96", 48" x 96", 48" x 120"

Staggered Row Pattern



PERFORATED METAL FRAMING SOLUTIONS



ANGLE



FLAT BAR



U-EDGING

McNICHOLS has several framing options to choose from including Angle, Flat Bar, and U-Edging. A U-shaped strip that is attached to the edge of the Perforated Metal sheet by a press-fit or weld, U-Edging covers the sharp edges and provides an attractive appearance. It is available in 120" or 144" lengths or can be cut-to-size.

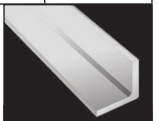
U-EDGING STOCK LIST

TYPE	MATERIAL	GAUGE	OPEN	SIZE
401	Aluminum, Steel	14, 11	1/4"	1" x 120", 1-1/2" x 120" 3/4" x 144", 1" x 144"
402	Aluminum, Steel	14, 11	1/8"	1" x 120", 1" x 144"
403	Aluminum, Steel	14, 11	1/16"	1" x 144"
438	Steel	14, 11	3/8"	1" x 120"
450	Aluminum	14, 11	1/2"	1" x 120"

ANGLE STOCK LIST

MATERIAL	SIZE	GAUGE
Steel	2" x 2" x 1/4"	.250"
Steel	1-3/4" x 1-3/4" x 1/4"	.250"
Steel	1-1/4" x 1-1/4" x 1/8"	.125"
Steel	1-1/4" x 1-1/4" x 1/4"	.250"
Steel	1" x 1" x 1/8"	.125"

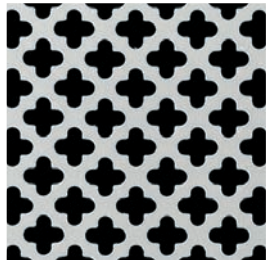
Angle may be used to frame Perforated Metal when the product is welded to one flange of the Angle.



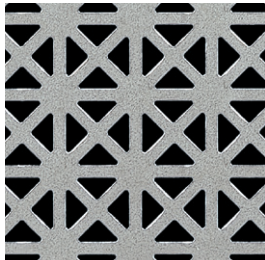
PLEASE NOTE: Pictures above are not to scale. We value your business and want to ensure a positive ordering experience. Please note that stock items may not be available at each location and on-hand quantities are subject to change. Items that are made-to-order or cut-to-size cannot be returned.

DESIGNER PERFORATED METAL

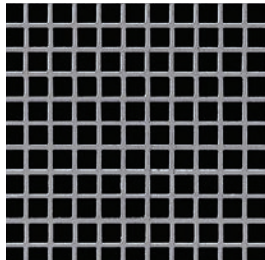
Architects, contractors and designers choose **McNICHOLS®** Designer Perforated Metals for their versatility and elegance. Designer patterns offer a high-end, artistic look with similar functionality as other Perforated Metal styles.



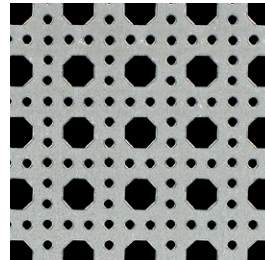
FULL CLOVERLEAF



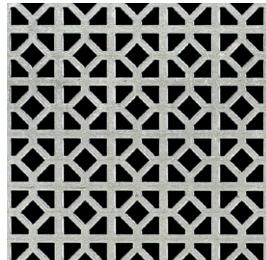
GRECIAN



HANOVER SQUARE



OCTAGON CANE



WINDSOR



McNICHOLS® Designer Perforated Metal, WINDSOR - Cabinet Inserts

DESIGNER PERFORATED STOCK LIST

SERIES NAME	DESCRIPTION	GAUGE	% O/A	STANDARD SHEET SIZE
ALUMINUM, ALLOY TYPE 3003-H14				
WINDSOR	Triangular and Diamond Holes	.040	45%	36" x 96"
CARBON STEEL				
FULL CLOVERLEAF	1/2" Staggered Clovers	20	51%	36" x 96"
GRECIAN	Triangular Holes	24, 22	35%	36" x 96", 36" x 120"
HANOVER SQUARE	2/10" Square on 1/4" Straight Rows	22, 20	64%	36" x 120"
OCTAGON CANE	9/32" Octagons on 7/64" Straight Rows	22	36%	36" x 96"
WINDSOR	Triangular and Diamond Holes	20	45%	36" x 96"

DESIGNER PERFORATED METAL GRILLES

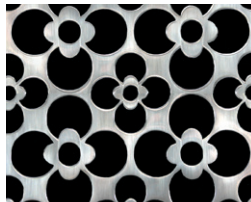
McNICHOLS® Designer Perforated Metal Grilles are available in Aluminum, Brass, Bronze, Carbon Steel, and Stainless Steel. Finishes include Satin, Mirror Polish, Statuary Antique Bronze, and Primed, as well as Baked Enamel and powder coating colors. Add beautiful, jewelry-like elements to your surroundings with Designer Perforated Grilles. Our Architectural Products Team is ready and **Inspired to Serve®** you at **866.754.5144** or **designermetals@mcnichols.com**.



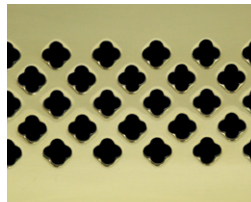
CATHEDRAL



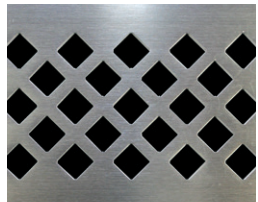
CLASSIC



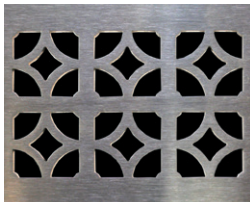
CLOVER DREAM



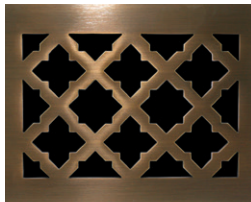
CLOVERLEAF



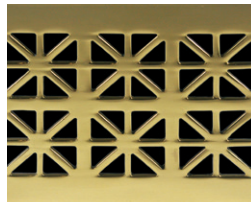
DIAMOND



EGYPTIAN



GOTHIC



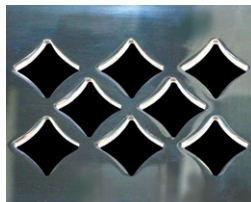
GRECIAN



HALF SHELL



MAJESTIC



MOSAIC



SHELL



McNICHOLS® Designer Perforated Grille, MAJESTIC, Stainless Steel, Mirror Polish, 40% Open Area - Cabinet Inserts



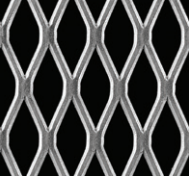
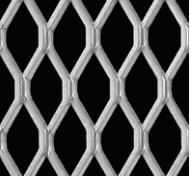

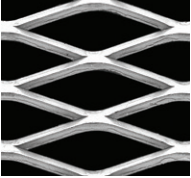
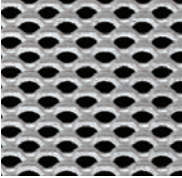
McNICHOLS® Designer Perforated Grille, DIAMOND, Aluminum, Satin Finish, 25% Open Area - Radiator Cover

PLEASE NOTE: Pictures above are not to scale. We value your business and want to ensure a positive ordering experience. Please note that stock items may not be available at each location and on-hand quantities are subject to change. Items that are made-to-order or cut-to-size cannot be returned.

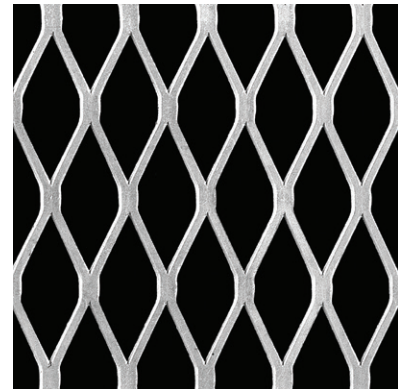
EXPANDED METAL

McNICHOLS has the largest selection of Expanded Metal 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, security enclosures, and more. The openings permit passage of light, air, and sound. Expanded Metal is a great choice for your next project!

PRODUCT SPECIFICATIONS

EXPANDED TYPES	FLATTENED	STANDARD	GRATING	CATWALK	DESIGNER
					
PRIMARY MATERIAL	Aluminum, Carbon Steel, Hot Dipped Galvanized Steel, Stainless Steel	Aluminum, Carbon Steel, Hot Dipped Galvanized Steel, Stainless Steel	Aluminum, Carbon Steel, Hot Dipped Galvanized Steel, Stainless Steel	Carbon Steel	Aluminum, Carbon Steel
STYLE	3/16" to 1-1/2"	3/16" to 2"	3.00# to 6.25#	3.14#, 4.27#	1/16" to 3/16"
GAUGE	Aluminum: 0.050" to 0.125" Steel: 20 to 9	Aluminum: 0.032" to 0.125" Steel: 20 to 6	0.540" to 0.730" (Overall Thickness)	0.460" to 0.655" (Overall Thickness)	Aluminum: 0.051" Steel: 18
% OPEN AREA	35% to 83%	43% to 90%	45% to 77%	58%	38% to 66%
STANDARD SHEET SIZES	36" x 96" 48" x 96" 48" x 120" 60" x 120" 60" x 144" 72" x 120"	36" x 96" 48" x 48" 48" x 96" 48" x 120" 60" x 120" 72" x 96" 72" x 120"	48" x 96" 48" x 120" 72" x 120"	24" x 120" 36" x 120" (Others Available)	48" x 96"

WE ARE READY AND **INSPIRED TO SERVE®** YOU AT 800.237.3820!



HOW TO ORDER/SPECIFY McNICHOLS® EXPANDED METAL

The information provided below is your guide for choosing the right **McNICHOLS® EXPANDED METAL** product for your project. Please specify:

APPLICATION – Expanded Metal use

EXPANDED TYPE – Type of Expanded (Flattened, Standard, Grating, Catwalk), or Designer pattern

PRIMARY MATERIAL – Type of material (Aluminum, Carbon Steel, Galvanized, Stainless Steel)

MATERIAL FINISH – Inventory is typically mill finish unless otherwise specified.

STYLE & TYPE – Short Way of Design (SWD) measurement in inches, material gauge number, or thickness in inches and Expanded type (i.e. 3/4 #9 Flattened); For Grating and Catwalk, Lbs. per Square Foot (i.e. 3.14# Grating)

DESIGN DIRECTION – Long Way of Design (LWD) runs parallel to the length of the sheet for most inventory items.

OPEN AREA – Percentage of open area

QUANTITY/SIZE(S) – Number of sheets and/or sizes (including cut-to-size pieces and shearing preference such as Bond or Random)

SPECIAL – Requirements such as fabrication, edge treatments, finishing, non-standard tolerances, etc.

ACCESSORIES – Angle, Flat Bar, or U-Edging framing solutions or Fasteners



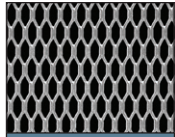
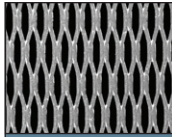
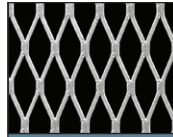
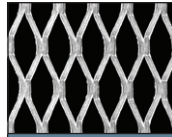
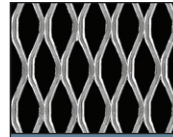
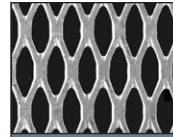
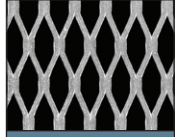
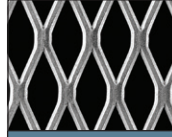
McNICHOLS® Expanded Metal, Flattened - Ceiling Tiles, Nationwide Restaurant Chain



McNICHOLS® Expanded Metal, Standard - Facade, Arizona State University, Scottsdale, AZ

FLATTENED EXPANDED METAL

McNICHOLS® Flattened Expanded Metal is Standard Expanded Metal (page 11) that has been flattened, producing an even surface. This versatile product is perfect for machine guarding, security enclosures, and more!

3/16 #22
Flattened1/4 #20
Flattened1/2 #20
Flattened1/2 #18
Flattened1/2 #16
Flattened1/2 #13
Flattened1/2 #.051
Flattened1/2 #.081
Flattened3/4 #13
Flattened3/4 #9
Flattened1 #16
Flattened1-1/2 #.081
Flattened

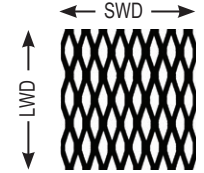
FLATTENED EXPANDED STOCK LIST

STYLE & TYPE	#/SQ. FT.	DESIGN SIZE		OPENING SIZE		STRAND SIZE		OVERALL THICKNESS	MESHES PER FT.		% O/A	STANDARD SHEET SIZE
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH		SWD	LWD		
ALUMINUM, ALLOY TYPE 3003-H14												
1/2 #.051 F	.22#	.500"	1.32"	.312"	1.000"	.050"	.086"	.050"	24	9.8	66%	48" x 96"
1/2 #.081 F	.38#	.500"	1.32"	.312"	1.000"	.060"	.096"	.081"	24	9.6	62%	48" x 96"
3/4 #.051 F	.13#	.923"	2.20"	.750"	1.812"	.045"	.095"	.045"	13	5.9	80%	48" x 96"
3/4 #.081LF	.26#	.923"	2.20"	.687"	1.750"	.072"	.119"	.072"	13	5.9	74%	48" x 96"
3/4 #.081HF	.38#	.923"	2.20"	.687"	1.750"	.099"	.176"	.099"	13	5.8	62%	48" x 96"
3/4 #.125 F	.53#	.923"	2.20"	.625"	1.750"	.113"	.158"	.113"	13	5.8	66%	48" x 96", 48" x 120"
1-1/2 #.081 F	.21#	1.330"	3.30"	1.062"	2.750"	.072"	.136"	.072"	9	3.9	79%	48" x 96"
1-1/2 #.125 F	.40#	1.330"	3.30"	1.000"	2.750"	.099"	.171"	.099"	9	3.9	74%	48" x 96"
CARBON STEEL												
3/16 #22 F	.43#	.200"	.510"	.115"	.300"	.024"	.040"	.024"	60	23	55%	96" x 36"
1/4 #20 F	.62#	.312"	1.00"	.110"	.715"	.031"	.077"	.031"	38.5	12	51%	48" x 96"
1/4 #18 F	.85#	.312"	1.00"	.118"	.715"	.041"	.079"	.041"	38.5	12	49%	48" x 96"
1/2 #20 F	.40#	.500"	1.25"	.375"	1.000"	.031"	.079"	.031"	24	10	68%	48" x 96"
1/2 #18 F	.52#	.500"	1.25"	.312"	1.000"	.041"	.083"	.041"	24	9.5	67%	48" x 96", 48" x 120"
1/2 #16 F	.69#	.500"	1.25"	.312"	1.000"	.051"	.086"	.051"	24	9.5	66%	36" x 96", 48" x 96", 48" x 120"
1/2 #13 F	1.22#	.500"	1.25"	.265"	1.000"	.077"	.100"	.077"	24	9.5	60%	36" x 96", 48" x 96", 60" x 96", 48" x 120", 60" x 120"
3/4 #16 F	.45#	.923"	2.10"	.750"	1.750"	.051"	.102"	.051"	13	5.9	78%	48" x 96", 48" x 120"
3/4 #14 F	.63#	.923"	2.10"	.688"	1.813"	.061"	.105"	.061"	13	5.9	74%	48" x 96", 48" x 120"
3/4 #13 F	.67#	.923"	2.10"	.688"	1.781"	.077"	.100"	.077"	13	5.9	78%	48" x 96", 48" x 120", 60" x 120"
3/4 #9 F 10 GA	1.50#	.923"	2.10"	.563"	1.688"	.115"	.151"	.115"	13	5.9	67%	48" x 96", 48" x 120", 48" x 144", 60" x 120", 72" x 120"
1 #16 F	.41#	1.000"	2.50"	.813"	2.250"	.050"	.098"	.050"	12	4.7	78%	48" x 96"
1-1/2 #16 F	.35#	1.330"	3.20"	1.062"	2.750"	.051"	.110"	.051"	9	3.9	83%	48" x 96"
1-1/2 #13 F	.53#	1.330"	3.20"	1.062"	2.750"	.077"	.110"	.077"	9	3.9	83%	48" x 96"
1-1/2 #9 F 10 GA	1.08#	1.330"	3.20"	1.000"	2.563"	.115"	.151"	.115"	9	3.9	77%	48" x 96", 48" x 120"
HOT DIPPED GALVANIZED STEEL												
1/2 #16 F	--	.500"	1.25"	--	--	--	--	--	24	9.5	--	48" x 96", 48" x 120"
1/2 #13 F	--	.500"	1.25"	--	--	--	--	--	24	9.5	--	48" x 96"
3/4 #16 F	--	.923"	2.10"	--	--	--	--	--	13	5.7	--	48" x 96", 60" x 120"
3/4 #13 F	--	.932"	2.10"	--	--	--	--	--	13	5.7	--	48" x 96"
3/4 #9 F	--	.923"	2.10"	--	--	--	--	--	13	5.7	--	48" x 96", 48" x 120"
STAINLESS STEEL, TYPE 304 AND 316												
1/4 #18 F	.85#	.312"	1.02"	.080"	.660"	.040"	.079"	.040"	38.5	12	49%	48" x 96"
1/2 #18 F	.56#	.480"	1.25"	.312"	1.000"	.040"	.083"	.040"	25	9.5	66%	48" x 96"
1/2 #16 F	.70#	.480"	1.25"	.312"	1.000"	.050"	.083"	.050"	25	9.5	66%	48" x 96"
1/2 #13 F	1.44#	.480"	1.25"	.240"	.915"	.081"	.105"	.081"	25	9.5	56%	48" x 96", 48" x 120"
3/4 #18 F	.46#	.923"	2.08"	.750"	1.812"	.040"	.118"	.040"	13	5.8	75%	48" x 96"
3/4 #16 F	.45#	.923"	2.08"	.750"	1.812"	.050"	.103"	.050"	13	5.8	78%	48" x 96"
3/4 #13 F	.73#	.923"	2.08"	.625"	1.750"	.081"	.101"	.081"	13	5.8	78%	48" x 96"
3/4 #9 F 10 GA	1.68#	.923"	2.08"	.562"	1.697"	.121"	.158"	.121"	13	5.6	66%	48" x 96", 48" x 120"
1-1/2 #16 F	.35#	1.330"	3.12"	1.062"	2.750"	.050"	.114"	.050"	9	3.8	83%	48" x 96"
1-1/2 #13 F	.57#	1.330"	3.12"	1.000"	2.625"	.081"	.114"	.081"	9	3.8	83%	48" x 96"
1-1/2 #9 F 10 GA	1.18#	1.330"	3.12"	.937"	2.625"	.121"	.158"	.121"	9	3.8	76%	48" x 96"

PLEASE NOTE: Standard sheet sizes of **McNICHOLS®** Flattened Expanded Metal include widths of 36", 48", 60", and 72", and lengths of 96", 120", and 144". All standard sizes are available with short lead times if not in inventory.

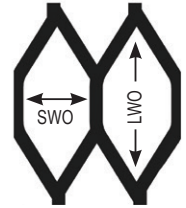
Expanded Dimensions

SWD: Short Way of Design
LWD: Long Way of Design



It is important when ordering to provide the SWD (Short Way of Design) and LWD (Long Way of Design) dimensions. Most stock items have SWD running the width (48" is most common) and LWD running the length of the sheet.

SWO: Short Way of Opening
LWO: Long Way of Opening



Shearing Options



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



Random Sheared SWD
Bond Sheared LWD



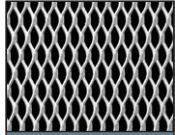
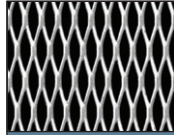
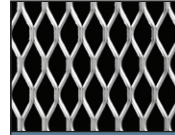
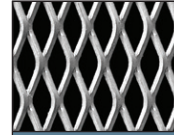
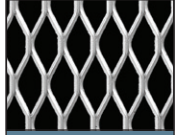
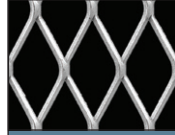
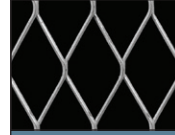
Bond Sheared SWD
Random Sheared LWD



Random Sheared SWD
Random Sheared LWD

STANDARD EXPANDED METAL

McNICHOLS® Standard Expanded Metal, also known as Raised Expanded Metal, has diamond-shaped openings with a slightly raised surface. This product comes in a wide variety of opening sizes, gauges, materials, and sheet sizes making it an ideal solution for many applications!

3/16 #22
Standard1/4 #20
Standard1/2 #20
Standard1/2 #18
Standard1/2 #16
Standard1/2 #13
Standard1/2 #.051
Standard1/2 #.081
Standard3/4 #13
Standard3/4 #9
Standard1 #16
Standard1-1/2 #.081
Standard

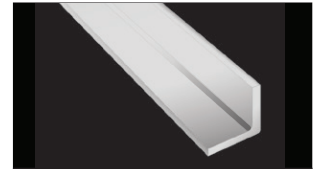
PLEASE NOTE: Pictures above are not to scale.

STANDARD EXPANDED STOCK LIST

STYLE & TYPE	#/SQ. FT.	DESIGN SIZE		OPENING SIZE		STRAND SIZE		OVERALL THICKNESS	MESHES PER FOOT		% O/A	STD. SHEET SIZE
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH		SWD	LWD		
ALUMINUM, ALLOY TYPE 3003-H14												
3/16 #.032 S	.160#	.190"	.500"	.160"	.360"	.032"	.034"	.070"	63	24	66%	48" x 48"
1/2 #.051 S	.220#	.500"	1.200"	.375"	.937"	.050"	.078"	.130"	24	10	69%	48" x 96"
1/2 #.081 S	.400#	.500"	1.200"	.375"	.937"	.080"	.087"	.170"	24	10	65%	48" x 96", 48" x 120"
3/4 #.081L S	.270#	.923"	2.000"	.750"	1.680"	.080"	.108"	.190"	13	6	77%	48" x 96"
3/4 #.081H S	.400#	.923"	2.000"	.750"	1.680"	.080"	.160"	.290"	13	6	65%	48" x 96"
3/4 #.125 S	.560#	.923"	2.000"	.687"	1.680"	.125"	.144"	.260"	13	6	69%	48" x 96"
1-1/2 #.081 S	.210#	1.330"	3.000"	1.187"	2.500"	.080"	.124"	.230"	9	4	81%	48" x 96"
CARBON STEEL												
3/16 #22 S	.450#	.190"	.500"	.140"	.345"	.031"	.034"	.070"	63	24	61%	96" x 36"
1/4 #20 S	.620#	.312"	1.000"	.125"	.718"	.034"	.070"	.130"	38.5	12	55%	48" x 96"
1/4 #18 S	.850#	.312"	1.000"	.110"	.718"	.045"	.072"	.140"	38.5	12	54%	48" x 96"
1/2 #20 S	.400#	.500"	1.200"	.438"	.938"	.034"	.072"	.140"	24	10	71%	48" x 96"
1/2 #18 S	.570#	.500"	1.200"	.438"	.938"	.045"	.078"	.155"	24	10	69%	48" x 96"
1/2 #16 S	.730#	.500"	1.200"	.375"	.938"	.057"	.078"	.165"	24	10	69%	48" x 96"
1/2 #13 S	1.280#	.500"	1.200"	.312"	.938"	.086"	.091"	.185"	24	10	64%	48" x 96"
3/4 #16 S	.470#	.923"	2.000"	.813"	1.750"	.057"	.093"	.180"	13	6	80%	48" x 96"
3/4 #13 S	.690#	.923"	2.000"	.750"	1.688"	.086"	.091"	.185"	13	6	80%	48" x 96"
3/4 #9 S	1.550#	.923"	2.000"	.688"	1.562"	.128"	.137"	.270"	13	6	70%	48" x 120", 72" x 120"
1 #16 S	.440#	1.000"	2.400"	.938"	2.062"	.060"	.087"	.192"	12	5	82%	48" x 96"
1-1/2 #16 S	.350#	1.330"	3.000"	1.250"	2.625"	.057"	.100"	.200"	9	4	85%	48" x 96"
1-1/2 #13 S	.530#	1.330"	3.000"	1.188"	2.500"	.086"	.100"	.220"	9	4	85%	48" x 96"
1-1/2 #9 S	1.080#	1.330"	3.000"	1.110"	2.313"	.128"	.137"	.270"	9	4	79%	48" x 96", 48" x 120"
1-1/2 #6 S	2.300#	1.330"	3.000"	1.125"	2.375"	.193"	.194"	.420"	9	4	71%	48" x 96", 48" x 120"
2 #9 S 10 GA	.810#	1.850"	4.000"	1.563"	3.375"	.128"	.144"	.270"	6.5	3	84%	48" x 96"
HOT DIPPED GALVANIZED STEEL												
3/4 #9 S	--	.923"	2.000"	--	--	--	--	--	--	--	--	72" x 96"
1-1/2 #10 S	--	1.330"	3.000"	--	--	--	--	--	--	--	--	72" x 96"
STAINLESS STEEL, TYPE 304												
1/2 #18 S	.590#	.480"	1.200"	.437"	.937"	.045"	.075"	.140"	25	10	69%	48" x 96"
1/2 #16 S	.720#	.480"	1.200"	.437"	.937"	.055"	.075"	.145"	25	10	69%	48" x 96"
1/2 #13 S	1.490#	.480"	1.200"	.325"	.875"	.090"	.095"	.180"	25	10	60%	48" x 96"
3/4 #16 S	.470#	.923"	2.000"	.812"	1.750"	.055"	.094"	.190"	13	6	80%	48" x 96"
3/4 #13 S	.750#	.923"	2.000"	.750"	1.687"	.090"	.092"	.190"	13	6	80%	48" x 96"
3/4 #9 S 10 GA	1.760#	.923"	2.000"	.687"	1.562"	.134"	.144"	.260"	13	6	69%	48" x 96", 60" x 96"
1-1/2 #13 S	.570#	1.330"	3.000"	1.250"	2.625"	.090"	.100"	.210"	9	4	85%	48" x 96"
1-1/2 #9 S 10 GA	1.210#	1.330"	3.000"	1.125"	2.500"	.134"	.144"	.250"	9	4	78%	48" x 96"

PLEASE NOTE: Standard sheet sizes for McNICHOLS® Standard Expanded Metal include widths of 36", 48", 60", and 72", and lengths of 96", 120", and 144". All standard sizes are available with short lead times if not in inventory.

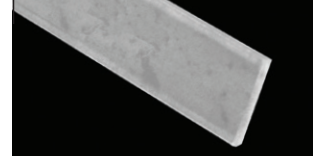
FRAMING



ANGLE

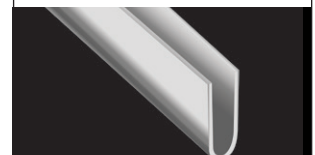
Angle may be used to frame Expanded Metal when the product is welded to one flange of the Angle.

MATL	SIZE	GAUGE
Steel	2" x 2" x 1/4"	.250"
Steel	1-3/4" x 1-3/4" x 1/4"	.250"
Steel	1-1/4" x 1-1/4" x 1/8"	.125"
Steel	1-1/4" x 1-1/4" x 1/4"	.250"
Steel	1" x 1" x 1/8"	.125"



FLAT BAR

Typically the Expanded Metal product is welded to the Flat Bar frame. Details available at **800.237.3820**.



U-EDGING

U-Edging is a U-shaped strip that attaches to the edge of the Expanded Metal sheet by a press-fit or weld.

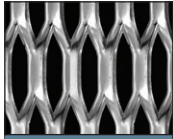
TYPE	MATL	GAUGE	OPEN	SIZE
401	Steel, Alum.	14 11	1/4"	1" x 120" 1-1/2" x 120" 3/4" x 144" 1" x 144"
402	Steel, Alum.	14 11	1/8"	1" x 120" 1" x 144"
403	Steel, Alum.	14 11	1/16"	1" x 144"
438	Steel	14 11	3/8"	1" x 120"
450	Alum.	14 11	1/2"	1" x 120"

FASTENERS



Pre-Galvanized Steel Fasteners may be used to attach Expanded Metal to drywall applications where required. Hardware available separately.

EXPANDED METAL GRATING & CATWALK



GRATING



CATWALK

McNICHOLS® Expanded Metal Grating and Catwalk are economical solutions for ramps, flooring, catwalks, platforms, walkways, treads, or other types of lightweight structural applications. Expanded Metal Catwalk is structurally stronger than Standard Expanded Grating because the long way of the design runs across a shorter span.

EXPANDED GRATING & CATWALK STOCK LIST

STYLE & TYPE	#/SQ. FT.	DESIGN SIZE		OPENING SIZE		STRAND SIZE		OVERALL THICKNESS	MESHES/SQ. FT.		% O/A	STANDARD SHEET SIZE
		SWD	LWD	SWO	LWO	THICK.	WIDTH		SWD	LWD		
ALUMINUM, ALLOY TYPE 5052-H32												
2.00# GTG	2.00#	1.33"	5.33"	.940"	3.44"	.250"	.387"	.730"	9.00	2.25	48%	48" x 96"
CARBON STEEL												
3.00# GTG	3.00#	1.33"	5.33"	.940"	3.44"	.183"	.264"	.540"	9.00	2.25	60%	48" x 96"
3.14# GTG	3.14#	2.00"	6.00"	1.625"	4.88"	.250"	.312"	.656"	6.00	2.00	69%	48" x 96", 48" x 120", 72" x 120"
4.00# GTG	4.00#	1.33"	5.33"	.940"	3.44"	.215"	.300"	.618"	9.00	2.25	55%	48" x 96", 48" x 120"
4.27# CAT	4.27#	1.41"	4.00"	1.000"	2.88"	.250"	.300"	.625"	8.50	3.00	58%	120" x 36"
4.27# GTG	4.27#	1.41"	4.00"	1.000"	2.88"	.250"	.300"	.625"	8.50	3.00	58%	48" x 96", 48" x 120"
5.00# GTG	5.00#	1.33"	5.33"	.813"	3.38"	.250"	.331"	.655"	9.00	2.25	50%	48" x 96"
6.25# GTG	6.25#	1.41"	5.33"	.813"	3.38"	.312"	.350"	.715"	8.50	2.25	50%	48" x 96"
STAINLESS STEEL, TYPE 304												
4.50# GTG	4.50#	1.41"	4.00"	1.00"	2.88"	.250"	.300"	.625"	8.50	3.00	58%	48" x 120"

PLEASE NOTE: All styles of **McNICHOLS®** Expanded Grating are available in Catwalk format. Standard widths are 24", 36", and 48", and standard lengths are 96", 120", and 144". The long way of the diamond runs parallel to the width for Catwalk.



McNICHOLS® Expanded Metal Grating - Facade, Retail Store, Indianapolis, IN

SELECTION CHART: EXPANDED STEEL GRATING & CATWALK

LBS. PER LINEAR FT.	CLEAR SPAN							
	23"	30"	35"	42"	47"	54"	60"	
50	3.00	3.00	3.00	3.00	3.00	4.00	5.00	
	3.14	3.14	3.14	3.14	3.14	4.27	6.25	
100	3.00	3.00	3.00	4.00	5.00			
	3.14	3.14	3.14	4.27	6.25			
150	3.00	4.00	4.00	5.00	6.25			
	3.14	4.27	4.27	6.25				
200	3.00	4.00	4.27	6.25				
	3.14	4.27	5.00					
250	4.00	5.00	5.00					
	4.27	--	6.25					
300	4.00	5.00	6.25					
	4.27	6.25						
350	4.00	6.25						
	4.27							

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

PLEASE NOTE: The Concentrated Load deflection for this selection chart does not exceed the 1/4" maximum deflection, and the generally accepted recommendation for normal pedestrian comfort.



McNICHOLS® Expanded Metal, Grating - Cell Tower Platform

LOAD TABLE: CATWALK FIXED SPAN

STYLE	MATL	LOAD	24"	36"	48"
2.00#	Aluminum	C	250	100	50
		D	.250	.250	.250
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
4.50#	Stainless	C	300	150	100
		D	.217	.192	.212

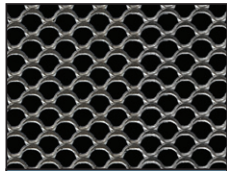
U - Uniform Load - Lbs./Square Foot

D - Deflection - in Inches

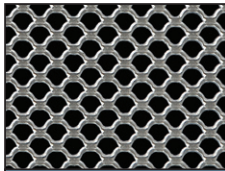
C - Concentrated Load - Lbs./Square Foot of Width at Mid Span

DESIGNER EXPANDED METAL

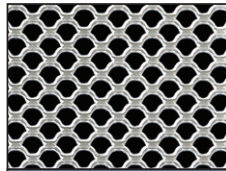
McNICHOLS® Designer Expanded Metal may be used for security partitions, sign panels, sunshades, room panels, cabinet inserts, and more. While enhancing appearance, the patterns can provide security and control light, heat, and airflow.



LANCET™, 3/16 #18, 63% O/A



LANCET™, 1/16 #18, 44% O/A

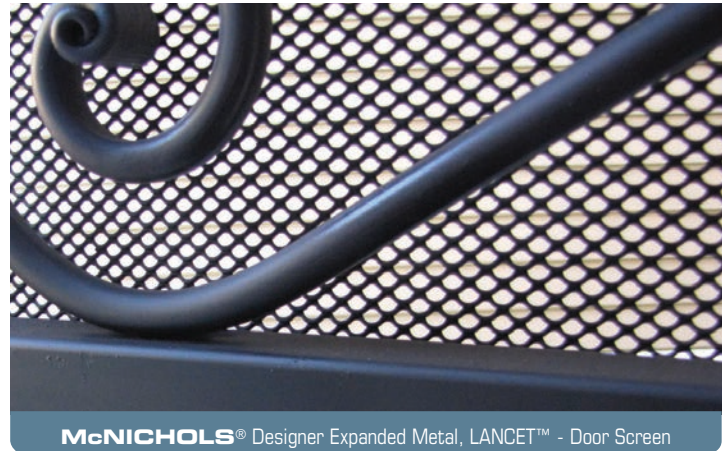


LANCET™, 3/16 #.051, 60% O/A

DESIGNER EXPANDED STOCK LIST

STYLE & TYPE	MATERIAL	GAUGE	% O/A	STANDARD SHEET SIZE
LANCET™ 1/16 #18, F	Carbon Steel	18	44%	48" x 96"
LANCET™ 3/16 #18, F and S	Carbon Steel	18	(F) 63% (S) 66%	48" x 96"
LANCET™ 3/16 #.051, F	Aluminum	.051	60%	48" x 96"

PLEASE NOTE: F - Flattened; S - Standard


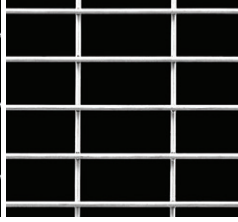
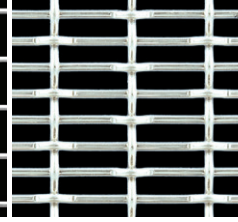



McNICHOLS® Designer Expanded Metal, LANCET™ - Door Screen

WIRE MESH

McNICHOLS has the largest selection of Wire Mesh in North America, stocked in various opening and mesh sizes, thicknesses and materials. Used as screens, partitions, and facades on parking garages and other buildings and structures, Wire Mesh is amazingly versatile and can be easily adapted to almost any application.

PRODUCT SPECIFICATIONS

MESH TYPES				
				
	SQUARE	RECTANGULAR	DESIGNER	ECO-MESH®
CONSTRUCTION TYPE	Square Opening: Woven, Welded, Square Mesh: Woven, Welded, Hardware & Industrial, VINYL MESH™	Rectangular: Woven (Insect Screen), Welded	Many Styles Available	ECO-MESH® Modular Facade & Trellis System, ECO-ROCK® Gabion Wall System
PRIMARY MATERIAL	Aluminum, Brass, Carbon Steel, Copper, Galvanized and Stainless Steel, Galvanized-PVC Coated	Aluminum, Carbon, Galvanized and Stainless Steel	Aluminum, Bronze, Carbon Steel, Copper, Stainless Steel	Galvannealed, Aluminum, Carbon and Stainless Steel; 13 Powder Coated Colors Available
OPENING SIZE / MESH SIZE	Opening: 1/4" to 4" Mesh: 4" to 325 Woven, 1 to 6" Welded Har. & Ind.: 1 to 4 Mesh VINYL MESH™: 1" to 2" Mesh	1/2" x 1", 2" x 1", 3" x 1-1/2"	0.838" to 3.890"	2" x 2" Square Mesh (Stock), (Special Order Available)
WIRE DIAMETER	0.0045" to 0.375"	0.063" to 0.120" 0.009", 0.011" (Insect Screen)	0.035" to 0.192"	0.135" (0.120", 0.148" by Special Order)
% OPEN AREA	25% to 94%	66% to 93%	0% to 85%	82% (Stock), (Special Order Available)
STANDARD SIZES	Sheet: 36" x 96", 48" x 96", 48" x 120", 48" x 144", 60" x 120", 72" x 120", 72" x 144" Coil: 24", 36", 48", 60", 72" x 1200"; 36", 48" x 600"	36" x 96" 48" x 96"	Varies with Pattern	48" x 96" (Stock), (Special Order Available)

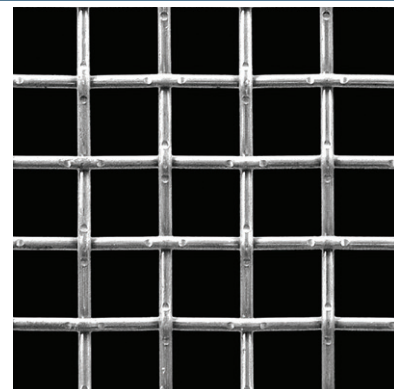
WE ARE READY AND **INSPIRED TO SERVE®** YOU AT 800.237.3820!



McNICHOLS® Wire Mesh, 2' x 4' Rectangular Mesh - Railing Infill Panels, Target Field - Twins Stadium, Minneapolis, MN



McNICHOLS® Designer Wire Mesh, AURA™ 8155 - Building Facade/Signage, Law Office, Ottawa, ON



HOW TO ORDER/SPECIFY McNICHOLS® WIRE MESH

The information provided below is your guide for choosing the right **McNICHOLS® WIRE MESH** product for your project. Please specify:

APPLICATION – Wire Mesh use

MESH TYPE – Type of opening (Square or Rectangular) or Designer pattern

CONSTRUCTION TYPE – Type of construction (Woven or Welded)

PRIMARY MATERIAL – Type of material (Aluminum, Bronze, Carbon Steel, Copper, Galvanized Steel, Stainless Steel)

MATERIAL FINISH – Inventory is typically mill finish unless otherwise specified

WEAVE / TRIM TYPE – Woven with type of weave (i.e. Carbon, Lockcrimp, Intercrimp), Welded (Trimmed or Untrimmed) or Designer Mesh pattern number (e.g. TECHNAs™ 3155)

OPENING SIZE – Measured as the clear space between wires. For Rectangular opening, width and length measurements are required

MESH SIZE – Measured by the number of openings per lineal inch from the center of the wires

WIRE DIAMETER – Thickness (measured in decimals) or gauge equivalent (*Wire Diameters and Gauge Equivalents* chart on page 18 has additional information)

OPEN AREA – Percentage of open area

QUANTITY/SIZE(S) – Number of coils and/or sheets (including cut-to-size pieces and stub preference)

SPECIAL – Requirements such as fabrication, edge treatments, finishing, non-standard tolerances, etc.

ACCESSORIES – Angle, Flat Bar or U-Edging framing solutions

SQUARE OPENING WIRE MESH

McNICHOLS® Square Opening Wire Mesh is known for its easy handling and solid construction. In either Woven or Welded, it can be used for both internal and external applications and is commonly used as screens, partitions, and facades on parking garages and other structures. Interior uses include cabinet inserts and partition screens in any functional space (commercial or residential).

SQUARE OPENING - WOVEN

McNICHOLS® Square Opening Woven Wire Mesh is the most popular mesh **McNICHOLS** offers. A series of wires are woven together resulting in a weave type. The most common types are listed below.



1/4" Square Opg.
Plain



5/8" Square Opg.
Lockcrimp



1" Square Opg.
Intercrimp

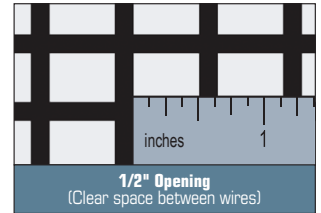


2" Square Opg.
Lockcrimp



4" Square Opg.
Lockcrimp

How To Measure Square Opening



The opening is measured from the inside edge of one wire to the inside edge of the adjacent wire.

SQUARE OPENING - WOVEN STOCK LIST

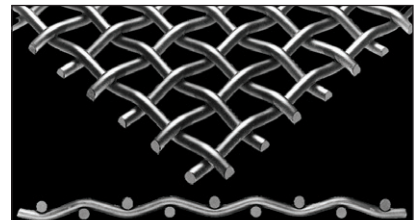
OPENING	DIAMETER
ALUMINUM	
4" Opening	.250
2" Opening	.250
1-1/2" Opening	.120, .250
1" Opening	.120
CARBON STEEL	
4" Opening	.250
3" Opening	.250
2" Opening	.120, .135, .162, .192, .250, .375
1-3/4" Opening	.250
1-1/2" Opening	.120, .135, .192, .250
1" Opening	.120, .135, .192, .250
3/4" Opening	.120, .250
5/8" Opening	.120
1/2" Opening	.120, .250

OPENING	DIAMETER
GALVANIZED STEEL	
4" Opening	.250
2" Opening	.250
1" Opening	.120
STAINLESS STEEL, TYPE 304	
4" Opening	.250
2" Opening	.120, .192, .250
1-1/2" Opening	.120
1" Opening	.120
1/2" Opening	.063, .092, .120
3/8" Opening	.063
1/4" Opening	.120

Please specify **McNICHOLS** on your next project.

Thank You!

WEAVE TYPES



PLAIN WEAVE



LOCKCRIMP WEAVE



INTERCRIMP WEAVE

SQUARE OPENING - WELDED

McNICHOLS® Square Opening Welded Wire Mesh typically has larger openings than Woven Wire Mesh. Wire strands are welded at each intersection yielding an overall stronger construction.



1" Square Opg.
Welded



1-1/2" Square Opg.
Welded



2" Square Opg.
Welded



3" Square Opg.
Welded



4" Square Opg.
Welded

SQUARE OPENING - WELDED STOCK LIST

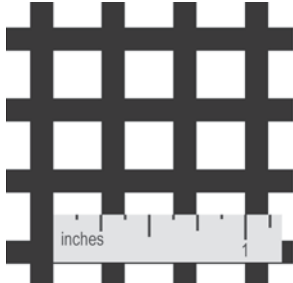
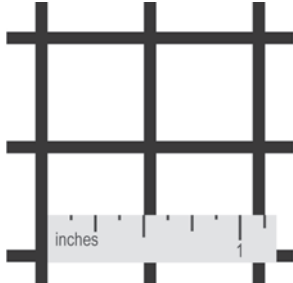
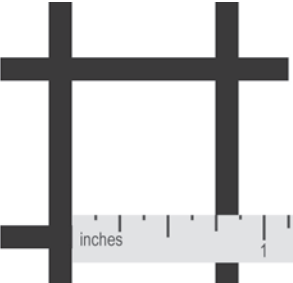
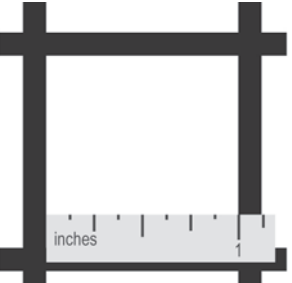
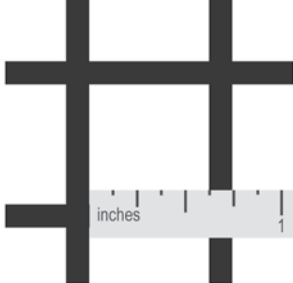
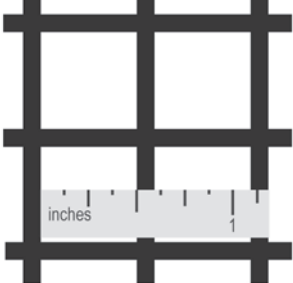

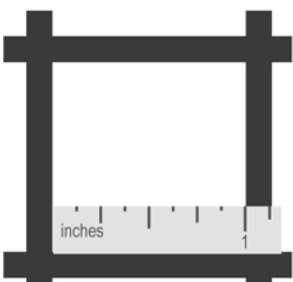
OPENING	DIAMETER
CARBON STEEL	
3" Opening	.250
2" Opening	.250
STAINLESS STEEL, TYPE 304	
4" Opening	.250
3" Opening	.250
2" Opening	.188 (.120 in Stainless Steel, Type 316)
1-1/2" Opening	.250
1" Opening	.120


PLEASE NOTE: Pictures above are not to scale. For actual scale diagrams, please see page 15.



McNICHOLS® Wire Mesh, Welded, 2" Square Opening - Infill Panels, High School Stadium, Chalmette, LA

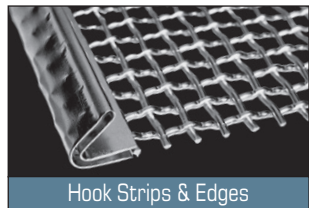
SQUARE OPENING SIZES TO SCALE

1/4" SQUARE OPENING	1/2" SQUARE OPENING	3/4" SQUARE OPENING	1" SQUARE OPENING
			
1/4" Opg., .120" Wire Dia., 40% O/A	1/2" Opg., .063" Wire Dia., 79% O/A	3/4" Opg., .120" Wire Dia., 74% O/A	1" Opg., .120" Wire Dia., 77% O/A
			
5/8" Opg., .120" Wire Dia., 70% O/A	1 1/2" Opg., .092" Wire Dia., 71% O/A		
			
3/4" Opg., .250" Wire Dia., 56% O/A	1" Opg., .135" Wire Dia., 78% O/A		

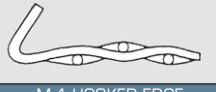





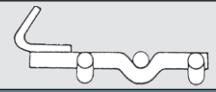
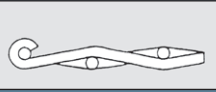
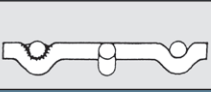


McNICHOLS® Wire Mesh, Welded, 2" Square Opening - Infill Panels, Middle School Stadium, Poydras, LA

HOOK STRIPS & EDGES



McNICHOLS® Hook Strips and Edges add a finishing touch by creating a clean look with a hook or edge on any Wire Mesh project. Typically, these products are used as shaker screens or to mount Wire Mesh to equipment as guards.

HOOK STRIPS & EDGES		
		
M-1 HOOKED EDGE WITHOUT REINFORCING	M-2 REGULAR HOOK STRIP	M-3 TWO-PIECE HOOK STRIP
		
M-3-C TWO-PIECE HOOK STRIP WITH CANVAS INSERT	M-4 BONDED PLATE WELDED INSERT	M-5 SQUARE WITH INSERTS
		
M-6 BENT PLATE WELDED ON EDGE	M-7 KNUCKLED EDGE	M-8 WELDED EDGE WIRE

HOOK STRIP/EDGE	WIRE DIA. OPTIONS
M-1, M-4, M-6	.312" Dia. and heavier
M-2, M-5	.063" to .250" Dia.
M-3, M-3-C	.054" Dia. and lighter
M-7	.192" Dia. and heavier
M-8	.148" Dia. and heavier

PLEASE NOTE: Screens for sizing and straining can be furnished with any style of edge preparation or Hook Strip, ready for installation into many equipment types.

Hooks are furnished Galvanized unless otherwise specified.

How to Specify Hook Strips & Edges

- Select Hook Strip and Edge style
- Determine length of Hook Strip if not the same as wire screen length and specify required notching
- Standard degree of Hook bend is 135 degrees outside and 45 degrees inside
- Hook height is measured from top of Hook to inside of bend

SQUARE OPENING OPTIONS CHART

DIA. % O/A #/SF			DIA. % O/A #/SF			DIA. % O/A #/SF			DIA. % O/A #/SF			DIA. % O/A #/SF			DIA. % O/A #/SF			DIA. % O/A #/SF			DIA. % O/A #/SF		
4" SQ. OPENING			7/16	74.4	3.88	5/8	54.3	10.88	.135	81.5	.85	.283	52.7	5.15	.120	65.0	1.51	.148	39.4	3.76	.135	42.2	3.21
1	64.0	13.06	3/8	77.4	2.90	1/2	60.5	7.29	.120	83.2	.68	.263	54.8	4.52	.105	68.3	1.18	.135	45.6	2.62	.120	65.0	1.51
3/4	70.9	7.66	5/16	80.6	2.05	7/16	64.0	5.71	.105	85.1	.52	.250	56.3	4.12	.092	71.3	.93	.135	49.6	2.07	.092	71.3	.93
5/8	74.8	5.46	.283	82.2	1.70	3/8	67.8	4.30	3/4	36.0	20.68	.225	59.2	3.41	.080	74.3	.71	.105	53.4	1.64	.080	74.3	.71
1/2	79.0	3.58	.263	83.3	1.48	5/16	71.9	3.07	5/8	41.3	15.17	.207	61.4	2.93	.072	76.4	.58	.092	57.4	1.28	.072	76.4	.58
7/16	81.3	2.77	.250	84.0	1.34	.283	74.1	2.55	1/2	47.9	10.30	.192	63.4	2.56	.063	78.9	.45	.080	57.4	1.28	.063	78.9	.45
3/8	83.6	2.07	.225	85.4	1.09	.263	75.6	2.22	7/16	51.8	8.14	.177	65.5	2.20	1/2" SQ. OPENING			.072	60.3	1.06	.072	60.3	1.06
5/16	86.0	1.45	.207	86.5	.93	.250	76.6	2.02	3/8	55.0	6.19	.162	67.6	1.87	3/8	29.0	12.20	.063	63.8	.83	3/8	29.0	12.20
.283	87.2	1.20	.192	87.4	.80	.225	78.5	1.65	5/16	61.0	4.45	.148	69.8	1.58	5/16	34.0	9.03	.054	67.6	.62	5/16	34.0	9.03
.263	88.0	1.04	.177	88.3	.69	.207	80.0	1.41	.283	63.8	3.71	.135	71.8	1.33	.283	36.9	7.64	.047	70.9	.48	.283	36.9	7.64
.250	88.6	.94	.162	89.2	.58	.192	81.2	1.22	.263	65.7	3.25	.120	74.3	1.07	.263	39.0	6.75	3/16" SQ. OPENING			.263	39.0	6.75
3-3/4" SQ. OPENING			.148	90.0	.48	.177	82.5	1.04	.250	67.0	2.96	.105	76.9	.83	.250	40.5	6.19	.177	26.5	6.12	.177	26.5	6.12
1	62.3	13.77	2-1/2" SQ. OPENING			.162	83.8	.88	.225	69.6	2.43	.092	79.3	.65	.225	43.6	5.16	.162	28.8	5.30	.225	43.6	5.16
3/4	69.4	8.11	1	51.0	19.02	.148	85.0	.74	.207	71.3	2.08	.080	81.7	.50	.207	46.0	4.47	.148	31.3	4.57	.207	46.0	4.47
5/8	73.5	5.77	3/4	59.2	11.37	.135	86.2	.62	.192	73.0	1.81	3/4" SQ. OPENING			.192	48.3	3.92	.135	33.8	3.92	.192	48.3	3.92
1/2	77.9	3.79	5/8	64.0	8.16	.120	87.6	.49	.177	74.7	1.55	1/2	30.9	15.57	.177	50.7	3.40	.120	37.2	3.22	.177	50.7	3.40
7/16	80.2	2.94	1/2	69.4	5.41	1-1/2" SQ. OPENING			.162	76.4	1.32	7/16	34.6	12.47	.162	53.2	2.90	.105	41.1	2.56	.162	53.2	2.90
3/8	82.6	2.19	7/16	72.4	4.22	1	36.0	27.57	.148	78.1	1.11	3/8	39.1	9.61	.148	55.8	2.47	.092	45.1	2.04	.148	55.8	2.47
5/16	85.2	1.54	3/8	75.6	3.16	3/4	44.4	16.86	.135	79.7	.93	5/16	44.4	7.03	7/16" SQ. OPENING			.080	49.1	1.60	.080	49.1	1.60
.283	86.5	1.27	5/16	79.0	2.24	5/8	49.8	12.27	.120	81.7	.74	.283	47.4	5.91	.135	58.4	2.09	.072	52.2	1.33	.135	58.4	2.09
.263	87.3	1.11	.283	80.7	1.85	1/2	56.3	8.25	.105	83.7	.58	.263	49.5	5.20	.120	61.5	1.69	.063	56.0	1.05	.120	61.5	1.69
.250	87.9	1.00	.263	81.9	1.61	7/16	59.9	6.48	.092	85.5	.45	.250	51.0	4.76	.105	65.0	1.33	.054	60.3	.79	.105	65.0	1.33
3-1/2" SQ. OPENING			.250	82.6	1.46	3/8	64.0	4.90	1-1/8" SQ. OPENING			.225	54.0	3.94	.092	68.3	1.04	.047	63.9	.62	.092	68.3	1.04
1	60.5	14.57	.225	84.2	1.19	5/16	68.5	3.50	3/4	32.6	22.38	.207	56.4	3.40	.080	71.5	.80	.041	67.3	.48	.207	56.4	3.40
3/4	67.8	8.60	.207	85.3	1.02	.283	70.8	2.91	5/8	37.9	16.49	.192	58.5	2.97	.072	73.7	.66	5/32" SQ. OPENING			.120	32.2	3.64
5/8	72.0	6.13	.192	86.2	.88	.263	72.4	2.54	1/2	44.4	11.25	.177	60.7	2.56	.063	76.4	.51	.105	36.9	2.95	.105	36.9	2.95
1/2	76.6	4.03	.177	87.2	.75	.250	73.4	2.31	7/16	48.4	8.91	.162	63.1	2.18	.080	74.3	.71	.092	39.9	2.36	.092	39.9	2.36
7/16	79.0	3.13	.162	88.2	.63	.225	75.6	1.89	3/8	52.9	6.79	.148	65.4	1.85	.283	32.5	8.48	.080	43.5	1.86	.283	32.5	8.48
3/8	81.6	2.33	.148	89.1	.53	.207	77.2	1.62	5/16	58.0	4.90	.135	67.6	1.56	.263	34.5	7.51	.072	48.1	1.56	.263	34.5	7.51
5/16	84.3	1.65	2-1/4" SQ. OPENING			.192	78.6	1.40	1" SQ. OPENING			.263	62.7	3.58	.250	36.0	6.89	.054	51.2	1.23	.250	36.0	6.89
.283	85.6	1.36	1	47.9	20.61	.177	80.0	1.20	.263	66.6	2.69	.207	68.6	2.31	.225	39.0	5.77	.047	58.5	.73	.225	39.0	5.77
.263	86.5	1.18	3/4	56.2	12.37	.162	81.5	1.02	.250	64.0	3.26	.192	70.4	2.01	.072	41.5	5.00	.041	63.2	.55	.072	41.5	5.00
.250	87.1	1.07	5/8	61.2	8.90	.148	82.8	.85	.225	66.6	2.69	.080	78.6	.58	.192	43.8	4.39	1/8" SQ. OPENING			.120	26.0	4.19
.225	88.3	.87	1/2	66.9	5.91	.135	84.2	.72	.207	68.6	2.31	.177	72.2	1.72	.063	49.8	4.39	.105	29.5	3.37	.105	29.5	3.37
.207	89.1	.74	7/16	70.1	4.62	.120	85.7	.57	.192	70.4	2.01	.162	74.0	1.46	.080	49.8	4.39	.092	33.4	2.71	.092	33.4	2.71
3-1/4" SQ. OPENING			3/8	73.4	3.46	1-3/8" SQ. OPENING			.177	72.2	1.72	.148	75.9	1.23	5/16	41.3	7.64	.120	37.2	2.15	.120	37.2	2.15
1	58.5	15.47	5/16	77.1	2.46	3/4	41.9	17.97	.162	74.0	1.46	.135	77.6	1.04	.283	44.2	6.44	.080	44.2	1.43	.283	44.2	6.44
3/4	66.0	9.16	.283	78.9	2.04	5/8	47.3	13.10	.148	75.9	1.23	.263	46.4	5.67	.250	47.9	5.19	.054	48.7	1.09	.250	47.9	5.19
5/8	70.3	6.54	.263	80.2	1.77	1/2	53.8	8.83	.135	77.6	1.04	.225	50.7	4.31	.207	53.4	3.72	.047	52.8	.85	.207	53.4	3.72
1/2	75.0	4.31	.250	81.0	1.61	7/16	57.5	6.95	.120	79.7	.83	.207	53.4	3.72	.063	49.8	4.39	.035	61.0	.50	.063	49.8	4.39
7/16	77.6	3.35	.225	82.6	1.31	3/8	61.6	5.26	.105	81.9	.64	.080	85.7	.38	5/8" SQ. OPENING			3/32" SQ. OPENING			.092	24.5	3.10
3/8	80.4	2.50	.207	83.9	1.12	5/16	66.5	3.77	.092	83.9	.50	.192	72.2	1.72	7/16	31.6	13.45	.105	29.5	3.37	.105	29.5	3.37
5/16	83.2	1.76	.192	84.9	.97	.283	68.8	3.14	.177	72.2	1.72	.162	74.0	1.46	.135	36.0	10.40	.092	33.4	2.71	.092	33.4	2.71
.283	84.6	1.46	.177	85.9	.83	.263	70.5	2.74	.148	75.9	1.23	.120	79.7	.83	.283	44.2	6.44	.120	37.2	2.15	.120	37.2	2.15
.263	85.6	1.26	.162	87.0	.70	.250	71.5	2.49	.135	77.6	1.04	.263	46.4	5.67	.250	47.9	5.19	.080	44.2	1.43	.250	47.9	5.19
.250	86.2	1.15	.148	88.0	.59	.225	73.9	2.04	.120	79.7	.83	.225	50.7	4.31	.207	53.4	3.72	.054	48.7	1.09	.207	53.4	3.72
.225	87.5	.93	.135	89.0	.49	.207	75.6	1.75	.105	81.9	.64	.080	85.7	.38	5/8" SQ. OPENING			3/32" SQ. OPENING			.047	52.8	.85
.207	88.4	.79	2" SQ. OPENING			.192	77.0	1.52	1" SQ. OPENING			.177	72.2	1.72	.162	74.0	1.46	.035	61.0	.50	.047	52.8	.85
3" SQ. OPENING			1	44.4	22.49	.177	78.5	1.30	1" SQ. OPENING			.162	74.0	1.46	.148	75.9	1.23	.054	61.0	.50	.035	61.0	.50
1	56.3	16.50	3/4	52.9	13.57	.162	80.0	1.10	1" SQ. OPENING			.148	75.9	1.23	.135	65.0	1.72	5/16" SQ. OPENING			.092	24.5	3.10
3/4	64.0	9.79	5/8	58.0	9.79	.148	81.5	.92	.283	57.1	4.55	.135	65.0	1.72	.120	67.9	1.38	.250	29.5	3.10	.250	29.5	3.10
5/8	68.5	7.00	1/2	64.0	5.53	.135	82.9	.78	.263	59.1	3.99	.120	67.9	1.38	.105	71.0	1.08	.225	33.8	2.18	.225	33.8	2.18
1/2	73.5	4.62	7/16	67.3	5.11	.120	84.6	.62	.250	60.5	3.64	.105	71.0	1.08	.092	73.8	.85	.192	32.5	2.18	.192	32.5	2.18
7/16	76.2	3.59	3/8	70.9	3.84	.105	85.5	.45	.225	63.3	3.01	.092	73.8	.85	.080	76.6	.65	.177	35.0	1.66	.177	35.0	1.66
3/8	79.0	2.68	5/16	74.8	2.73	.080	87.9	.37	.207	65.3	2.58	.072	78.5	.53	.072	78.5	.53	.162	43.4	3.74	.162	43.4	3.74
5/16	82.0	1.90	.283	76.7	2.26	.063	80.9	.41	.192	67.2	2.25	.063	80.9	.41	.080	76.6	.65	.148	46.0	3.20	.148	46.0	3.20
.283	83.5	1.57	.263	78.1	1.97	1-1/4" SQ. OPENING			.177	69.2	1.93	.120	74.3	1.07	.072	78.5	.53	.135	48.8	2.72	.135	48.8	2.72
.263	84.5	1.36	.250	79.0	1.79	3/4	39.1	19.22	.162	71.2	1.64	7/16	28.4	14.42	.063	80.9	.41	.120	52.2	2.21	.120	52.2	2.21
.250	85.2	1.23	.225	80.8	1.46	5/8	44.4	14.06	.148	73.5	1.38	3/8	32.7	11.19	.105	71.0	1.08	.105	56.0	1.74	.105	56.0	1.74
.225	86.5	1.01	.207	82.1	1.25	5/16	64.0	4.08	.135	75.1	1.17	5/16											

PLEASE NOTE: Tables list from 4" to 1/16" square openings. Larger openings up to 8" are available by special order. For information on less than 1/16" openings, we are available to assist you at **800.237.3820**.

SQUARE MESH WIRE MESH

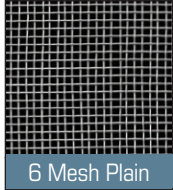
McNICHOLS® Square Mesh Wire Mesh is available in a wide range of meshes, weaves, and mesh sizes. Square Mesh is often used in applications such as infill panels, fan guards, enclosures, fencing, filtration, and more!

SQUARE MESH - WOVEN

Square Mesh Woven Mesh is a flexible product depending on the gauge and weave type. It is available in a wide range of meshes, weaves and material types.



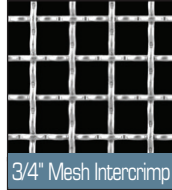
8 Mesh Plain



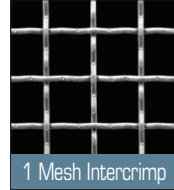
6 Mesh Plain



2 Mesh Lockcrimp

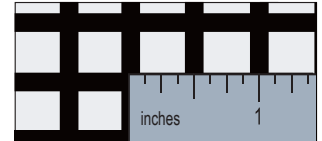


3/4" Mesh Intercrip



1 Mesh Intercrip

How To Measure Square Mesh



2 Mesh (2 holes per linear inch)

The number of openings per linear inch is determined by measuring from the center of wire to the center of wire.

SQUARE MESH - WOVEN STOCK LIST

MESH	DIAMETER
ALUMINUM, ALLOY	
1	.120
2	.063
4	.047, .063
8	.028
BRASS	
8	.028
16	.018
CARBON STEEL	
1	.120
2	.063, .080, .120, .135
3	.063, .105
3-1/2	.063
4	.047, .080
6	.035, .047, .063
8	.028, .032, .047, .063
10	.025
12	.023, .028

MESH	DIAMETER
CARBON STEEL (CONT.)	
14	.020
16	.018
60	.0075
COPPER	
2	.063
4	.047
8	.028
10	.025
16	.011
40	.010
100	.0045
GALVANIZED STEEL	
8	.017
STAINLESS STEEL, TYPE 304 & 316	
3/4"	.063, .105
1	.080

MESH	DIAMETER	TYPE
STAINLESS STEEL (CONT.)		
1	.063, .120	304
2	.047, .063, .120	Both
2	.080, .105, .135	304
3	.047, .063, .080	304
3-1/2	.054	304
4	.047, .063	Both
4	.028, .032, .035, .080, .120	304
5	.041	304
6	.035	Both
6	.047, .063	304
8	.017, .025, .032, .047, .063	304
10	.028	316
10	.025, .035, .047	304
12	.018, .023, .028, .035	304
14	.020	304
16	.018	Both
16	.009, .028	304
18	.009, .017	304

MESH	DIAMETER	TYPE
STAINLESS STEEL (CONT.)		
20	.016	Both
20	.014, .018, .023	304
24	.014	304
30	.012	Both
40	.010	Both
50	.009	304
60	.0075	304
80	.0055	304
84	.0035	316
100	.0045	Both
105	.003	316
150	.0026	304
200	.0016	316
200	.0021	304
325	.0014	Both

Please specify **McNICHOLS** on your next project.

SQUARE MESH - WELDED

McNICHOLS® Square Mesh Welded Wire Mesh typically has larger openings than Woven Wire Mesh. Welded Wire Mesh is capable of maintaining its shape when stressed.



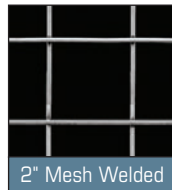
4 Mesh Welded



1 Mesh Welded



1-1/2" Mesh Welded



2" Mesh Welded



3" Mesh Welded

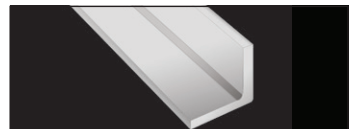
SQUARE MESH - WELDED STOCK LIST

MESH	DIAMETER
CARBON STEEL	
1	.105, .120, .135
1-1/2"	.135
2"	.097, .135, .156, .160, .185
3"	.135, .192
4"	.225, .250
6"	.187

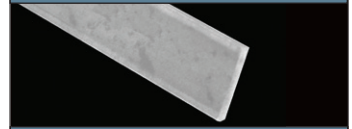
MESH	DIAMETER
GALVANIZED STEEL	
1	.063, .080, .118, .120
2	.063
4	.025
2"	.118, .135, .159, .160, .187, .188, .192
3"	.135, .188, .192
4"	.148

MESH	DIAMETER	TYPE
STAINLESS STEEL, TYPE 304 & 316		
1	.080, .120	Both
1	.063	304
2	.047	Both
2	.063	304
3	.047	304
4	.032	304
2"	.120, .188	304
3"	.188	304

FRAMING



ANGLE



FLAT BAR



U-EDGING

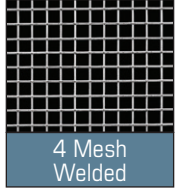
For details on Wire Mesh framing options, please refer to page 7 and 11 or we are happy to assist you at **800.237.3820**.

PLEASE NOTE: Pictures above are not to scale. For actual scale diagrams, please see pages 19-20.



HARDWARE & INDUSTRIAL WIRE MESH

McNICHOLS® Hardware and Industrial Wire Mesh, made from a Galvanized wire available in woven and welded construction, is widely used in the farming industry and can be used in many other applications due to its corrosion resistance and lightweight characteristics.



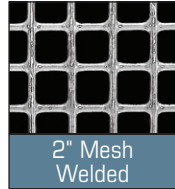
4 Mesh
Welded

HARDWARE & INDUSTRIAL STOCK LIST

MESH	OPENING	DIAMETER	WIDTH	% O/A
1 Square - Welded	0.937" x 0.937"	.063	48"	87.8%
1 Square - Welded	0.920" x 0.920"	.080	48"	84.6%
2 Square - Welded	0.459" x 0.459"	.041	36", 48", 60"	84.3%
2 Square - Welded	0.437" x 0.437"	.063	36", 48"	76.4%
2 Square - Woven	0.420" x 0.420"	.080	48"	71.0%
4 Square - Welded	0.255" x 0.255"	.025	36", 48"	81.0%
4 Square - Woven	0.225" x 0.225"	.025	36"	81.0%
4 Square - Woven	0.203" x 0.203"	.047	48"	65.9%
8 Square - Woven	0.108" x 0.108"	.017	48"	74.6%
2" x 1" Rectangular - Welded	1.900" x 0.920"	.080	48"	89.0%
1" x 1/2" Rectangular - Welded	0.937" x 0.437"	.063	60"	80.0%

VINYLMESH™

McNICHOLS VINYLMESE™, is a welded, Galvanized and then Vinyl-Coated Wire Mesh offered in a variety of meshes, gauges, and widths. VINYLMESE™ is easy to clean, as well as weather- and corrosion-resistant. Applications include animal cages, enclosures, screens, partitions, racking, and guards. VINYLMESE™ is available in full 100' coils only.

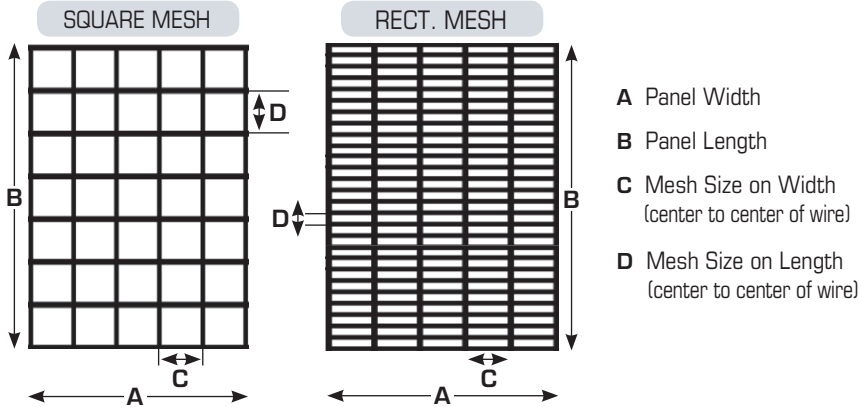


2" Mesh
Welded

VINYLMESH™ STOCK LIST

MESH	OPENING	DIAMETER	WIDTH	% O/A
2" Square - Welded	1.895" x 1.895"	.099	48"	90%
2" Square - Welded	1.900" x 1.900"	.080	36"	92%
1 Square - Welded	0.920" x 0.920"	.080	36", 48", 60"	85%
1 Square - Welded	0.937" x 0.937"	.063	24"	88%
2 Square - Welded	0.437" x 0.437"	.063	48"	76%

Measuring Square & Rectangular Mesh



McNICHOLS® Wire Mesh, Welded, 1-1/2" Mesh - Infill Panels, Harley-Davidson® Museum, Milwaukee, WI

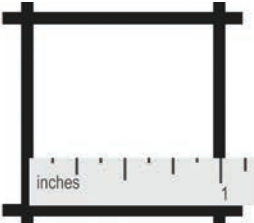
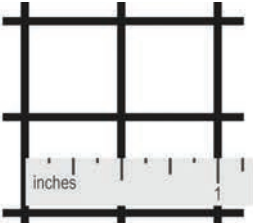
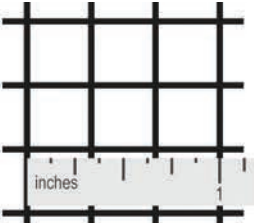
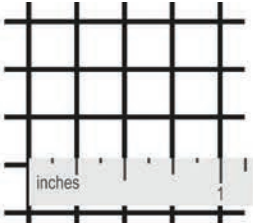
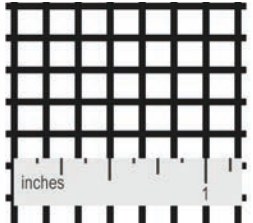
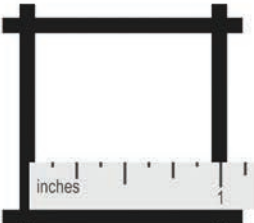
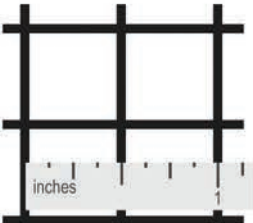
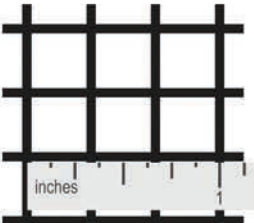
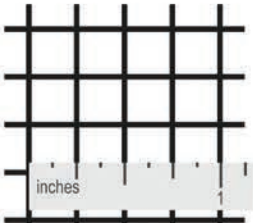
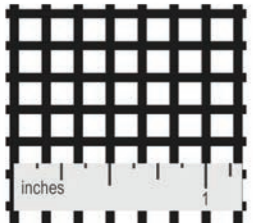
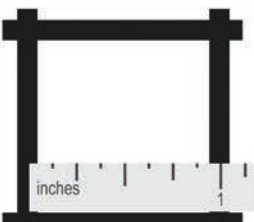
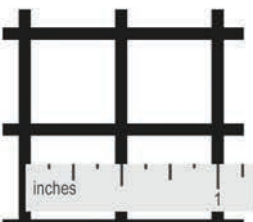
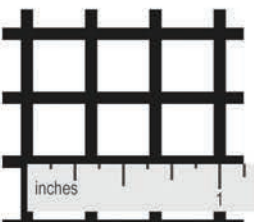
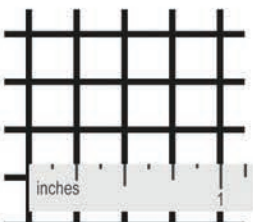
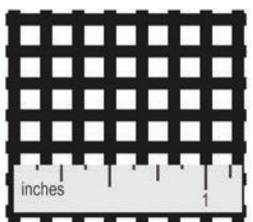
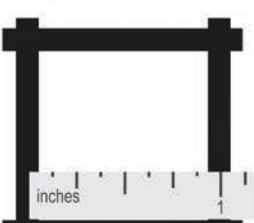
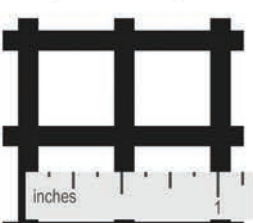
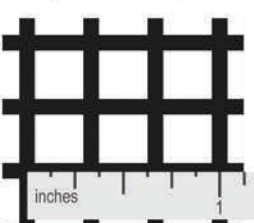
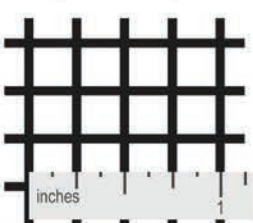
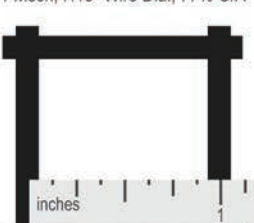
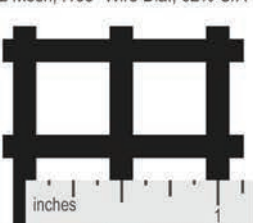
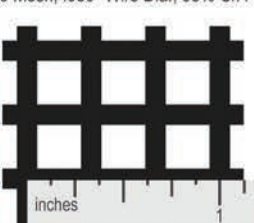
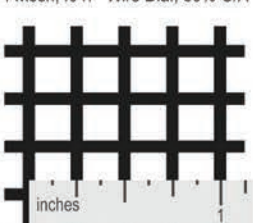
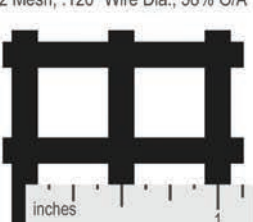
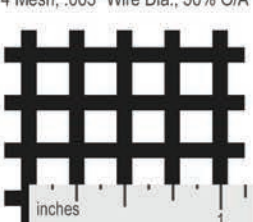


McNICHOLS® Wire Mesh, 18 Mesh - Wall and Ceiling Screens, High School Theater, Seattle, WA

WIRE DIAMETERS & GAUGE EQUIVALENTS TO SCALE

DIA.	END & SIDE VIEW	GAUGE
.430		5/0
.362		3/0
.331		2/0
.283		1 GA
.263		2 GA
.244		3 GA
.225		4 GA
.207		5 GA
.192		6 GA
.177		7 GA
.162		8 GA
.148		9 GA
.135		10 GA
.120		11 GA
.105		12 GA
.092		13 GA
.080		14 GA
.072		15 GA
.063		16 GA
.054		17 GA
.047		18 GA
.041		19 GA
.035		20 GA
.032		21 GA

SQUARE MESH SIZES TO SCALE

1 MESH	2 MESH	3 MESH	4 MESH	6 MESH
 1 Mesh, .063" Wire Dia., 88% O/A	 2 Mesh, .041" Wire Dia., 84% O/A	 3 Mesh, .032" Wire Dia., 82% O/A	 4 Mesh, .025" Wire Dia., 81% O/A	 6 Mesh, .035" Wire Dia., 63% O/A
 1 Mesh, .080" Wire Dia., 85% O/A	 2 Mesh, .047" Wire Dia., 82% O/A	 3 Mesh, .047" Wire Dia., 74% O/A	 4 Mesh, .028" Wire Dia., 79% O/A	 6 Mesh, .047" Wire Dia., 52% O/A
 1 Mesh, .105" Wire Dia., 82% O/A	 2 Mesh, .063" Wire Dia., 76% O/A	 3 Mesh, .063" Wire Dia., 66% O/A	 4 Mesh, .032" Wire Dia., 76% O/A	 6 Mesh, .063" Wire Dia., 39% O/A
 1 Mesh, .118" Wire Dia., 77% O/A	 2 Mesh, .105" Wire Dia., 62% O/A	 3 Mesh, .080" Wire Dia., 58% O/A	 4 Mesh, .047" Wire Dia., 66% O/A	
 1 Mesh, .120" Wire Dia., 77% O/A	 2 Mesh, .120" Wire Dia., 58% O/A	 3 Mesh, .105" Wire Dia., 47% O/A	 4 Mesh, .063" Wire Dia., 56% O/A	
	 2 Mesh, .135" Wire Dia., 53% O/A		 4 Mesh, .080" Wire Dia., 46% O/A	

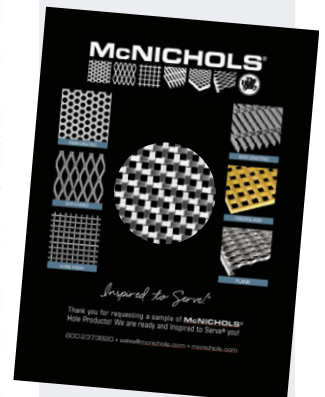
Please specify
McNICHOLS
on your next project.

Thank you!

A complete list of
McNICHOLS®
Square Mesh items
is available at
mcnichols.com!

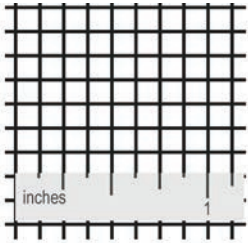
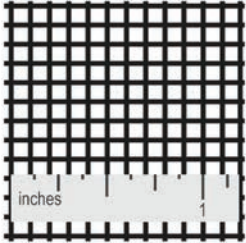
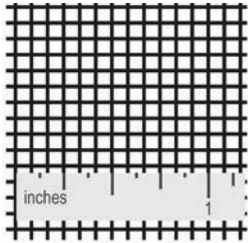
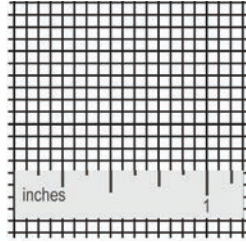
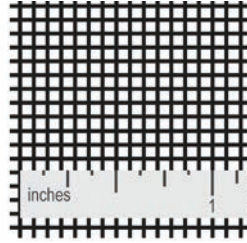
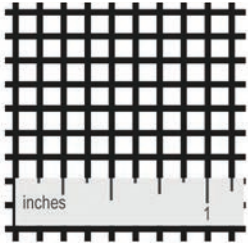
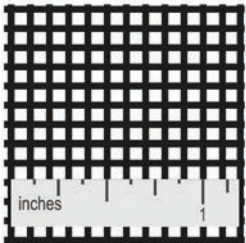
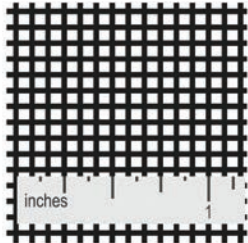
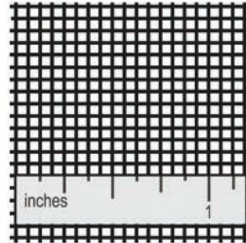
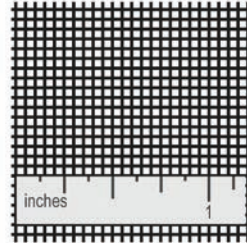
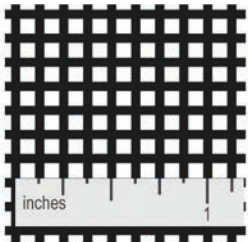
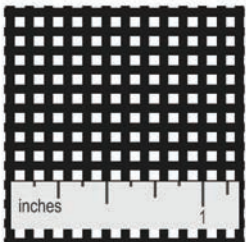
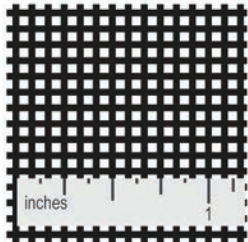
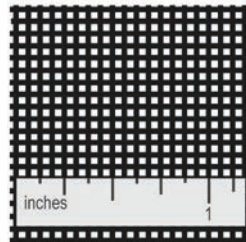
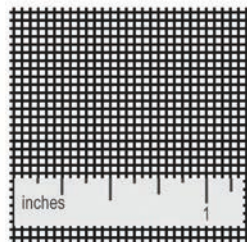
HOLE PRODUCT SAMPLES

NEED A SAMPLE?
We are ready and
Inspired to Serve® you
at **800.237.3820!**



Inspired to Serve!®

SQUARE MESH SIZES TO SCALE

8 MESH	10 MESH	12 MESH	16 MESH	FINE MESH
				
8 Mesh, .017" Wire Dia., 75% O/A	10 Mesh, .025" Wire Dia., 56% O/A	12 Mesh, .018" Wire Dia., 61% O/A	16 Mesh, .009" Wire Dia., 72% O/A	14 Mesh, .020" Wire Dia., 51% O/A
				
8 Mesh, .032" Wire Dia., 55% O/A	10 Mesh, .035" Wire Dia., 42% O/A	12 Mesh, .028" Wire Dia., 44% O/A	16 Mesh, .018" Wire Dia., 51% O/A	20 Mesh, .016" Wire Dia., 46% O/A
				
8 Mesh, .047" Wire Dia., 39% O/A	10 Mesh, .047" Wire Dia., 28% O/A	12 Mesh, .035" Wire Dia., 33% O/A	16 Mesh, .028" Wire Dia., 31% O/A	24 Mesh, .014" Wire Dia., 44% O/A

SQUARE MESH OPTIONS CHART

DIA.	OPENING	% O/A	#/100 SF	DIA.	OPENING	% O/A	#/100 SF	DIA.	OPENING	% O/A	#/100 SF	DIA.	OPENING	% O/A	#/100 SF	DIA.	OPENING	% O/A	#/100 SF
1" MESH CENTER TO CENTER				.092	.6580	76.9	72.8	.192	.3080	37.9	505.5	.072	.3724	70.1	75.7	.092	.2413	52.3	168.7
.250	.7500	56.3	412.4	.080	.6700	79.8	54.9	.177	.3230	41.7	425.4	.063	.3814	73.5	57.8	.080	.2533	57.6	126.4
.225	.7750	60.1	332.1	.072	.6780	81.7	44.5	.162	.3380	45.7	353.3	.054	.3904	77.0	42.3	.072	.2613	61.3	101.9
.207	.7930	62.9	280.1	.063	.6870	83.9	34.0	.148	.3520	49.6	292.4	.047	.3974	79.8	32.0	.063	.2703	65.6	77.6
.192	.8080	65.3	240.3	.054	.6960	86.1	24.9	.135	.3650	53.3	241.7	.041	.4034	82.2	24.3	.054	.2793	70.1	56.7
.177	.8230	67.7	203.7	5/8" MESH CENTER TO CENTER				.120	.3800	57.8	189.6	.192	.2080	27.0	654.4	.047	.2863	73.6	42.8
.162	.8380	70.2	170.2	.250	.3750	36.0	689.4	.105	.3950	62.4	144.2	.177	.2230	31.1	548.2	.041	.2923	76.7	32.5
.148	.8520	72.6	141.7	.225	.4000	41.0	551.0	.092	.4080	66.6	110.2	.162	.2380	35.4	453.1	.035	.2983	79.9	23.7
.135	.8650	74.8	117.7	.207	.4180	44.7	462.4	.080	.4200	70.6	83.0	.148	.2520	39.7	373.7	.032	.3013	81.5	19.7
.120	.8800	77.4	92.8	.192	.4330	48.0	395.0	.072	.4280	73.3	67.1	.135	.2650	43.9	307.8	3-1/2 MESH			
.105	.8950	80.1	71.0	.177	.4480	51.4	333.5	.063	.4370	76.4	51.2	.120	.2800	49.0	240.6	.135	.1507	27.9	429.0
.092	.9080	82.4	54.4	.162	.4630	54.9	277.7	.054	.4460	79.6	37.6	.105	.2950	54.4	182.4	.120	.1657	33.8	349.9
.080	.9200	84.6	41.1	.148	.4770	58.3	230.5	.047	.4530	82.1	28.4	.092	.2950	54.4	182.4	.105	.1807	40.1	263.2
.072	.9280	86.1	33.3	.135	.4900	61.5	191.0	.041	.4590	84.3	21.6	.080	.3080	59.3	139.0	.092	.1937	46.1	199.3
.063	.9370	87.8	25.5	.120	.5050	65.3	150.2	.035	.4650	86.5	15.7	.072	.3200	64.0	104.4	.080	.2057	52.0	148.9
3/4" MESH CENTER TO CENTER				.105	.5200	69.2	114.5	2-1/4 MESH				.072	.3280	67.2	84.3	.072	.2137	56.1	119.8
.250	.5000	44.4	562.3	.092	.5330	72.7	87.9	.207	.2374	28.4	680.9	.063	.3370	71.0	64.3	.063	.2227	60.9	91.1
.225	.5250	49.0	451.0	.080	.5450	76.0	66.1	.192	.2524	32.2	578.4	.054	.3460	74.8	47.1	.054	.2317	65.9	66.5
.207	.5430	52.4	379.4	.072	.5530	78.3	53.5	.177	.2674	36.1	485.7	.047	.3530	77.9	35.6	.047	.2387	70.9	50.2
.192	.5580	55.3	324.8	.063	.5620	80.9	40.9	.162	.2824	40.3	402.3	.041	.3590	80.6	27.0	.041	.2447	73.5	38.1
.177	.5730	58.3	274.7	.054	.5710	83.5	30.0	.148	.2964	44.4	332.5	3 MESH				.035	.2507	77.2	27.6
.162	.5880	61.4	229.2	.047	.5780	85.5	22.7	.135	.3094	48.3	274.3	.162	.1713	26.3	560.4	.032	.2537	79.0	23.1
.148	.6020	64.4	190.5	2 MESH				.120	.3244	53.1	214.8	.148	.1853	30.8	460.2	4 MESH			
.135	.6150	67.2	158.1	.250	.2500	25.0	894.6	.105	.3394	58.2	163.2	.135	.1983	35.3	377.6	.120	.1300	27.0	388.6
.120	.6300	70.5	124.4	.225	.2750	30.3	710.6	.092	.3524	62.7	124.5	.120	.2133	40.8	293.9	.105	.1450	33.6	306.2
.105	.6450	73.9	95.0	.207	.2930	34.3	593.8	.080	.3644	67.1	93.7	.105	.2283	46.8	222.0	.092	.1580	39.9	231.0

PLEASE NOTE: Some meshes must be made to order and minimum quantities may apply. Chart continues on page 21.

SQUARE MESH OPTIONS CHART (CONTINUED)

DIA.	OPENING	% O/A	#/100 SF
4 MESH (CONTINUED)			
.080	.1700	46.2	172.1
.072	.1780	50.7	138.2
.063	.1870	56.0	104.8
.054	.1960	61.5	76.4
.047	.2030	65.9	57.6
.041	.2090	69.9	43.6
.035	.2150	74.0	31.7
.032	.2180	76.0	26.4
.028	.2220	78.9	20.2
.025	.2250	81.0	16.1
4-1/2 MESH			
.105	.1172	27.7	333.7
.092	.1302	34.2	263.9
.080	.1422	40.8	195.9
.072	.1502	45.6	157.0
.063	.1592	51.2	118.9
.054	.1682	57.2	86.4
.047	.1752	62.0	65.0
.041	.1812	66.3	49.2
.035	.1872	70.8	35.7
.032	.1902	73.1	29.8
5 MESH			
.092	.1080	29.2	283.4
.080	.1200	36.0	220.6
.072	.1280	41.0	176.4
.063	.1370	46.9	133.2
.054	.1460	53.3	96.7
.047	.1530	58.5	72.6
.041	.1590	63.2	54.9
.035	.1650	68.1	39.8
.032	.1680	70.6	33.2
.028	.1720	74.0	25.3
.025	.1750	76.6	20.2
.023	.1770	78.3	17.0
6 MESH			
.092	.0747	20.2	352.8
.080	.0867	27.2	259.1
.072	.0947	32.5	216.9
.063	.1037	38.9	163.0
.054	.1127	46.0	117.7
.047	.1197	51.8	88.2
.041	.1257	57.2	66.5
.035	.1317	62.7	48.1
.032	.1347	65.6	40.0
.028	.1387	69.6	30.5
.025	.1417	72.6	24.3
.023	.1437	74.7	20.5
.020	.1467	77.8	15.5
7 MESH			
.063	.0799	31.4	184.7
.054	.0889	38.8	139.7
.047	.0959	45.2	104.2
.041	.1019	51.0	78.4
.035	.1079	57.2	56.5
.032	.1109	60.4	47.0
.028	.1149	64.8	35.8
.025	.1179	68.2	28.4
.023	.1199	70.6	24.0
.020	.1229	74.1	18.1
.018	.1249	76.6	14.6
8 MESH			
.054	.0710	32.3	162.7
.047	.0780	38.9	120.9
.041	.0840	45.2	90.6
.035	.0900	51.8	65.1
.032	.0930	55.4	54.1
.028	.0970	60.2	41.1

DIA.	OPENING	% O/A	#/100 SF
.025	.1000	64.0	32.6
.023	.1020	66.6	27.5
.020	.1050	70.6	20.7
.018	.1070	73.3	16.8
.017	.1080	74.6	14.9
9 MESH			
.054	.0571	26.3	177.4
.047	.0641	33.2	138.2
.041	.0701	39.7	103.2
.035	.0761	46.8	74.0
.032	.0791	50.6	61.4
.028	.0831	55.8	46.6
.025	.0861	59.9	36.9
.023	.0881	62.7	31.1
.020	.0911	67.1	23.4
10 MESH			
.047	.0530	28.1	148.4
.041	.0590	34.8	116.3
.035	.0650	42.3	83.1
.032	.0680	46.2	68.8
.028	.0720	51.8	52.1
.025	.0750	56.3	41.2
.023	.0770	59.3	34.7
.020	.0800	64.0	26.1
12 MESH			
.041	.0423	25.4	136.7
.035	.0483	33.2	102.1
.032	.0513	37.5	84.3
.028	.0553	43.6	63.5
.025	.0583	48.4	50.1
.023	.0603	51.8	42.2
.020	.0633	57.2	31.6
.018	.0653	60.8	25.5
14 MESH			
.035	.0364	25.4	116.1
.032	.0394	29.8	100.5
.028	.0434	36.2	75.5
.025	.0464	41.5	59.3
.023	.0484	45.2	49.8
.020	.0514	51.0	37.2
.018	.0534	55.1	29.9
.017	.0544	57.2	26.6
.016	.0554	59.3	23.5
.015	.0564	61.5	20.6
.014	.0574	63.7	17.9
16 MESH			
.028	.0345	30.5	83.6
.025	.0375	36.0	68.9
.023	.0395	39.9	57.7
.020	.0425	46.2	43.0
.018	.0445	50.7	34.5
.017	.0455	53.0	30.7
.016	.0465	55.4	27.1
.015	.0475	57.8	23.7
.014	.0485	60.2	20.6
.0135	.0490	61.5	19.1
.013	.0495	62.7	17.7
.012	.0505	65.3	15.0
.011	.0515	67.9	12.6
.010	.0525	70.6	10.4
.0095	.0530	71.9	9.4
18 MESH			
.025	.0306	30.3	75.0
.023	.0326	34.4	66.0
.020	.0356	41.1	49.0
.018	.0376	45.8	39.2
.017	.0386	48.3	34.8
.016	.0396	50.8	30.7

DIA.	OPENING	% O/A	#/100 SF
.015	.0406	53.4	26.8
.014	.0416	56.1	23.3
.0135	.0421	57.4	21.6
.013	.0426	58.8	20.0
.012	.0436	61.6	17.0
.011	.0446	64.4	14.2
.010	.0456	67.4	11.7
.0095	.0460	68.9	10.5
.009	.0466	70.4	9.5
20 MESH			
.025	.0250	25.0	85.0
.023	.0270	29.2	70.8
.020	.0300	36.0	55.2
.018	.0320	41.0	44.1
.017	.0330	43.6	39.1
.016	.0340	46.2	34.4
.015	.0350	49.0	30.1
.014	.0360	51.8	26.1
.0135	.0365	53.3	24.2
.013	.0370	54.8	22.4
.012	.0380	57.8	19.0
.011	.0390	60.8	15.9
.010	.0400	64.0	13.1
.0095	.0405	65.6	11.8
.009	.0410	67.2	10.5
24 MESH			
.020	.0217	27.1	64.8
.018	.0237	32.4	51.5
.017	.0247	35.1	48.0
.016	.0257	38.0	42.1
.015	.0267	41.1	36.7
.014	.0277	44.2	31.8
.0135	.0282	45.8	29.4
.013	.0287	47.4	27.2
.012	.0297	50.8	23.0
26 MESH			
.018	.0205	28.4	56.6
.017	.0215	31.2	52.6
.016	.0225	34.2	46.1
.015	.0235	37.3	40.2
.014	.0245	40.6	34.7
.0135	.0250	42.3	32.1
.013	.0255	44.0	29.7
.012	.0265	47.5	25.1
.011	.0275	51.1	20.9
.010	.0285	54.9	17.2
30 MESH			
.016	.0173	26.9	51.8
.015	.0183	30.1	47.4
.014	.0193	33.5	40.8
.0135	.0198	35.3	37.8
.013	.0203	37.1	34.8
.012	.0213	40.8	29.4
.011	.0223	44.8	24.5
.010	.0233	48.9	20.0
.0095	.0238	51.0	18.0
.009	.0243	53.1	16.1
.0085	.0248	55.4	14.3
35 MESH			
.014	.0146	26.1	46.5
.0135	.0151	27.9	45.2
.013	.0156	29.8	41.6
.012	.0166	33.8	35.0
.011	.0176	37.9	29.0
.010	.0186	42.4	23.7
.0095	.0191	44.7	21.3
.009	.0196	47.1	19.0

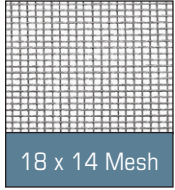
DIA.	OPENING	% O/A	#/100 SF
40 MESH			
.012	.0130	27.0	40.9
.011	.0140	31.4	33.8
.010	.0150	36.0	27.6
.0095	.0155	38.4	24.7
.009	.0160	41.0	22.0
45 MESH			
.011	.0112	25.4	36.9
.010	.0122	30.1	31.6
.0095	.0127	32.7	28.3
.009	.0132	35.3	25.2
.0085	.0137	38.0	22.3
.008	.0142	40.8	19.6
.0075	.0147	43.8	17.1
50 MESH			
.010	.0100	25.0	34.0
.0095	.0105	27.6	32.0
.009	.0110	30.3	28.4
.0085	.0115	33.1	25.1
.008	.0120	36.0	22.1
.0075	.0125	39.1	19.2
60 MESH			
.008	.0087	27.2	27.3
.0075	.0092	30.5	23.7
.007	.0097	33.9	20.4
.0065	.0102	37.5	17.4
.006	.0107	41.2	14.7
70 MESH			
.007	.0073	26.1	23.3
.0065	.0078	29.8	20.8
.006	.0083	33.8	17.5
80 MESH			
.006	.0065	27.0	20.4
.0055	.0070	31.4	16.9
.005	.0075	36.0	13.8
90 MESH			
.006	.0051	21.1	22.4
.0055	.0056	25.4	18.4
.005	.0061	30.1	15.8
100 MESH			
.0045	.0055	30.3	14.2
.004	.0060	36.0	11.0
.0035	.0065	42.3	8.3
.003	.0070	49.0	6.0
.0022	.0078	60.8	3.2
120 MESH			
.0037	.0046	30.7	13.0
130 MESH			
.0034	.0043	31.1	11.9

DIA.	OPENING	% O/A	#/100 SF
140 MESH			
.0029	.0042	34.9	9.3
150 MESH			
.0026	.0041	37.4	8.0
160 MESH			
.0025	.0038	36.4	7.9
170 MESH			
.0024	.0035	35.1	7.7
180 MESH			
.0023	.0033	34.7	7.5
200 MESH			
.0021	.0029	33.6	7.0
220 MESH			
.0017	.0028	38.7	5.0
250 MESH			
.0016	.0024	36.0	5.1
325 MESH			
.0011	.0020	42.0	4.2
400 MESH			
.0010	.0015	36.0	3.7
TWILLED WEAVE			
100 MESH			
.005	.0045	25.0	17.0
110 MESH			
.0045	.0046	25.6	12.4
120 MESH			
.0042	.0041	24.6	10.4
.0040	.0043	26.6	10.2
130 MESH			
.0038	.0039	25.6	14.5
140 MESH			
.0033	.0038	28.6	11.8
150 MESH			
.0030	.0037	30.8	7.1
160 MESH			
.0028	.0035	31.4	7.0
170 MESH			
.0026	.0033	31.2	8.8
180 MESH			
.0025	.0031	31.1	6.7
200 MESH			
.0025	.0025	25.0	6.6
.0023	.0027	29.2	6.3
250 MESH			
.0016	.0024	36.0	4.6
270 MESH			
.0016	.0021	32.2	5.3
300 MESH			
.0015	.0018	29.7	5.2

RECTANGULAR WIRE MESH

McNICHOLS® Rectangular Wire Mesh has many of the same properties as Square Wire Mesh. The primary difference is the rectangular opening that is created when the mesh is constructed. **McNICHOLS** stocks both Woven (often referred to as Insect Screen) and Welded in several patterns and materials.

RECTANGULAR - WOVEN (INSECT SCREEN)



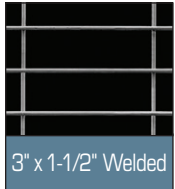
18 x 14 Mesh

McNICHOLS® Rectangular Woven Mesh, also referred to as Insect Screen, has a woven wire mesh construction. Small insects, such as no-see-ums, may pass through a typical insect screen (18 x 14 Mesh), but smaller meshes from 20 to 325 are available to slow down most bugs.

RECTANGULAR - WOVEN (INSECT SCREEN) STOCK LIST

MESH	MATERIAL	OPENING	DIAMETER	COIL WIDTH
18 x 14	Bronze	0.130" x 0.130"	.011	36"
18 x 14	Stainless Steel Type 304	0.090" x 0.090"	.009	36", 48"
18 x 14	Stainless Steel Type 304	0.130" x 0.130"	.011	36", 48"
18 x 14	Epoxy Coated	0.090" x 0.090"	.009	36", 48"
18 x 16	Aluminum	0.050" x 0.050"	.011	36", 48"

RECTANGULAR - WELDED



3" x 1-1/2" Welded

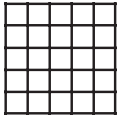
McNICHOLS® Rectangular Welded Wire Mesh typically has larger openings than Woven Wire Mesh. With the wire strands welded at each intersection, Welded Wire Mesh is more capable of maintaining its shape when stressed. The product is a popular choice for railing infill panels.

RECTANGULAR - WELDED STOCK LIST

MESH	MATERIAL	OPENING	DIAMETER	#/SF	WIDTH
1" x 1/2"	Galvanized	0.937" x 0.437"	.063	.40	60" Coil
2" x 1"	Carbon Steel	1.800" x 0.880"	.120	.70	48" x 96" Sheet
2" x 1"	Galvanized	1.920" x 0.920"	.080	.31	48" Coil
3" x 1-1/2"	Stainless Steel	2.880" x 1.380"	.120	.83	36" x 100" Sheet

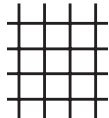
WELDED WIRE MESH TRIM & STUB OPTIONS

TRIMMED (NO STUBS)



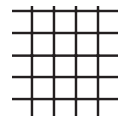
Minimum on all four sides approximately 1/16" - 1/8" long. Trimmed flush (no stubs) pieces can be identical.

UNTRIMMED BALANCED STUBS



Equal stubs on opposite sides only. Stubs will not exceed opening unless specified.

UNTRIMMED RANDOM STUBS



Untrimmed Random stubs vary on all four sides as a result of shearing a larger sheet. Pieces will not be identical.



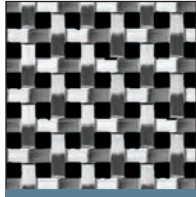
McNICHOLS® Wire Mesh, Welded, 3" x 1-1/2" Rectangular Mesh - Infill Panels



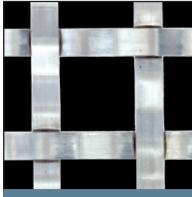
McNICHOLS® Wire Mesh, Welded, 2" x 4" Rectangular Mesh - Railing Infill Panels

DESIGNER WIRE MESH

McNICHOLS® Designer Wire Mesh is constructed of wires that are woven into a variety of unique patterns. Designer Wire Mesh applications include ceilings, stairway infill panels, overlay surfaces, wall cladding, sunshades, partitions, store fixtures, cabinet infills, signage or sign backing, aesthetic accents, and more! We have several patterns and styles in stock. We are ready and **Inspired to Serve®** you at **866.754.5144** or **designermetals@mcnichols.com**.



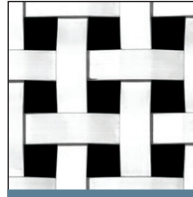
**ASHLAND™
2015**



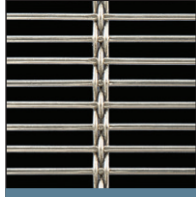
**ASHLAND™
8015**



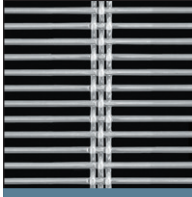
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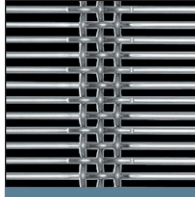
**ASHLAND™
8018**



**AURA™
8155**



**AURA™
8856**



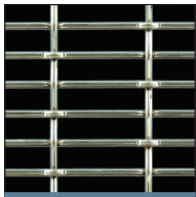
**AURA™
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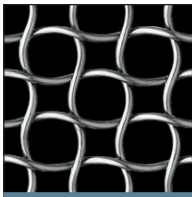
**CHATEAU™
3105**



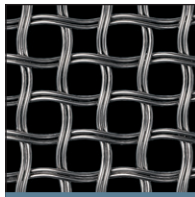
McNICHOLS® Designer Wire Mesh, ASHLAND™ 8018 - Building Facade, Rochester, NY



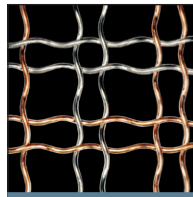
**CHATEAU™
3110**



**HALO™
1162**



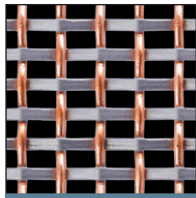
**HALO™
2252**



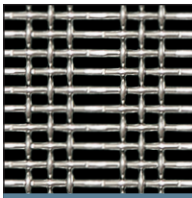
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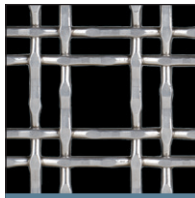
McNICHOLS® Designer Wire Mesh, CHATEAU™ 3105 - Parking Garage Infill Panels, Aurora, CO



**SHIRE™
8148**



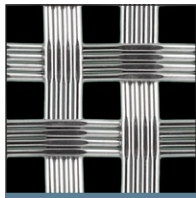
**SHIRE™
8314**



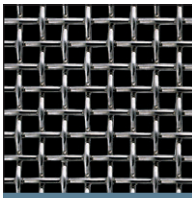
**TALICA™
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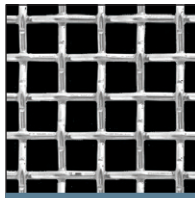
**TALICA™
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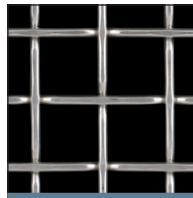
**TALICA™
8158**



**TALICA™
8220**



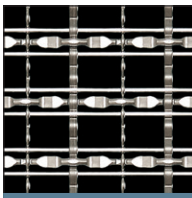
**TALICA™
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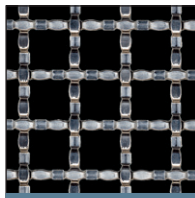
**TALICA™
8168**



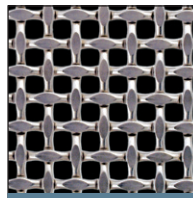
**TECHNA™
3155**



**TECHNA™
3156**



**TECHNA™
8159**



**TECHNA™
8163**



McNICHOLS® Designer Wire Mesh, AURA™ 8155, CHATEAU™ 3105, CHATEAU™ 3110 - Rooftop Garden Panels, Chicago, IL

ECO-MESH® MODULAR FACADE & TRELLIS SYSTEMS

McNICHOLS ECO-MESH® Modular Facade & Trellis System offers architects and contractors many aesthetic, sustainable and functional green-build opportunities. ECO-MESH® panels are strong, durable, lightweight and are well-suited for both interior and exterior spaces. Modular applications include facades, partitions, canopies, arbors and more. ECO-MESH® panels promote vegetation growth within the panel grid system.

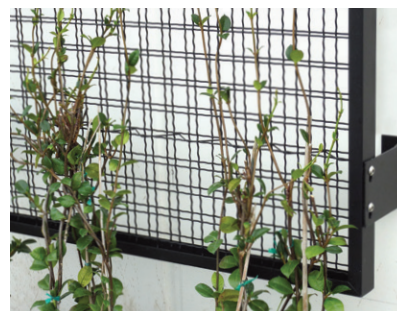
ECO-MESH® PRODUCT OPTIONS

PRIMARY MATERIAL	Galvannealed (most common) Aluminum, Carbon Steel or Stainless Steel
MATERIAL FINISH	Mill, Sandblasted, Eco-Friendly Powder Coatings with 13 Standard Colors
COLOR	Textured Black (in stock), Aged Copper, Brown, Forest Green, Gray, Light Gray, Jet Black, Moss Green, Red Brick, Red Orange, Reed Green, Rust, Tan
WEAVE TYPE	Woven - Intercrip Weave is Standard; (Other Weave Types Available)
MESH SIZE	2" x 2" Square Mesh In Stock (Other Sizes Available)
WIRE DIAMETER	0.135" Thick (0.120", 0.148" Available)
BRIDGE WIRE	0.105" Thick, Spaced 18" on Center
CHANNEL SIZE	2" or 3" Channel Width with 1" Return, 16 Gauge (.0635" Thick)
PANEL WIDTH	48" (24" to 96" Available)
PANEL HEIGHT	96" (24" to 240" Available)
ACCESSORIES	Mounting Brackets & Hardware Available

WE ARE READY AND INSPIRED TO SERVE® YOU AT 800.237.3820!



McNICHOLS ECO-MESH®



HOW TO ORDER/SPECIFY McNICHOLS ECO-MESH®

The information provided below is your guide for choosing **McNICHOLS ECO-MESH®** for your project. Please specify:

APPLICATION – Wall-mounted or freestanding

PRIMARY MATERIAL – Type of material (Galvannealed, Aluminum, Carbon Steel, or Stainless Steel)

MATERIAL FINISH – Mill finish, sandblasted or eco-friendly powder coating (13 standard colors available)

MESH SIZE – 2" x 2" or 3" x 3" Square Mesh (measured by the number of openings per lineal inch from center to center of the wires) is standard

WIRE DIAMETER – Thickness (measured in decimals) or gauge equivalent (0.135" thick wire diameter is standard)

BRIDGE WIRE – Thickness (measured in decimals) or gauge equivalent (0.105" thick wire diameter is standard)

CHANNEL SIZE – 2" or 3" channel width with 1" return in 16 Gauge is standard (and available in stock)

QUANTITY/SIZE(S) – Number of panels and sizes (48" width x 96" length panel available in stock)

SPECIAL – ECO-MESH® panels are available in a variety of custom sizes and shapes

ACCESSORIES – Mounting Brackets and Hardware

ECO-ROCK® GABION WALL CONTAINMENT SYSTEMS

McNICHOLS ECO-ROCK® creates decorative boundaries with an eco-friendly twist. The gabion-style Wire Mesh wall containers hold natural rock, recycled concrete, glass and other materials. In indoor and outdoor settings ECO-ROCK® containers add a sustainable design element. Whether it is an outdoor partition or a vertical entryway, **McNICHOLS** can craft a custom gabion-style design to meet your needs.

ECO-ROCK® PRODUCT OPTIONS

PRIMARY MATERIAL	Galvannealed (most common), Carbon Steel or Stainless Steel
MATERIAL FINISH	Mill, Sandblasted, Eco-Friendly Powder Coatings with 13 Standard Colors
COLOR	Textured Black (in stock), Aged Copper, Brown, Forest Green, Gray, Light Gray, Jet Black, Moss Green, Red Brick, Red Orange, Reed Green, Rust, Tan
WEAVE TYPE	Woven – Intercrip Weave
MESH SIZE	2" x 2" & 3" x 3" Square Mesh (Other Sizes Available)
WIRE DIAMETER	0.148" Thick (9 Gauge) or 0.192" Thick (6 Gauge)
BULGE WIRE DIAMETER	0.105" Thick (12 Gauge) or 0.148" Thick (9 Gauge)
BULGE WIRE SPACING	12" on Center (Vertically), 18" on Center (Horizontally)
CHANNEL/BENT PLATE ANGLE SIZE	Up to 12": 10 Gauge (.1345" Thick) Channel with 1" Return Greater than 12": 2" x 2" Bent Plate Angle, 10 Gauge (.1345" Thick)
PANEL WIDTH	36" to 72"
PANEL HEIGHT	36" to 96"

WE ARE READY AND INSPIRED TO SERVE® YOU AT 800.237.3820!

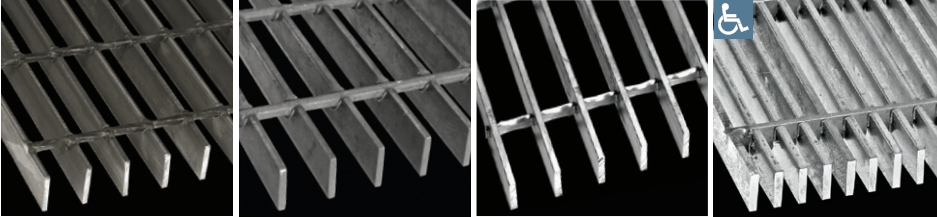


McNICHOLS ECO-ROCK®

BAR GRATING

McNICHOLS® Bar Grating is the top choice for strength, safety and overall value! Bar Grating provides a load bearing surface that allows air, light, heat, sound, and fluid to pass through. Bar Grating is strong, durable, and virtually maintenance-free!

PRODUCT SPECIFICATIONS

CONSTRUCTION TYPES				
	WELDED	HEAVY-DUTY WELDED	SWAGE-LOCKED	PRESS-LOCKED
SERIES NAME	GW, CMW (CLOSE MESH), SGW	GHB, PEDS & TREADS®	GAL, GIA, SFT, TB-940 (SAFE-T-GRID®)	GAA, GCM (CLOSE MESH)
PRODUCT SPACING	19-W-4, 19-W-2, 15-W-4, 15-W-2, 11-W-4,	19-W-4	19-S-4, 19-S-2, 19-SI-4, 15-SI-4, 15-SI-2,	19-P-4, 11-P-4, 8-P-4, 7-P-4,
PRIMARY MATERIAL	Carbon Steel, Carbon Steel (Powder Coated Black), Galvanized Steel, Stainless Steel	Carbon Steel, Galvanized Steel	Aluminum, Stainless Steel	Aluminum, Carbon Steel, Galvanized Steel, Stainless Steel
BAR HEIGHT	3/4" to 2-1/2"	1" to 3"	1" to 2-1/2"	1" to 2"
BAR THICKNESS	1/8", 3/16"	1/4" (5/16", 3/8" by Special Order)	1/8", 3/16", 1/4", 0.940" - TB-940 (SAFE-T-GRID®)	3/16"
PRODUCT SURFACE	Smooth, Serrated	Smooth, Serrated	Smooth, Serrated, Grooved	Smooth, Serrated
% OPEN AREA	68% to 83%	74.5%	20.6% to 83%	55%
STANDARD PANEL SIZES	24" x 240" 24" x 288" 36" x 240" 36" x 288"	24" x 240" 24" x 288" 36" x 240" 36" x 288"	24" x 288" 36" x 288"	36" x 144"

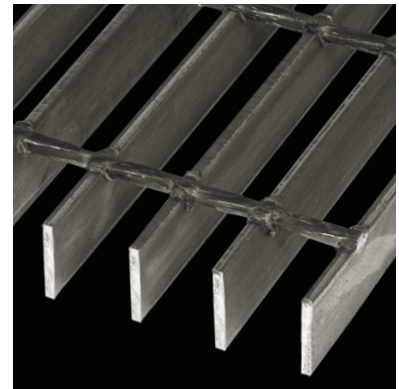
WE ARE READY AND **INSPIRED TO SERVE®** YOU AT 800.237.3820!



McNICHOLS® Bar Grating, Swage-Locked, GAL-100
Sunshade, Margarido House, Oakland, CA



McNICHOLS® Bar Grating, Press-Locked, GCM-CLOSE
MESH - Display, Harley-Davidson® Museum, Milwaukee, WI



HOW TO ORDER/SPECIFY **McNICHOLS®** BAR GRATING

The information provided below is your guide for choosing the right **McNICHOLS®** BAR GRATING product for your project. Please specify:

APPLICATION – Bar Grating use and physical requirements (interior or exterior application; loading, span and support requirements; traffic requirements such as pedestrian, ADA, vehicular, hand cart, etc.)

CONSTRUCTION TYPE – Type of construction (Welded, Heavy-Duty Welded, Swage-Locked, Press-Locked, Clinched)

SERIES TYPE & NAME – Type of series (GW-100, GHB-150, GAL-125, etc.)

PRODUCT SPACING – 19-W-4, 15-W-2, etc.

PRIMARY MATERIAL – Type of material (Aluminum, Carbon Steel, Carbon Steel – Powder Coated Black, Galvanized Steel, Stainless Steel)

MATERIAL FINISH – Inventory is typically mill finish for Aluminum, Carbon Steel and Stainless Steel. Hot-Dipped Galvanized, Powder Coated Black or Powder Coated Gray finishes available for many items

BAR SIZE – Bar height and thickness (e.g. 1-1/4" Height x 3/16" Thick)

BAR SHAPE – Rectangular (Aluminum, Steel, Stainless Steel), I-Bar or T-Bar (Aluminum only)

BAR SPACING – Bearing bar and cross bar spacing measured on center (e.g. 19-W-4 is equivalent to 1-3/16" (19/16) bearing bar spacing on center, welded construction, 4" cross bar spacing on center)

PRODUCT SURFACE – Smooth or serrated surface (Aluminum, Steel, Stainless Steel Rectangular Bar), grooved surface (Aluminum I-Bar and T-Bar)

OPEN AREA – Percentage of open area

SPAN – Direction of bearing bars (long span on stock panels runs parallel to the length dimension)

QUANTITY/SIZE(S) – Number of panels (width and length) and/or sizes (cut-to-size pieces, areas, treads) and cut types (random, uniform, equal stub). Areas exceeding standard panel widths provided in multiple pieces to width

SPECIAL – Requirements such as fabrication, banding (trim and/or load) notching, cut-outs, toeboards, stair treads (width, length or span and nosing type), non-standard tolerances, etc.

ACCESSORIES – Quantity and type of Clips or Fasteners/Hardware



WELDED BAR GRATING

McNICHOLS® Welded Bar Grating is a suitable flooring application choice because of its strength, safety, and overall value. Welded Bar Grating has a rectangular-shaped bearing bar that is available in a variety of thicknesses, heights, spacings, and materials.

GW, CMW & SGW SERIES

McNICHOLS® GW Series Grating will handle most moderate loads and light wheel traffic with its standard bearing bar centers of 1-3/16". **McNICHOLS®** CMW Series CLOSE MESH Grating is suitable for wheelchair traffic and is ADA-compliant. **McNICHOLS®** SGW Series Grating will handle heavier loads than GW Series Grating.

PRODUCT OPTIONS

Material: Carbon Steel, Carbon Steel (Powder Coated Black), Galvanized Steel, Stainless Steel
Bar Height: 3/4" to 2-1/2"
Bar Thickness: 1/8", 3/16" (Rectangular)
Surface: Smooth, Serrated
Standard Size: 24" x 240", 24" x 288", 36" x 240", 36" x 288"

LOAD TABLE: GW, SGW (STEEL)

BEARING BAR SIZE	SPAN (1-3/16" CENTER TO CENTER BAR SPACING)									
	2	2 6"	3	3 6"	4	4 6"	5	5 6"	6	7
3/4" x 1/8"	U 355	227	158	116	89	70	To determine load for SGW, SGW-2, multiply value at left by the load factor of 1.27. Deflection under the factored loads will be same as shown in the load table.			
	D .099	.155	.223	.304	.397	.503				
	C 355	284	237	203	178	158				
	D .079	.124	.179	.243	.318	.402				
3/4" x 3/16"	U 533	341	237	174	133	105	For Serrated Grating, use loading values 1/4" less than your actual bearing bar height selection.			
	D .099	.155	.223	.304	.397	.503				
	C 533	426	355	305	266	237				
	D .079	.124	.179	.243	.318	.402				
1" x 1/8"	U 632	404	281	206	158	125	101	84	70	
	D .074	.116	.168	.228	.298	.377	.466	.563	.670	
	C 632	505	421	361	316	281	253	230	211	
	D .060	.093	.134	.182	.238	.302	.372	.451	.536	
1" x 3/16"	U 947	606	421	309	237	187	152	125	105	
	D .074	.116	.168	.228	.298	.377	.466	.563	.670	
	C 947	758	632	541	474	421	379	344	316	
	D .060	.093	.134	.182	.238	.302	.372	.451	.536	
1-1/4" x 1/8"	U 987	632	439	322	247	195	158	130	110	81
	D .060	.093	.134	.182	.238	.302	.372	.451	.536	.730
	C 987	789	658	564	493	439	395	359	329	282
	D .048	.074	.107	.146	.191	.241	.298	.360	.429	.584
1-1/4" x 3/16"	U 1480	947	658	483	370	292	237	196	164	121
	D .060	.093	.134	.182	.238	.302	.372	.451	.536	.730
	C 1480	1184	987	846	740	658	592	538	493	423
	D .048	.074	.107	.146	.191	.241	.298	.360	.429	.584
1-1/2" x 1/8"	U 1421	909	632	464	355	281	227	188	158	116
	D .050	.078	.112	.152	.199	.251	.310	.376	.447	.608
	C 1421	1137	947	812	711	632	568	517	474	406
	D .040	.062	.089	.122	.159	.201	.248	.300	.358	.487
1-1/2" x 3/16"	U 2132	1364	947	696	533	421	341	282	237	174
	D .050	.078	.112	.152	.199	.251	.310	.376	.447	.608
	C 2132	1705	1421	1218	1066	947	853	775	711	609
	D .040	.062	.089	.122	.159	.201	.248	.300	.358	.487
1-3/4" x 3/16"	U 2901	1857	1289	947	725	573	464	384	322	237
	D .043	.067	.096	.130	.170	.215	.266	.322	.383	.521
	C 2901	2321	1934	1658	1451	1289	1161	1055	967	829
	D .034	.053	.077	.104	.136	.172	.213	.257	.306	.417
2" x 3/16"	U 3789	2425	1684	1237	947	749	606	501	421	309
	D .037	.058	.084	.114	.149	.189	.233	.282	.335	.456
	C 3789	3032	2526	2165	1895	1684	1516	1379	1263	1083
	D .030	.047	.067	.091	.119	.151	.186	.225	.268	.365
2-1/4" x 3/16"	U 4796	3069	2132	1566	1199	947	767	634	533	392
	D .033	.052	.074	.101	.132	.168	.207	.250	.298	.406
	C 4796	3837	3197	2741	2398	2132	1918	1744	1599	1370
	D .026	.041	.060	.081	.106	.134	.166	.200	.238	.324
2-1/2" x 3/16"	U 5921	3789	2632	1933	1480	1170	947	783	658	483
	D .030	.047	.067	.091	.119	.151	.186	.225	.268	.365
	C 5921	4737	3947	3383	2961	2632	2368	2153	1974	1692
	D .024	.037	.054	.073	.095	.121	.149	.180	.215	.292

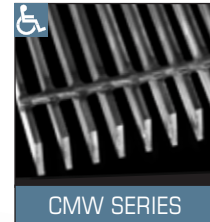
Unit Stress 18,000 psi: U - Uniform Load - Lbs./Square Foot, D - Deflection - in Inches, C - Concentrated Load - Lbs./Square Foot of Width at Mid span
 Spans shaded in blue produce a deflection of 1/4" or less under a uniform load of 100 lbs. per square foot. This deflection is recommended as the maximum to provide pedestrian comfort. It can be exceeded at the discretion of the engineer.

The carrying capacity of a piece of Grating subjected to a concentrated load over only a portion of its width is determined by the stiffness of both the bearing bars and the cross bars, and therefore varies with the type of Grating used. Please call us to determine carrying capacity of Gratings subject to such loadings.

This technical information provided is as a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. **McNICHOLS** shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.



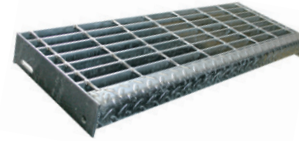
GW SERIES



CMW SERIES



SGW SERIES



Welded Stair Treads
page 32

BAR SPACING: GW, SGW

	GW (19-W-4)		GW-2 (19-W-2)		SGW (15-W-4)		SGW-2 (15-W-2)	
BAR SPACING								
END VIEW (1/8" THICKNESS ALSO AVAILABLE)								
BEARING BAR SIZE	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF
3/4" x 1/8"	GW-75-A	4.1	GW-75-A-2	5.0	SGW-75-A	5.0	SGW-75-A-2	5.9
3/4" x 3/16"	GW-75	5.8	GW-75-2	6.7	SGW-75	7.2	SGW-75-2	8.1
1" x 1/8"	GW-100-A	5.2	GW-100-A-2	6.1	SGW-100-A	6.4	SGW-100-A-2	7.3
1" x 3/16"	GW-100	7.5	GW-100-2	8.4	SGW-100	9.3	SGW-100-2	10.2
1-1/4" x 1/8"	GW-125-A	6.3	GW-125-A-2	7.2	SGW-125-A	7.9	SGW-125-A-2	8.8
1-1/4" x 3/16"	GW-125	9.1	GW-125-2	10.0	SGW-125	11.3	SGW-125-2	12.2
1-1/2" x 1/8"	GW-150-A	7.4	GW-150-A-2	8.3	SGW-150-A	9.3	SGW-150-A-2	10.2
1-1/2" x 3/16"	GW-150	10.8	GW-150-2	11.7	SGW-150	13.5	SGW-150-2	14.4
1-3/4" x 3/16"	GW-175	12.5	GW-175-2	13.4	SGW-175	15.6	SGW-175-2	16.5
2" x 3/16"	GW-200	14.1	GW-200-2	15.0	SGW-200	17.7	SGW-200-2	18.6
2-1/4" x 3/16"	GW-225	15.8	GW-225-2	16.7	SGW-225	19.8	SGW-225-2	20.7
2-1/2" x 3/16"	GW-250	17.4	GW-250-2	18.3	SGW-250	21.9	SGW-250-2	22.8

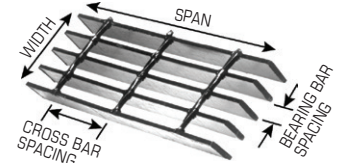
PANEL WIDTHS: GW, SGW

# Bars	GW, GW-2	SGW, SGW-2	# Bars	GW, GW-2	SGW, SGW-2	# Bars	GW, GW-2	SGW, SGW-2	
2	1-3/8"	1-1/8"	17	19-3/16"	15-3/16"	32	PLEASE NOTE: Width and length tolerance $\pm 1/4"$	29-1/4"	
3	2-9/16"	2-1/16"	18	20-3/8"	16-1/8"	33		30-3/16"	
4	3-3/4"	3"	19	21-9/16"	17-1/16"	34		31-1/8"	
5	4-15/16"	3-15/16"	20	22-3/4"	18"	35		32-1/16"	
6	6-1/8"	4-7/8"	21	23-15/16"	18-15/16"	36		33"	
7	7-5/16"	5-13/16"	22	25-1/8"	19-7/8"	37		33-15/16"	
8	8-1/2"	6-3/4"	23	26-5/16"	20-13/16"	38		34-7/8"	
9	9-11/16"	7-11/16"	24	27-1/2"	21-3/4"	39		35-13/16"	
10	10-7/8"	8-5/8"	25	28-11/16"	22-11/16"	Max. width indicated. Wider areas will be made in two or more panels. Panels are available up to 48" by special order. All other widths are cut-to-size. Deduct 1/16" from width for 1/8" bearing bars.			
11	12-1/16"	9-9/16"	26	29-7/8"	23-5/8"				
12	13-1/4"	10-1/2"	27	31-1/16"	24-9/16"				
13	14-7/16"	11-7/16"	28	32-1/4"	25-1/2"				
14	15-5/8"	12-3/8"	29	33-7/16"	26-7/16"				
15	16-13/16"	13-5/16"	30	34-5/8"	27-3/8"				
16	18"	14-1/4"	31	35-13/16"	28-5/16"				

Serrated Surface

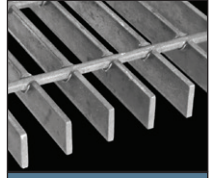


Rectangular Bar Grating Diagram



HEAVY-DUTY WELDED BAR GRATING

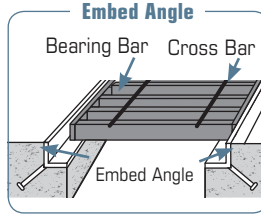
McNICHOLS® Heavy-Duty Welded Bar Grating is your choice for applications requiring maximum load-bearing capability.



GHB SERIES

GHB SERIES

McNICHOLS® GHB Series Grating can handle heavier load requirements with a bearing bar thickness of 1/4" and bar heights from 1" to 3". This Grating is ideal for bridge floors, highways, airport runways, or other high-load trench applications.



PRODUCT OPTIONS

Material: Carbon Steel, Carbon Steel (Powder Coated Black), Galvanized Steel
Bar Height: 1" to 3"
Bar Thickness: 1/4" - Rectangular (5/16" or 3/8" - Special Order)
Surface: Smooth, Serrated
Standard Size: 24" x 240", 24" x 288", 36" x 240", 36" x 288"

LOAD TABLE: GHB, GHB-2 (STEEL)

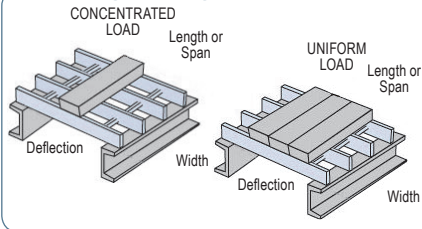
BEARING BAR SIZE	SPAN (1-3/16" CENTER TO CENTER BAR SPACING)															
	1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	
1" x 1/4"	U 5615	2495	1404	898	624	458	351	277	225	186	156	133	115	100	88	
	D .021	.047	.083	.129	.186	.253	.331	.419	.518	.627	.745	.875	1.018	1.166	1.329	
	C 2807	1872	1404	1123	936	802	702	624	561	510	468	432	401	374	351	
1-1/4" x 1/4"	U 8772	3899	2193	1404	975	716	548	433	351	290	244	208	179	156	137	
	D .017	.037	.066	.104	.149	.203	.265	.335	.414	.501	.597	.701	.811	.931	1.059	
	C 4386	2924	2193	1754	1462	1253	1097	975	877	797	731	675	627	585	548	
1-1/2" x 1/4"	U 12632	5614	3158	2021	1404	1031	790	624	505	418	351	299	258	225	197	
	D .014	.031	.055	.086	.124	.169	.221	.279	.345	.418	.497	.583	.676	.777	.881	
	C 6316	4211	3158	2526	2105	1805	1579	1404	1263	1148	1053	972	902	842	790	
1-3/4" x 1/4"	U 17193	7641	4298	2751	1910	1404	1075	849	688	568	478	407	351	306	269	
	D .012	.027	.047	.074	.106	.145	.189	.239	.296	.357	.426	.500	.580	.666	.758	
	C 8597	5731	4298	3439	2866	2456	2149	1910	1719	1563	1433	1323	1228	1146	1075	
2" x 1/4"	U 22456	9980	5614	3593	2495	1833	1404	1109	898	742	624	532	458	399	351	
	D .010	.023	.041	.065	.093	.127	.166	.210	.259	.313	.373	.438	.507	.582	.662	
	C 11228	7485	5614	4491	3743	3208	2807	2495	2246	2041	1871	1727	1604	1497	1404	
2-1/2" x 1/4"	U 35088	15595	8772	5614	3899	2864	2193	1733	1404	1160	975	830	716	624	548	
	D .008	.019	.033	.052	.075	.101	.132	.168	.207	.250	.298	.350	.406	.466	.530	
	C 17544	11696	8772	7018	5848	5013	4386	3899	3509	3190	2924	2699	2506	2339	2193	
3" x 1/4"	U 50527	22456	12632	8084	5614	4125	3158	2495	2021	1670	1404	1196	1031	898	789	
	D .007	.016	.028	.043	.062	.085	.110	.140	.172	.209	.248	.291	.338	.388	.441	
	C 25263	16842	12632	10105	8421	7218	6316	5614	5053	4593	4211	3887	3609	3368	3158	
3-1/2" x 1/4"	U 68772	30565	17193	11004	7641	5614	4298	3396	2751	2273	1910	1628	1404	1223	1075	
	D .006	.013	.024	.037	.053	.072	.095	.120	.148	.179	.213	.250	.290	.333	.379	
	C 34386	22924	17193	13754	11462	9825	8597	7641	6877	6252	5731	5290	4912	4585	4298	
4" x 1/4"	U 89825	39922	22456	14372	9981	7333	5614	4436	3593	2969	2495	2126	1833	1597	1404	
	D .005	.012	.021	.032	.047	.063	.083	.105	.129	.156	.186	.219	.253	.291	.331	
	C 44913	29942	22456	17965	14971	12832	11228	9981	8983	8166	7485	6910	6416	5988	5614	

U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches
 C - Concentrated Load - Lbs./Square Foot of Width at Mid Span

GHB and GHB-2 is welded. This Grating is not normally used for standard floor layouts but is usually selected by engineers for rolling or vehicular loads for narrow space work.

This technical information provided is as a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. **McNICHOLS** shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.

Load Diagram Swage-Locked Cross Bars



Heavy-Duty
Welded Stair Treads
page 32

BAR SPACING: GHB, GHB-2

	GHB (19-W-4)	GHB-2 (19-W-2)		
BAR SPACING				
END VIEW (3/8" AND 5/16" THICKNESS ALSO AVAILABLE)				
BEARING BAR SIZE	SERIES	#/SF	SERIES	#/SF
1" x 1/4"	GHB-100	9.8	GHB-100-2	10.7
1-1/4" x 1/4"	GHB-125	12.0	GHB-125-2	12.9
1-1/2" x 1/4"	GHB-150	14.3	GHB-150-2	15.1
1-3/4" x 1/4"	GHB-175	16.5	GHB-175-2	17.4
2" x 1/4"	GHB-200	18.7	GHB-200-2	19.6
2-1/2" x 1/4"	GHB-250	23.2	GHB-250-2	24.0
3" x 1/4"	GHB-300	27.9	--	--

PANEL WIDTHS: GHB, GHB-2

# BARS	BEARING BAR THICKNESS			# BARS	BEARING BAR THICKNESS		
	1/4"	5/16"	3/8"		1/4"	5/16"	3/8"
2	1-7/16"	1-1/2"	1-9/16"	17	19-1/4"	19-5/16"	19-3/8"
3	2-5/8"	2-11/16"	2-3/4"	18	20-7/16"	20-1/2"	20-9/16"
4	3-13/16"	3-7/8"	3-15/16"	19	21-5/8"	21-11/16"	21-3/4"
5	5"	5-1/16"	5-1/8"	20	22-13/16"	22-7/8"	22-15/16"
6	6-3/16"	6-1/4"	6-5/16"	21	24"	24-1/16"	24-1/8"
7	7-3/8"	7-7/16"	7-1/2"	22	25-3/16"	25-1/4"	25-5/16"
8	8-9/16"	8-5/8"	8-11/16"	23	26-3/8"	26-7/16"	26-1/2"
9	9-3/4"	9-13/16"	9-7/8"	24	27-9/16"	27-5/8"	27-11/16"
10	10-15/16"	11"	11-1/16"	25	28-3/4"	28-13/16"	28-7/8"
11	12-1/8"	12-3/16"	12-1/4"	26	29-15/16"	30"	30-1/16"
12	13-5/16"	13-3/8"	13-7/16"	27	31-1/8"	31-3/16"	31-1/4"
13	14-1/2"	14-9/16"	14-5/8"	28	32-5/16"	32-3/8"	32-7/16"
14	15-11/16"	15-3/4"	15-13/16"	29	33-1/2"	33-9/16"	33-5/8"
15	16-7/8"	16-15/16"	17"	30	34-11/16"	34-3/4"	34-13/16"
16	18-1/16"	18-1/8"	18-3/16"	31	35-7/8"	35-15/16"	36"

PEDS & TREADS®



McNICHOLS PEDS & TREADS® Heavy-Duty Welded Steel Grating satisfies both ADA and AASHTO (American Association of State Hwy. and Trans. Officials) requirements. It is ideal for parking garages, sidewalks, and pedestrian accessible roadways where ventilation or drainage is required.

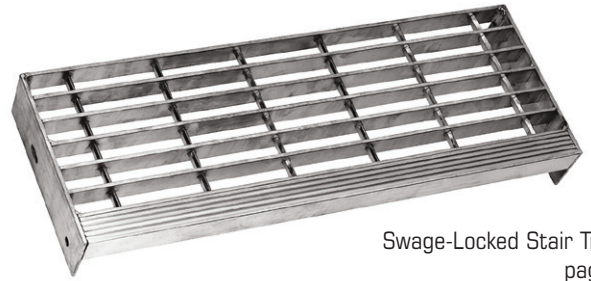
SWAGE-LOCKED BAR GRATING

McNICHOLS® Swage-Locked Bar Grating is manufactured using an exclusive swaging (or pinching) and forming process that prevents the cross bars from turning or twisting. These Aluminum-only panels are available in Rectangular Bar, Flush Top, I-Bar, and T-Bar styles in a variety of bar heights.



GAL SERIES

McNICHOLS® GAL Series Grating is an economical solution for applications requiring high strength and rigidity. GAL Series is lightweight and corrosion-resistant.



Swage-Locked Stair Treads
page 32

PRODUCT OPTIONS

Material: Aluminum
Bar Height: 1" to 2" (2-1/4" and 2-1/2" Special Order)
Bar Thickness: 1/8", 3/16" (Rectangular)
Surface: Smooth, Serrated
Standard Size: 24" x 240", 24" x 288", 36" x 240", 36" x 288"

LOAD TABLE: GAL (ALUMINUM)

BEARING BAR SIZE		SPAN (1-3/16" CENTER TO CENTER BAR SPACING)											
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	
1" x 1/8"	U	421	269	187	137	105	83	U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load - Lbs./Square Foot of Width at Mid Span					
	D	.144	.225	.324	.441	.576	.729						
	C	421	337	281	241	211	187						
	D	.115	.180	.259	.353	.461	.583						
1" x 3/16"	U	632	404	281	206	158	125	For Serrated Grating, use loading values 1/4" less than your actual bearing bar height selection.					
	D	.144	.225	.324	.441	.576	.729						
	C	632	505	421	361	316	281						
	D	.115	.180	.259	.353	.461	.583						
1-1/4" x 1/8"	U	658	421	292	215	164	130	105	87	73			
	D	.115	.180	.259	.353	.461	.583	.720	.871	1.037			
	C	658	526	439	376	329	292	263	239	219			
	D	.092	.144	.207	.282	.369	.467	.576	.697	.829			
1-1/4" x 3/16"	U	987	632	439	322	247	195	158	130	110	81		
	D	.115	.180	.259	.353	.461	.583	.720	.871	1.037	1.411		
	C	987	789	658	564	493	439	395	359	329	282		
	D	.092	.144	.207	.282	.369	.467	.576	.697	.829	1.129		
1-1/2" x 1/8"	U	947	606	421	309	237	187	152	125	105	77	59	
	D	.096	.150	.216	.294	.384	.486	.600	.726	.846	1.176	1.536	
	C	947	758	632	541	474	421	379	344	316	271	237	
	D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.941	1.229	
1-1/2" x 3/16"	U	1421	909	632	464	355	281	227	188	158	116	89	
	D	.096	.150	.216	.294	.384	.486	.600	.726	.864	1.176	1.536	
	C	1421	1137	947	812	711	632	568	517	474	406	355	
	D	.077	.120	.173	.235	.307	.389	.480	.581	.691	.941	1.229	
1-3/4" x 3/16"	U	1934	1238	860	632	484	382	309	256	215	158	121	
	D	.082	.129	.185	.252	.329	.417	.514	.622	.741	1.008	1.317	
	C	1934	1547	1289	1105	967	860	774	703	645	553	484	
	D	.066	.103	.148	.202	.263	.333	.411	.498	.592	.806	1.053	
2" x 3/16"	U	2526	1617	1123	825	632	499	404	334	281	206	158	
	D	.072	.113	.162	.221	.288	.365	.450	.545	.648	.882	1.152	
	C	2526	2021	1684	1444	1263	1123	1011	919	842	722	632	
	D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.706	.922	
2-1/4" x 3/16"	U	3197	2046	1421	1044	799	632	512	423	355	261	200	
	D	.064	.100	.144	.196	.256	.324	.400	.484	.576	.784	1.024	
	C	3197	2558	2132	1827	1599	1421	1279	1163	1066	914	799	
	D	.051	.080	.115	.157	.205	.259	.320	.387	.461	.627	.819	
2-1/2" x 3/16"	U	3947	2526	1754	1289	987	780	632	522	439	322	247	
	D	.058	.090	.130	.176	.230	.292	.360	.436	.518	.706	.922	
	C	3947	3158	2632	2256	1974	1754	1579	1435	1316	1128	987	
	D	.046	.072	.104	.141	.184	.233	.288	.348	.415	.564	.739	

Spans shaded in blue produce a deflection of 1/4" or less under a uniform load of 100 lbs. per square foot. This deflection is recommended as the maximum to provide pedestrian comfort. It can be exceeded at the discretion of the engineer.

This technical information provided is as a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating. Not recommended for wheel traffic or barefoot pedestrians.

BAR SPACING: GAL

BAR SPACING	GAL (19-S-4)		GAL-2 (19-S-2)	
	Diagram	Series	Diagram	Series
Diagram				
Diagram				
BEARING BAR SIZE	SERIES	#/SF	SERIES	#/SF
1" x 1/8"	GAL-100-A	1.8	GAL-100-A-2	2.0
1" x 3/16"	GAL-100	2.6	GAL-100-2	2.8
1-1/4" x 1/8"	GAL-125-A	2.1	GAL-125-A-2	2.4
1-1/4" x 3/16"	GAL-125	3.2	GAL-125-2	3.5
1-1/2" x 1/8"	GAL-150-A	2.5	GAL-150-A-2	2.8
1-1/2" x 3/16"	GAL-150	3.8	GAL-150-2	3.9
1-3/4" x 3/16"	GAL-175	4.3	GAL-175-2	4.4
2" x 3/16"	GAL-200	4.9	GAL-200-2	5.0
2-1/4" x 3/16"	GAL-225	5.3	GAL-225-2	5.6
2-1/2" x 3/16"	GAL-250	5.8	GAL-250-2	6.1

WIDTHS: GAL

# BARS	GAL	# BARS	GAL
RECTANGULAR	RECTANGULAR	RECTANGULAR	RECTANGULAR
2	1-3/8"	22	25-1/8"
3	2-9/16"	23	26-5/16"
4	3-3/4"	24	27-1/2"
5	4-15/16"	25	28-11/16"
6	6-1/8"	26	29-7/8"
7	7-5/16"	27	31-1/16"
8	8-1/2"	28	32-1/4"
9	9-11/16"	29	33-7/16"
10	10-7/8"	30	34-5/8"
11	12-1/16"	31	35-13/16"
12	13-1/4"	32	PLEASE NOTE: Deduct 1/16" from widths shown for 1/8" bearing bars.
13	14-7/16"	33	
14	15-5/8"	34	
15	16-13/16"	35	
16	18"	36	
17	19-3/16"	37	
18	20-3/8"	38	
19	21-9/16"	39	
20	22-3/4"	40	
21	23-15/16"	--	



SFT SERIES

SFT SERIES

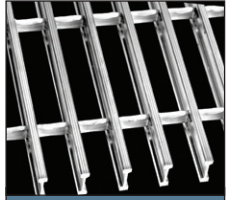
McNICHOLS® SFT Series Grating has cross bars flush with the bearing bars along the top and is the product of choice where standing and walking comfort is a requirement.

CLIPS & FASTENERS

Type CB	Type GFS	Type GG
Type Z	Type J	Type RSSGC1C

A complete list of Clips and Fasteners is available on page 50.

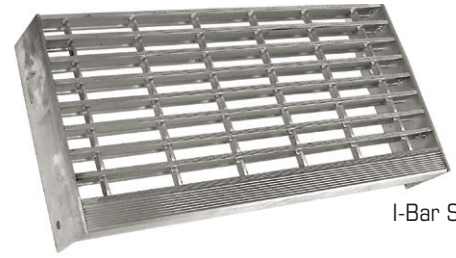
SWAGE-LOCKED BAR GRATING (CONTINUED)



GIA SERIES

GIA SERIES

McNICHOLS® GIA Series I-Bar Grating has I-shaped bearing bars that are locked in place by swaging the cross bars. This Grating series is an economical solution for applications requiring high strength and rigidity and is ideal for light pedestrian traffic. Made of Aluminum, this series is also lightweight and corrosion-resistant.

I-Bar Stair Treads
page 32

PRODUCT OPTIONS

Material: Aluminum
 Bar Height: 1" to 2" (2-1/4", 2-1/2" Special Order)
 Bar Thickness: 1/4" (I-Bar)
 Surface: Grooved
 Standard Size: 24" x 240", 24" x 288", 36" x 240", 36" x 288"

LOAD TABLE: GIA, SGIA (ALUMINUM)

BEARING BAR SIZE	SPAN (1-3/16" CENTER TO CENTER BAR SPACING)										
	2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'
1" I-Bar	U 632	404	281	206	158	125	To determine load for SGIA or SGIA-2, multiply value at left by the load factor of 1.27. Deflection under the factored loads will be same as shown in the load table.				
	D .144	.225	.324	.441	.576	.729					
	C 632	505	421	361	316	281					
	D .115	.180	.259	.353	.461	.583					
1-1/4" I-Bar	U 987	632	439	322	247	195	158	130	110	81	
	D .115	.180	.259	.353	.461	.583	.720	.871	1.037	1.411	
	C 987	789	658	564	493	439	395	359	329	282	
	D .092	.144	.207	.282	.368	.467	.576	.697	.829	1.129	
1-1/2" I-Bar	U 1421	909	632	464	355	281	227	188	158	116	89
	D .096	.150	.216	.294	.384	.486	.600	.726	.864	1.176	1.536
	C 1421	1137	947	812	711	632	568	517	474	406	355
	D .077	.120	.173	.235	.307	.389	.480	.581	.691	.941	1.229
1-3/4" I-Bar	U 1934	1238	860	632	484	382	309	256	215	158	121
	D .082	.129	.185	.252	.329	.417	.514	.622	.741	1.008	1.317
	C 1934	1547	1289	1105	967	860	774	703	645	553	484
	D .066	.103	.148	.202	.263	.333	.411	.498	.592	.806	1.053
2" I-Bar	U 2526	1617	1123	825	632	499	404	334	281	206	158
	D .072	.113	.162	.221	.288	.365	.450	.545	.648	.882	1.152
	C 2526	2021	1684	1444	1263	1123	1011	919	842	722	632
	D .058	.090	.130	.176	.230	.292	.360	.436	.518	.706	.922
2-1/4" I-Bar	U 3197	2046	1421	1044	799	632	512	423	355	261	200
	D .064	.100	.144	.196	.256	.324	.400	.484	.576	.784	1.024
	C 3197	2558	2132	1827	1599	1421	1279	1163	1066	914	799
	D .051	.080	.115	.157	.205	.259	.320	.387	.461	.627	.819
2-1/2" I-Bar	U 3947	2526	1754	1289	987	780	632	522	439	322	247
	D .058	.090	.130	.176	.230	.292	.360	.436	.518	.706	.922
	C 3947	3158	2632	2256	1974	1754	1579	1435	1316	1128	987
	D .046	.072	.104	.141	.184	.233	.288	.348	.415	.564	.737

Spans shaded in blue produce a deflection of 1/4" or less under a uniform load of 100 lbs. per square foot. This deflection is recommended as the maximum to provide pedestrian comfort. It can be exceeded at the discretion of the engineer.

This technical information provided is as a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. **McNICHOLS** shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating. Not recommended for wheel traffic or barefoot pedestrians.

BAR SPACING: GIA, SGIA

	GIA (19-SI-4)	GIA-2 (19-SI-2)	SGIA (15-SI-4)	SGIA-2 (15-SI-2)				
BAR SPACING								
END VIEW								
BEARING BAR SIZE	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF
1" x 1/4"	GIA-100	2.0	GIA-100-2	2.1	SGIA-100	2.3	SGIA-100-2	2.5
1-1/4" x 1/4"	GIA-125	2.3	GIA-125-2	2.5	SGIA-125	2.8	SGIA-125-2	2.9
1-1/2" x 1/4"	GIA-150	2.6	GIA-150-2	2.8	SGIA-150	3.2	SGIA-150-2	3.4
1-3/4" x 1/4"	GIA-175	3.0	GIA-175-2	3.3	SGIA-175	3.7	SGIA-175-2	3.9
2" x 1/4"	GIA-200	3.4	GIA-200-2	3.7	SGIA-200	4.2	SGIA-200-2	4.4
2-1/4" x 1/4"	GIA-225	3.8	GIA-225-2	4.0	SGIA-225	4.6	SGIA-225-2	4.9
2-1/2" x 1/4"	GIA-250	4.0	GIA-250-2	4.2	SGIA-250	4.9	SGIA-250-2	5.1

PANEL WIDTHS: GIA, SGIA

#BARS	GIA, GIA-2	SGIA	#BARS	GIA, GIA-2	SGIA	#BARS	GIA, GIA-2	SGIA
1	1-7/16"	1-3/16"	14	16-7/8"	13-3/8"	27	32-5/16"	25-9/16"
2	2-5/8"	2-1/8"	15	18-1/16"	14-5/16"	28	33-1/2"	26-1/2"
3	3-13/16"	3-1/16"	16	19-1/4"	15-1/4"	29	34-11/16"	27-7/16"
4	5"	4"	17	20-7/16"	16-3/16"	30	35-7/8"	28-3/8"
5	6-3/16"	4-15/16"	18	21-5/8"	17-1/8"	31	--	29-5/16"
6	7-3/8"	5-7/8"	19	22-13/16"	18-1/16"	32	--	30-1/4"
7	8-9/16"	6-13/16"	20	24"	19"	33	--	31-3/16"
8	9-3/4"	7-3/4"	21	25-3/16"	19-15/16"	34	--	32-1/8"
9	10-15/16"	8-11/16"	22	26-3/8"	20-7/8"	35	--	33-1/16"
10	12-1/8"	9-5/8"	23	27-9/16"	21-13/16"	36	--	34"
11	13-5/16"	10-9/16"	24	28-3/4"	22-3/4"	37	--	34-15/16"
12	14-1/2"	11-1/2"	25	29-15/16"	23-11/16"	38	--	35-7/8"
13	15-11/16"	12-7/16"	26	31-1/8"	24-5/8"	--	--	--



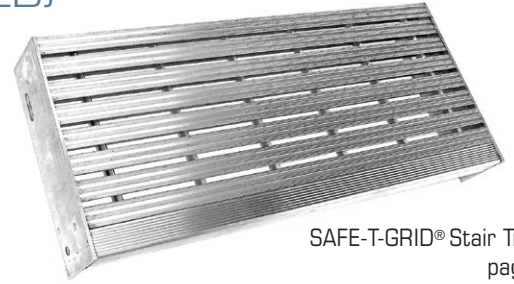
McNICHOLS® Bar Grating, GAL-150 - Stair Treads, Margarido House, Oakland, CA

SWAGE-LOCKED BAR GRATING (CONTINUED)



SAFE-T-GRID®

McNICHOLS SAFE-T-GRID® Grating is configured with extruded T-shaped bearing bars and extruded cross bars that are locked together by swaging for a high strength and rigid construction. The large T-Bar surface makes it ideal for pedestrian traffic. TB-940 meets the spacing requirements of the Americans with Disabilities Act (ADA).



SAFE-T-GRID® Stair Treads
page 32

PRODUCT OPTIONS

Material:	Aluminum
Bar Height:	1", 1-1/4", 1-1/2" [2" Special]
Surface:	Grooved (GRIP TIGHT® Available)
Standard Size:	36-1/4" x 288" TB-626 (Special Order) 36-9/16" x 288" TB-940 (ADA Approved)

LOAD TABLE: SAFE-T-GRID® (ALUMINUM)

HEIGHT	TYPE		2'	2' 6"	3'	3' 6"	4'	4' 6"	5'	5' 6"	6'	6' 6"	7'	7' 6"	8'
1"	TB-626	U	990	634	440	323	248	196	158	131	110	94	81	70	62
		D	.136	.212	.305	.415	.544	.688	.846	1.027	1.221	1.437	1.666	1.897	2.175
		C	990	792	660	566	495	440	396	360	330	305	283	264	248
		D	.109	.170	.244	.333	.434	.549	.678	.821	.977	1.148	1.330	1.526	1.740
1"	TB-940	U	1051	673	467	343	263	208	168	139	117	100	86	75	66
		D	.125	.195	.281	.382	.500	.633	.779	.944	1.125	1.325	1.532	1.761	2.006
		C	1051	841	701	601	526	467	420	382	350	323	300	280	263
		D	.100	.156	.225	.306	.400	.505	.623	.755	.898	1.053	1.222	1.403	1.599
1-1/4"	TB-626	U	1516	970	674	495	379	299	243	200	168	144	124	108	95
		D	.108	.169	.243	.331	.432	.546	.676	.815	.969	1.145	1.326	1.522	1.733
		C	1516	1213	1011	866	758	674	606	551	505	466	433	404	379
		D	.086	.135	.194	.265	.346	.438	.540	.653	.777	.912	1.058	1.214	1.382
1-1/4"	TB-940	U	1738	1112	773	568	435	343	278	230	193	165	142	124	109
		D	.097	.151	.218	.297	.387	.489	.605	.732	.870	1.025	1.186	1.365	1.553
		C	1738	1391	1159	993	869	773	695	632	579	535	497	464	435
		D	.077	.121	.174	.237	.310	.392	.484	.585	.696	.818	.949	1.090	1.240
1-1/2"	TB-626	U	2021	1293	898	660	505	399	323	267	225	191	165	144	126
		D	.091	.142	.205	.279	.364	.461	.569	.689	.822	.961	1.117	1.284	1.455
		C	2021	1617	1347	1155	1011	898	808	735	674	622	577	539	505
		D	.073	.114	.164	.223	.292	.369	.455	.551	.657	.770	.892	1.025	1.166
1-1/2"	TB-940	U	2344	1500	1042	766	586	463	375	310	260	222	191	167	147
		D	.082	.128	.184	.251	.327	.414	.512	.619	.736	.865	1.001	1.153	1.314
		C	2344	1876	1563	1340	1172	1042	938	853	781	721	670	625	586
		D	.065	.102	.147	.201	.262	.332	.410	.496	.589	.692	.803	.921	1.048
2"	TB-626	U	3173	2031	1410	1036	793	627	508	420	353	300	259	226	198
		D	.069	.108	.156	.212	.277	.351	.434	.525	.625	.731	.849	.977	1.108
		C	3173	2538	2115	1813	1587	1410	1269	1154	1058	976	907	846	793
		D	.055	.087	.125	.170	.222	.281	.347	.420	.499	.586	.680	.780	.887
2"	TB-940	U	3719	2380	1653	1214	930	735	595	492	413	352	304	264	232
		D	.063	.098	.141	.192	.251	.318	.392	.475	.565	.663	.770	.881	1.003
		C	3719	2975	2479	2125	1859	1653	1488	1352	1240	1144	1063	992	930
		D	.050	.078	.113	.154	.201	.254	.314	.380	.452	.530	.616	.707	.804

Spans shaded in blue produce a deflection of 1/4" or less under a uniform load of 100 lbs. per square foot. This deflection is recommended as the maximum to provide pedestrian comfort. It can be exceeded at the discretion of the engineer.

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BAR SPACING: SAFE-T-GRID®

	TB-626 (19-S-4)					TB-940 (19-S-4)				
BAR SPACING										
END VIEW										
BEARING BAR HEIGHT	BAR THICKNESS	BAR SPACING	#/SF	WIDTHS		BAR THICKNESS	BAR SPACING	#/SF	WIDTHS	
1"	0.626"	.5615"	2.6	36-1/4"		0.940"	.2475"	3.0	36-9/16"	
1-1/4"	0.626"	.5615"	3.1	36-1/4"		0.940"	.2475"	4.0	36-9/16"	
1-1/2"	0.626"	.5615"	3.3	36-1/4"		0.940"	.2475"	4.3	36-9/16"	
2"	0.626"	.5615"	3.8	36-1/4"		0.940"	.2475"	4.8	36-9/16"	



McNICHOLS SAFE-T-GRID® - Pedestrian Entryway Flooring



McNICHOLS SAFE-T-GRID® - Stair Treads with Round Hole Perforated Metal Stair Risers, Apartment Houses, St. Petersburg, FL

PRESS-LOCKED BAR GRATING

McNICHOLS® Press-Locked Bar Grating cross bars and bearing bars are notched and pressed together through a high-pressure manufacturing process. The result is a bi-directional flush surface that assures a firm, rigid connection and is aesthetically appealing for architectural applications.



GCM SERIES



GAA SERIES

GCM (CLOSE MESH) & GAA SERIES

McNICHOLS® Press-Locked GCM Series CLOSE MESH Grating is formed by pressing the cross bars and bearing bars together through a high-pressure process. The GCM Series Grating offers bearing bar spacings that are ADA compliant. GCM-1 Grating, a good choice for ADA applications, is stocked in 1" x 3/16", 1-1/4" x 3/16" and 1-1/2" bearing bars in both Carbon Steel and Aluminum. Other sizes of the GCM-1 material available as Special Order items, including 1/8" and 3/16" bearing bar thicknesses. Other GCM Series and GAA Grating are also available as a Special Order.

McNICHOLS® Press-Locked GAA Series Grating is formed by pressing the cross bars into the bearing bars, flush top under tremendous pressure, laterally displacing 1/16" of cross bar material into the dovetail slot.

PRODUCT OPTIONS

Material:	Aluminum, Carbon Steel, Galvanized Steel, Stainless Steel
Bar Height:	3/4" to 2-1/2" (1", 1-1/4" and 1-1/2" Stock; All other sizes available by Special Order)
Bar Thickness:	3/16" - Rectangular (1/8" Special Order)
Surface:	Smooth, Serrated
Standard Size:	36" x 144"

LOAD TABLE: GCM-1 (ALUMINUM)

BEARING BAR SIZE	SPAN (7/16" CENTER TO CENTER BAR SPACING)															
	1'	1'6"	2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	
3/4" x 3/16"	U 3657	1714	964	617	429	315	241	190	154	127	107	91	79	69	60	
	D .048	.108	.192	.300	.432	.588	.768	.970	1.198	1.446	1.726	2.022	2.360	2.717	3.058	
	C 1928	1286	964	771	643	551	482	429	386	351	321	297	275	257	241	
	D .038	.086	.154	.240	.346	.470	.614	.778	.961	1.163	1.381	1.624	1.878	2.159	2.457	
1" x 3/16"	U 6857	3047	1714	1097	762	560	429	339	274	227	190	162	140	122	107	
	D .036	.081	.144	.225	.324	.441	.577	.730	.899	1.090	1.293	1.518	1.765	2.026	2.301	
	C 3428	2286	1714	1371	1143	980	857	762	686	623	571	527	490	457	429	
	D .029	.065	.115	.180	.259	.353	.461	.583	.720	.871	1.036	1.216	1.412	1.619	1.845	
1-1/4" x 3/16"	U 10714	4762	2679	1714	1190	875	670	529	429	354	298	254	219	190	167	
	D .029	.065	.115	.180	.259	.353	.461	.583	.721	.871	1.038	1.219	1.413	1.616	1.839	
	C 5357	3571	2679	2143	1786	1531	1339	1190	1071	974	893	824	765	714	670	
	D .023	.052	.092	.144	.207	.282	.369	.466	.576	.697	.830	.973	1.128	1.295	1.475	
1-1/2" x 3/16"	U 15429	6857	3857	2469	1714	1259	964	762	617	510	429	365	315	274	241	
	D .024	.054	.096	.150	.216	.294	.384	.486	.600	.726	.865	1.014	1.177	1.349	1.536	
	C 7714	5143	3857	3086	2571	2204	1929	1714	1543	1403	1286	1187	1102	1029	964	
	D .019	.043	.077	.120	.173	.235	.307	.389	.480	.581	.691	.811	.941	1.080	1.228	
1-3/4" x 3/16"	U 21000	9333	5250	3360	2333	1714	1313	1037	840	694	583	497	430	373	328	
	D .021	.046	.082	.129	.185	.252	.329	.417	.514	.622	.740	.869	1.009	1.156	1.316	
	C 10500	7000	5250	4200	3500	3000	2625	2333	2100	1909	1750	1615	1500	1400	1313	
	D .016	.037	.066	.103	.148	.202	.263	.333	.411	.498	.592	.695	.806	.926	1.054	
2" x 3/16"	U 27429	12191	6857	4389	3048	2239	1714	1355	1097	907	762	649	560	488	429	
	D .018	.041	.072	.113	.162	.220	.288	.365	.450	.545	.648	.760	.882	1.013	1.153	
	C 13714	9143	6857	5486	4571	3918	3429	3048	2743	2494	2286	2110	1959	1829	1714	
	D .014	.032	.058	.090	.130	.176	.230	.292	.360	.436	.518	.608	.706	.810	.921	

LOAD TABLE: GCM-1 (STEEL)

BEARING BAR SIZE	SPAN (7/16" CENTER TO CENTER BAR SPACING)															
	1'	1'6"	2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	
3/4" x 3/16"	U 5785	2571	1446	926	643	472	362	286	231	191	161	137	118	103	90	
	D .025	.056	.099	.155	.224	.304	.398	.503	.620	.750	.895	1.049	1.216	1.399	1.582	
	C 2893	1928	1446	1157	964	826	723	643	579	526	482	445	413	386	362	
	D .020	.045	.079	.124	.179	.243	.318	.402	.497	.601	.715	.839	.973	1.118	1.273	
1" x 3/16"	U 10285	4571	2571	1646	1143	840	643	508	411	340	286	243	210	183	161	
	D .019	.042	.074	.116	.168	.228	.298	.377	.465	.563	.671	.785	.913	1.048	1.194	
	C 5143	3428	2571	2057	1714	1469	1286	1143	1029	935	857	791	735	686	643	
	D .015	.034	.060	.093	.134	.182	.238	.302	.373	.451	.536	.629	.730	.838	.954	
1-1/4" x 3/16"	U 16072	7143	4018	2571	1786	1312	1004	794	643	531	446	380	328	286	251	
	D .015	.034	.060	.093	.134	.182	.238	.302	.372	.450	.536	.629	.730	.839	.953	
	C 8036	5357	4018	3214	2679	2296	2009	1786	1607	1461	1339	1236	1148	1071	1004	
	D .012	.027	.048	.074	.107	.146	.191	.241	.296	.360	.429	.503	.584	.670	.762	
1-1/2" x 3/16"	U 23143	10286	5786	3703	2571	1889	1446	1143	926	765	643	548	472	411	362	
	D .012	.028	.050	.078	.112	.152	.199	.251	.310	.375	.447	.525	.608	.698	.795	
	C 11572	7714	5786	4629	3857	3306	2893	2571	2314	2104	1929	1780	1653	1543	1446	
	D .010	.022	.040	.062	.089	.122	.159	.201	.248	.300	.358	.420	.487	.559	.635	
1-3/4" x 3/16"	U 31500	14000	7875	5040	3550	2571	1969	1556	1260	1041	875	746	643	560	492	
	D .011	.024	.043	.067	.096	.130	.170	.216	.266	.322	.383	.450	.521	.599	.681	
	C 15750	10500	7875	6300	5250	4500	3938	3500	3150	2864	2625	2423	2250	2100	1969	
	D .009	.019	.034	.053	.077	.104	.136	.172	.213	.258	.306	.360	.417	.479	.545	
2" x 3/16"	U 41143	18286	10286	6583	4571	3359	2571	2032	1646	1360	1143	974	840	731	643	
	D .009	.021	.037	.058	.084	.114	.149	.189	.233	.282	.335	.393	.456	.523	.596	
	C 20572	13714	10286	8229	6857	5878	5143	4571	4114	3740	3429	3165	2939	2743	2571	
	D .007	.017	.030	.047	.067	.091	.119	.151	.186	.225	.268	.315	.365	.419	.477	

U - Uniform Load - Lbs./Sq. Ft. D - Deflection - in Inches C - Concentrated Load - Lbs./Sq. Ft. of Width at Mid Span

Load table for other sizes are available upon request.

BAR SPACING: GCM, GAA

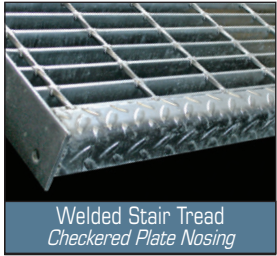
	GCM-1 (7-P-4)		GCM-2 (8-P-4)		GCM-4 (11-P-4)		GAA (19-P-4)	
BAR SPACING								
END VIEW								
BEARING BAR SIZE	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF
3/4" x 1/8"	--	--	GCM-2-75-A	8.6	--	--	GAA-75-A	4.4
3/4" x 3/16"	GCM-1-75	13.7	GCM-2-75	12.3	GCM-4-75	9.0	GAA-75	5.7
1" x 1/8"	--	--	GCM-2-100-A	11.5	--	--	GAA-100-A	5.2
1" x 3/16"	GCM-1-100	18.1	GCM-2-100	16.5	GCM-4-100	11.9	GAA-100	7.5
1-1/4" x 1/8"	--	--	GCM-2-125-A	14.2	--	--	GAA-125-A	6.3
1-1/4" x 3/16"	GCM-1-125	22.6	GCM-2-125	20.7	GCM-4-125	14.8	GAA-125	9.1
1-1/2" x 1/8"	--	--	GCM-2-150-A	17.2	--	--	GAA-150-A	7.6
1-1/2" x 3/16"	GCM-1-150	27.2	GCM-2-150	25.0	GCM-4-150	17.8	GAA-150	11.0
1-3/4" x 3/16"	GCM-1-175	31.6	GCM-2-175	29.4	GCM-4-175	20.8	GAA-175	12.7
2" x 3/16"	GCM-1-200	36.2	GCM-2-200	33.2	GCM-4-200	23.8	GAA-200	14.3
2-1/4" x 3/16"	GCM-1-225	40.1	GCM-2-225	37.3	GCM-4-225	26.5	GAA-225	16.0
2-1/2" x 3/16"	--	--	GCM-2-250	41.4	GCM-4-250	29.3	GAA-250	17.7

PANEL WIDTHS: GCM, GAA

#BARS	GCM-1	GCM-2	GCM-4	GAA	#BARS	GCM-1	GCM-2	GCM-4	GAA		
2	PLEASE NOTE: GCM-1 also available in widths up to 83 bars, GCM-2 available in widths up to 72 bars, GCM-4 available in widths up to 52 bars.				1	3-8"	18	7-5/8"	8-11/16"	11-5/8"	20-3/8"
3					2	9-1/6"	19	8-1/16"	9-3/16"	12-9/16"	21-9/16"
4					3	3-3/4"	20	8-1/2"	9-11/16"	13-1/4"	22-3/4"
5	Wider areas will be made in two or more panels. Panels are available up to 48" by special order. All other widths are cut-to-size. Deduct 1/16" from width for 1/8" bearing bars.				4	4-15/16"	21	8-15/16"	10-3/16"	13-15/16"	23-15/16"
6					5	6-1/8"	22	9-3/8"	10-11/16"	14-5/8"	25-1/8"
7					6	7-5/16"	23	9-13/16"	11-3/16"	15-5/16"	26-15/16"
8	Width and length tolerance ± 1/4"				7	8-1/2"	24	10-1/4"	11-11/16"	16"	27-1/2"
9					8	9-11/16"	25	10-11/16"	12-3/16"	16-11/16"	28-11/16"
10					9	4-1/8"	26	11-1/8"	12-11/16"	17-3/8"	29-7/8"
11	4-9/16"	5-3/16"	7-1/16"	12-11/16"	10	7-8"	27	11-9/16"	13-3/16"	18-1/16"	31-1/16"
12	5"	5-11/16"	7-3/4"	13-1/4"	11	5"	28	12"	13-11/16"	18-3/4"	32-1/4"
13	5-7/16"	6-3/16"	8-7/16"	14-7/16"	12	5-7/8"	29	12-7/16"	14-3/16"	19-7/16"	33-7/16"
14	5-7/8"	6-11/16"	9-1/8"	15-5/8"	30	12-7/8"	14-11/16"	20-1/8"	34-5/8"		
15	6-5/16"	7-3/16"	9-13/16"	16-3/16"	31	13-5/16"	15-3/16"	20-13/16"	35-13/16"		
16	6-3/4"	7-11/16"	10-1/2"	18"	32	13-3/4"	15-11/16"	21-1/2"	--		
17	7-3/16"	8-3/16"	11-3/16"	19-3/16"	--	--	--	--	--		

BAR GRATING STAIR TREADS

McNICHOLS® Bar Grating Stair Treads are a top choice for strength, safety, and long-term cost savings. Below are just some of the most popular selections. We also have many Stair Treads **IN STOCK AND READY TO GO!**



Welded Stair Tread
Checkered Plate Nosing



Heavy-Duty Welded Stair Tread
Cast Abrasive Nosing



Swage-Locked Stair Tread
Corrugated Angle Nosing



I-Bar Stair Tread
Corrugated Angle Nosing



SAFE-T-GRID® Stair Tread
Corrugated Angle Nosing

GW SERIES

McNICHOLS® Welded GW Series Grating Stair Treads will handle most moderate loads and light wheel traffic with standard bearing bar centers of 1-3/16". For more details on GW Series Grating, please see page 26.

GHB SERIES

McNICHOLS® Heavy-Duty Welded GHB Series Grating Stair Treads can handle heavier load requirements with a bearing bar thickness of 1/4" and bar heights from 1" to 3". For more details on GHB Series Grating, please see page 27.

GAL SERIES

McNICHOLS® Swage-Locked GAL Series Grating Stair Treads are an economical solution for applications requiring high strength and rigidity. GAL Series is lightweight and corrosion-resistant. For more details on GAL Series Grating, please see page 28.

GIA SERIES

McNICHOLS® Swage-Locked GIA Series I-Bar Grating Stair Treads are an economical solution for applications requiring high strength and rigidity. GIA Series Stair Treads are lightweight and corrosion-resistant. For more details on GIA Series Grating, please see page 29.

SAFE-T-GRID®

McNICHOLS Swage-Locked SAFE-T-GRID® Grating Stair Treads offer comfort and provide a corrosion-resistant walking surface ideal for waste water treatment plants applications, pedestrian bridges, and walkways. For more details on SAFE-T-GRID® Grating, please see page 30.

PRODUCT OPTIONS

Material:	Carbon Steel, Carbon Steel (Powder Coated Black), Galvanized Steel, Stainless Steel
Bar Height:	1", 1-1/4", 1-1/2"
Bar Thickness:	1/8", 3/16" (Rectangular)
Surface:	Smooth, Serrated
Width:	8-9/16", 9-3/4", 10-15/16", 12-1/8"
Length/Span:	In stock or made to order fast!

PRODUCT OPTIONS

Material:	Carbon Steel, Carbon Steel (Powder Coated Black),
Bar Height:	1", 1-1/4", 1-1/2"
Bar Thickness:	1/4" (Rectangular)
Surface:	Smooth, Serrated
Width:	8-9/16", 9-3/4", 10-15/16", 12-1/8"
Length/Span:	In stock or made to order fast!

PRODUCT OPTIONS

Material:	Aluminum
Bar Height:	1", 1-1/4", 1-1/2", 1-3/4"
Bar Thickness:	3/16" (Rectangular)
Surface:	Smooth, Serrated
Width:	8-9/16", 9-3/4", 10-15/16", 12-1/8"
Length/Span:	In stock or made to order fast!

PRODUCT OPTIONS

Material:	Aluminum
Bar Height:	1", 1-1/4", 1-1/2", 1-3/4"
Bar Thickness:	1/4" (I-Bar)
Surface:	Grooved
Width:	8-5/8", 9-13/16", 11", 12-3/16"
Length/Span:	In stock or made to order fast!

PRODUCT OPTIONS

Material:	Aluminum
Bar Height:	1", 1-1/4", 1-1/2"
Bar Thickness:	Please see Bar Spacing chart on page 30.
Surface:	Grooved (GRIP TIGHT® Available)
Length/Span:	In stock or made to order fast! Lengths up to 42" for 1-1/2" height TB-940 only.

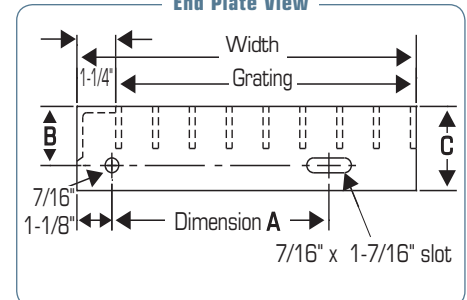
MAXIMUM STAIR TREAD SPANS

	RECTANGULAR BAR 1-3/16" CTC BB		I-BAR 1-3/16" CTC BB	
	BEARING BAR SIZE	MAXIMUM TREAD SPAN	BEARING BAR SIZE	MAX. TREAD SPAN
ALUMINUM	1" x 3/16"	28"	1" x 1/4"	28"
	1-1/4" x 3/16"	34"	1-1/4" x 1/4"	34"
	1-1/2" x 3/16"	42"	1-1/2" x 1/4"	42"
	1-3/4" x 3/16"	51"	1-3/4" x 1/4"	51"
STEEL	3/4" x 3/16"	28"	PLEASE NOTE: Maximum tread length/span based on 300 lb. concentrated load on front 5 inches of tread at center of tread length.	
	1" x 3/16"	41"		
	1-1/4" x 3/16"	56"		
	1-1/2" x 3/16"	66"		

END PLATE DIMENSIONS

GW/GAL SERIES				
WIDTH	HEIGHT	A	B	C
5", 6-3/16"	1" - 1-1/4"	2-1/2"	1-3/4"	2-1/2"
5", 6-3/16"	1-1/2" - 2-1/2"	2-1/2"	2-1/4"	3"
7-3/8", 8-9/16"	1" - 1-1/4"	4-1/2"	1-3/4"	2-1/2"
7-3/8", 8-9/16"	1-1/2" - 2-1/2"	4-1/2"	2-1/4"	3"
9-3/4", 10-15/16", 12-1/8"	1" - 1-1/4"	7"	1-3/4"	2-1/2"
9-3/4", 10-15/16", 12-1/8"	1-1/2" - 2-1/2"	7"	2-1/4"	3"

End Plate View



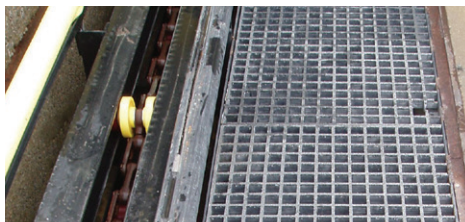
FIBERGLASS GRATING

McNICHOLS® Fiberglass Grating offers a variety of styles, strengths, resins, and bearing bar colors. Molded and Pultruded Fiberglass Grating are lightweight, corrosion-resistant, fire-retardant and can be used like traditional Metal Grating but have the inherent benefits of Fiberglass. They are ideal alternatives to Steel Gratings in corrosive environments or when frequent Grating and Walkway replacement costs are prohibitive.

PRODUCT SPECIFICATIONS

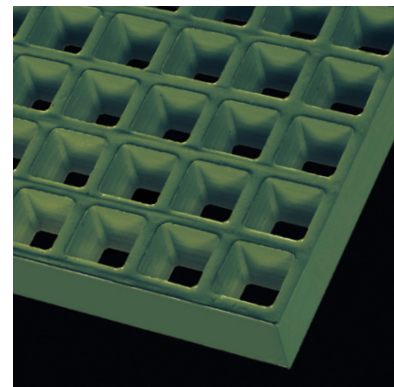
CONSTRUCTION TYPES					
	SQUARE MOLDED	RECTANGULAR MOLDED	PULTRUDED I-BAR	PULTRUDED T-BAR/WIDE T-BAR	DECKING & FLOORING
SERIES TYPE & NAME	Square Grid: MS-S, MS-M	Rectangular Grid: MS-R, MS-T-R, MS-T-COVER	MS-I-6000 - DURGRID®, MS-I-4000 - DURAGRID®, MS-T-I-6015 - DURAGRID®, MS-I-6515 - DURADEK®	MS-T-5020 - DURAGRID®, MS-WT-1810 - DURAGRID®, MS-WT-1210 - DURAGRID®, MS-WT-3810 - DURAGRID®	SAFDECK®, SAFPLANK®, SAFPLATE®
RESIN	Polyester, Vinyl Ester	Polyester, Vinyl Ester	Polyester, Vinyl Ester, Phenolic	Polyester, Vinyl Ester	Polyester
HEIGHT	1", 1-1/2", 2"	1", 1-1/2"	1", 1-1/2"	1", 1-1/2", 2"	Deck: 1-1/8" Plank: 2" Plate: 1/4", 1/2"
PRODUCT SURFACE	Concave, Grit	Concave, Grit	Fine Grit, Medium Grit, Coarse Grit	Fine Grit, Medium Grit, Coarse Grit	Grit: Vented or Solid Smooth: Vented or Solid
% OPEN AREA	72% to 44%	69% to 65%	40% to 65%	12% to 18%	0% to 4%
STANDARD PANEL SIZES	36" x 120" 48" x 96" 48" x 120" 48" x 144" 60" x 120"	36" x 120" 36" x 144" 48" x 96" 48" x 144"	36" x 240" 48" x 240"	36" x 240" 48" x 240" 48-1/8" x 144"	Deck: 24" x 240", 24" x 288" Plank: 12" & 24" x 144", 240" & 288" Plate: 48" x 96"

WE ARE READY AND **INSPIRED TO SERVE®** YOU AT 800.237.3820!



McNICHOLS® Fiberglass Grating, Molded - Flooring

FIBERGLASS RESIN CHARACTERISTICS		
RESIN	TYPE	DESCRIPTION
SPF	Polyester	Fire Retardant, Class A Flame Rating of 25 or less per ASTM E-84
SVF	Vinyl Ester	Fire Retardant, Class A Flame Rating of 25 or less per ASTM E-84
SGF	Polyester	Orthophthalic Polyester Architectural Grade, Fire Retardant, Class A Flame Rating of 25 or less per ASTM E-84
SFF	Polyester	Food Grade, Fire Retardant, Class B Flame Rating of 30 or less per ASTM E-84
SPH	Phenolic	Fire Retardant, Class A Flame Rating of 25 or less, Flame Spread Index 10, Smoke Developed Index 10, per ASTM E-84
NFR	Various Composites	Non-Fire Retardant



HOW TO ORDER/SPECIFY McNICHOLS® FIBERGLASS GRATING

The information provided below is your guide for choosing the right **McNICHOLS® FIBERGLASS GRATING** product for your project. Please specify:

APPLICATION – Fiberglass Grating use and physical requirements:

- Exposure to chemicals and/or extreme temperatures
- Fire retardant rating (*Resin Characteristics* table on this page has additional information)
- Loading, span and support requirements (product load tables in this section have additional information)

CONSTRUCTION TYPE – Molded (Square, Rectangular) or Pultruded (I-Bar, T-Bar, Wide T-Bar)

RESIN & TYPE – Type of Resin (SPF Polyester, SVF Vinyl Ester, SGF Polyester, SFF Polyester, SPH Phenolic)

COLOR – Choose Grating color (e.g. Yellow, Green, etc.)

GRID HEIGHT, SIZE & SHAPE – Molded grid height, grid pattern spacing (measured in inches) and shape (square or rectangular)

BEARING BAR SIZE, SHAPE & SPACING – Pultruded bearing bar height (measured in inches), shape (I-Bar, T-Bar, Wide T-Bar) and spacing (center to center of bearing bars, between bearing bar top flanges, and between bottom bearing bar bottom flanges)

PRODUCT SURFACE – Concave, grit (Molded) or fine, medium or coarse grit (Pultruded)

OPEN AREA – Percentage of open area

SPAN – Direction of Pultruded bearing bars or Molded grid (Rectangular pattern only)

QUANTITY/SIZE(S) – Number of panels and/or sizes (including cut-to-size pieces and stub/cut preferences)

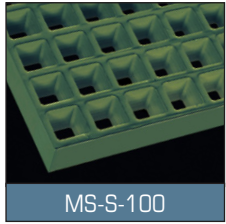
SPECIAL – Requirements like fabrication, notching, cut-outs, stair treads, EXTREN® Structural Shapes and Plate, non-standard tolerances, etc.

ACCESSORIES – Quantity and type of Clips or Fasteners/Hardware



SQUARE MOLDED FIBERGLASS GRATING

McNICHOLS® Square Molded Fiberglass Grating is the economical product of choice where corrosion resistance or fire retardancy is paramount and high impact resistance is desired. When compared to steel, this product is very lightweight but still maintains its ability to support heavy loads.



SQUARE GRID (MS-S)

McNICHOLS® Square Grid MS-S Molded Fiberglass Grating panels are corrosion-resistant and fire-retardant. An optional grit surface provides additional slip-resistant properties. Square Grid Molded Grating has an open area range from 70% to 72%, depending on the grid size.

LOAD TABLE: MS-S-100

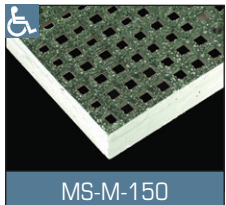
SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<0.010	<0.010	0.013	0.017	0.021	0.025	0.034	0.042	1360
	C	<0.010	0.014	0.020	0.027	0.034	0.041	0.054	0.068	680
18"	U	0.021	0.041	0.062	0.082	0.103	0.123	0.164	0.205	666
	C	0.022	0.044	0.066	0.088	0.110	0.131	0.175	0.219	500
24"	U	0.064	0.128	0.192	0.256	0.320	0.384	0.512	0.640	380
	C	0.051	0.102	0.154	0.205	0.256	0.307	0.409	0.512	380
30"	U	0.155	0.309	0.464	0.619	--	--	--	--	240
	C	0.099	0.198	0.297	0.396	0.495	0.594	--	--	300
36"	U	0.318	0.635	--	--	MS-S-100 Square Grid Size: 1-1/2" x 1-1/2"				160
	C	0.169	0.339	0.508	0.677					240

LOAD TABLE: MS-S-150

SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	0.014	0.018	3120
	C	<0.010	<0.010	<0.010	0.011	0.014	0.017	0.023	0.028	1560
18"	U	<0.010	0.014	0.021	0.028	0.036	0.043	0.057	0.071	1386
	C	<0.010	0.015	0.023	0.030	0.038	0.046	0.061	0.076	1040
24"	U	0.021	0.042	0.063	0.084	0.104	0.125	0.167	0.209	780
	C	0.017	0.033	0.050	0.067	0.084	0.100	0.134	0.167	780
30"	U	0.047	0.094	0.141	0.188	0.235	0.283	0.377	0.471	496
	C	0.030	0.060	0.090	0.121	0.151	0.181	0.241	0.301	620
36"	U	0.096	0.192	0.288	0.384	0.480	0.576	--	--	347
	C	0.051	0.102	0.154	0.205	0.256	0.307	0.410	0.512	520
42"	U	0.175	0.350	0.525	--	--	--	--	--	251
	C	0.080	0.160	0.240	0.320	0.400	0.480	0.641	0.801	440
48"	U	0.287	0.573	--	--	--	--	--	--	170
	C	0.115	0.229	0.344	0.459	0.573	0.688	--	--	340

U - Deflection Under Uniform Load Safe Load 5:1
C - Deflection Under Concentrated Load Safety Factor

MS-S-150 Square Grid Size: 1-1/2" x 1-1/2"



SQUARE GRID (MS-M)

McNICHOLS® Square Grid MS-M Molded Grating has a grid surface of 3/4" squares, while the bottom grid is made up of 1-1/2" squares. The small surface openings make it ideal for ADA applications with an open area of 44%.

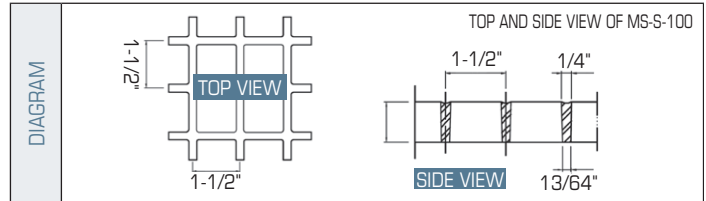
LOAD TABLE: MS-M-150

SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<0.010	<0.010	0.011	0.014	0.017	0.021	0.028	0.035	3860
	C	<0.010	0.011	0.017	0.022	0.028	0.034	0.045	0.056	1930
18"	U	0.013	0.026	0.039	0.052	0.065	0.078	0.104	0.130	1776
	C	0.014	0.028	0.042	0.056	0.070	0.084	0.112	0.139	1332
24"	U	0.025	0.050	0.075	0.100	0.126	0.151	0.201	0.251	1052
	C	0.020	0.040	0.060	0.080	0.101	0.121	0.161	0.201	1052
30"	U	0.055	0.110	0.165	0.219	0.274	0.329	0.439	0.548	632
	C	0.035	0.070	0.105	0.140	0.176	0.211	0.281	0.351	790
36"	U	0.087	0.173	0.260	0.346	0.433	0.520	0.692	--	456
	C	0.046	0.092	0.139	0.185	0.231	0.277	0.370	0.462	684
42"	U	0.150	0.300	0.450	0.600	--	--	--	--	392
	C	0.069	0.138	0.207	0.276	MS-M-150 Square Grid Size: 215				582
48"	U	0.245	0.490	0.735	--	--	--	--	--	215
	C	0.098	0.196	0.294	--	--	--	--	--	430

U - Deflection Under Uniform Load
C - Deflection Under Concentrated Load

Safe Load 5:1
Safety Factor

PRODUCT DETAILS: SQUARE GRID (MS-S)



OPTIONS	Resin:	SPF, SVF, SGF	Grid Size:	1-1/2" x 1-1/2" Square
	Color:	Dark Gray, Green, Light Gray, Yellow	Surface:	Concave, Grit
	Grid Height:	1-1/2"	Width:	48"
			Length:	144"

STOCK LIST	SERIES	HEIGHT	GRID SIZE	#/SF	% O/A	RESIN/TYPE
	MS-S-100	1"	1-1/2" x 1-1/2"	2.6	70%	For Resin Characteristics, please see page 33.
	MS-S-150	1-1/2"	1-1/2" x 1-1/2"	3.8	70%	
	MS-S-200	2"	2" x 2"	4.0	72%	

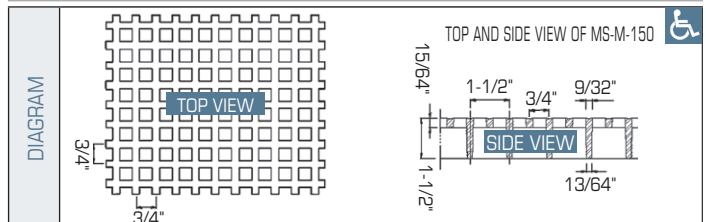
LOAD TABLE: MS-S-200

SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	4000
	C	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.013	0.016	2000
18"	U	<0.010	<0.010	0.012	0.016	0.020	0.024	0.032	0.040	1813
	C	<0.010	<0.010	0.013	0.017	0.021	0.026	0.034	0.043	1360
24"	U	0.010	0.021	0.031	0.042	0.052	0.063	0.083	0.104	960
	C	<0.010	0.017	0.025	0.033	0.042	0.050	0.067	0.083	960
30"	U	0.023	0.046	0.069	0.092	0.114	0.137	0.183	0.229	640
	C	0.015	0.029	0.044	0.059	0.073	0.088	0.117	0.146	800
36"	U	0.044	0.089	0.133	0.177	0.222	0.266	0.355	0.444	453
	C	0.024	0.047	0.071	0.095	0.118	0.142	0.189	0.237	680
42"	U	0.082	0.164	0.245	0.327	0.409	0.491	0.654	--	331
	C	0.037	0.075	0.112	0.150	0.187	0.224	0.299	0.374	580
48"	U	0.135	0.270	0.405	0.541	--	--	--	--	260
	C	0.054	0.108	0.162	0.216	0.270	0.324	0.432	0.541	520
54"	U	0.210	0.420	0.630	--	--	--	--	--	204
	C	0.075	0.149	0.224	0.298	0.373	0.448	0.597	--	460

U - Deflection Under Uniform Load Safe Load 5:1
C - Deflection Under Concentrated Load Safety Factor

MS-S-200 Square Grid Size: 2" x 2"

PRODUCT DETAILS: SQUARE GRID (MS-M)

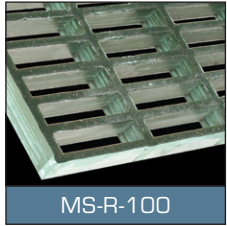


OPTIONS	Resin:	SGF	Grid Size:	Top: 3/4" x 3/4" Square Bottom: 1-1/2" x 1-1/2" Square
	Color:	Dark Grey, Green	Surface:	Grit
	Grid Height:	1-1/2"	Width:	48"
			Length:	144"

STOCK LIST	SERIES	HEIGHT	GRID SIZE	#/SF	% O/A	RESIN/TYPE
	MS-M-150	1-1/2"	3/4" x 3/4" (TOP)	4.4	40%	For Resin Characteristics, please see page 33.

RECTANGULAR MOLDED FIBERGLASS GRATING

McNICHOLS® Rectangular Grid Molded Fiberglass Grating panels are corrosion-resistant and fire-retardant. The most popular grid is 1" x 4" with a 1" grid height (1-1/2" x 6" grid is also available). We offer a variety of panel colors, resin types, and sizes from stock!



MS-R-100

RECTANGULAR GRID

McNICHOLS® Rectangular Grid Molded Fiberglass Grating Panels have a 1" x 4" or 1-1/2" x 6" rectangular grid and are corrosion-resistant and fire-retardant. The panel surface is available with a concave top or with grit for added slip resistance. Rectangular Grid has an open area range from 67% to 69% depending on the grid size.

LOAD TABLE: MS-R-100

SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<.010	<.010	<.010	.011	.014	.017	.022	.028	1960
	C	<.010	<.010	.013	.018	.022	.027	.035	.044	980
18"	U	.012	.025	.037	.049	.062	.074	.099	.123	960
	C	.013	.026	.039	.053	.066	.079	.105	.131	720
24"	U	.037	.074	.112	.149	.186	.223	.298	.372	560
	C	.030	.060	.089	.119	.149	.179	.238	.298	560
30"	U	.088	.176	.264	.352	.440	.528	--	--	336
	C	.056	.113	.169	.225	.282	.338	.451	.563	420
36"	U	.176	.353	.529	--	--	--	--	--	240
	C	.094	.188	.282	.376	.470	.564	--	--	360
42"	U	.316	.632	--	--	--	--	--	--	183
	C	.144	.289	.433	.577	--	--	--	--	320

U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 5:1
Safety FactorMS-R-100 Rectangular Grid Size:
1" x 4"

LOAD TABLE: MS-R-150

SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<.010	<.010	<.010	<.010	.011	.014	.018	.023	4272
	C	<.010	<.010	.011	.015	.018	.022	.029	.037	2136
18"	U	<.010	.018	.027	.035	.044	.053	.071	.089	1712
	C	.010	.019	.028	.038	.047	.057	.076	.095	1284
24"	U	.019	.038	.056	.075	.094	.112	.150	.188	956
	C	.015	.030	.045	.060	.075	.090	.120	.150	956
30"	U	.039	.078	.117	.156	.195	.233	.311	.389	587
	C	.025	.050	.075	.100	.125	.150	.200	.250	734
36"	U	.071	.143	.214	.285	.357	.428	--	--	385
	C	.038	.076	.114	.152	.190	.228	.304	.381	578
42"	U	.126	.252	.378	.504	.630	--	--	--	370
	C	.058	.115	.173	.230	.288	.346	.461	--	472
48"	U	.207	.414	.621	--	--	--	--	--	184
	C	.083	.160	.248	.331	.414	.497	--	--	368

U - Deflection Under Uniform Load

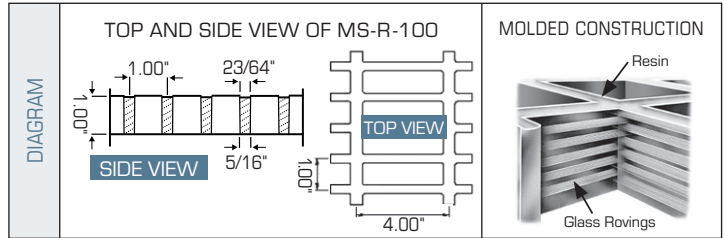
C - Deflection Under Concentrated Load

Safe Load 5:1
Safety FactorMS-R-150
Rectangular Grid Size:
1-1/2" x 6"

HOLE PRODUCT SAMPLES

NEED A SAMPLE? We are ready and
Inspired to Serve® you at **800.237.3820!**

PRODUCT DETAILS: RECTANGULAR GRID



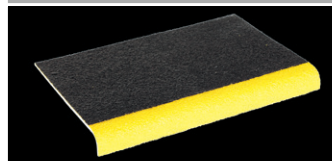
OPTIONS	Resin:	SGF, SVF	Grid Size:	1" x 4" Rectangular, 1-1/2" x 6" Rectangular
	Color:	Dark Gray	Surface:	Concave, Grit
	Grid Height:	1", 1-1/2"	Width:	36", 48"
			Length:	96", 120", 144"

STOCK LIST	SERIES	GRID HEIGHT	GRID SIZE	#/SF	% O/A
	MS-R-100	1"	1" x 4"	2.80	69%
	MS-R-150	1-1/2"	1-1/2" x 6"	3.75	67%

CLIPS & FASTENERS



A complete list of Clips and Fasteners is available on page 50.

FIBERGLASS STAIR
TREAD COVER/PANEL

MS-T-C

RESIN & TYPE	SGF Polyester
COLOR	Black with Yellow Nosing
THICKNESS	1/8"
SURFACE	Grit
LIP	2" Yellow Radius Lip
WIDTH	Stock: 9", 10" width; 8", 11", 12" width (Special Order)
LENGTH	144" Panel

FIBERGLASS MOLDED
STAIR TREAD/PANEL

MS-T-R-150

RESIN & TYPE	SGF Polyester
COLOR	Gray, Green
GRID HEIGHT	1-1/2"
GRID SIZE	1-1/2" x 6" Rectangular
SURFACE	Grit
NOSING	Integral, both sides of panel
SIZE	Stock: 22.5" width x 120" length; Nosing on 120" edges; Treads may be cut to size to width and length desired; common sizes are 7-5/8", 9-1/8" and 10-5/8"
SPAN/ DEFLECTION	31" (1/8" or less deflection) 38" (1/4" or less deflection)

PULTRUDED I-BAR FIBERGLASS GRATING

Combining corrosion resistance, long life, and a maintenance-free design, **McNICHOLS®** MS-I-6000 Series DURAGRID® Pultruded I-Bar Fiberglass Grating has I-Bar shaped bearing bars with perpendicular cross bar rods placed every 6 inches. MS-I-6515 - DURADEK® has cross rods placed every 8 inches.



MS-I-6010

MS-I-6010

McNICHOLS® MS-I-6010 - DURAGRID® I-Bar Fiberglass Grating is our most popular Pultruded product. Polyester resin panel bearing bars and cross bar colors may vary from each other. MS-I-6010 has a 1" height with an open area of 60%.

LOAD TABLE: MS-I-6010

SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	SAFE LOAD
12"	U	.002	.004	.005	.007	.009	.014	.018	.036	.054	.073	.091	10401
	C	.003	.006	.009	.012	.015	.022	.029	.058	.087	.116	.145	5200
18"	U	.008	.017	.025	.033	.042	.063	.084	.167	.251	.335	.418	4954
	C	.009	.018	.027	.036	.045	.067	.089	.179	.268	.357	.446	3716
24"	U	.025	.050	.075	.100	.124	.187	.249	.498	--	--	--	2900
	C	.020	.040	.060	.080	.100	.149	.199	.398	.597	--	--	2900
30"	U	.058	.116	.174	.231	.289	.434	.579	--	--	--	--	1856
	C	.037	.074	.111	.148	.185	.278	.370	--	--	--	--	2320
36"	U	.115	.230	.345	.460	.575	--	--	This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.				1289
	C	.061	.123	.184	.245	.307	.460	.614					1933
42"	U	.211	.422	.633	--	--	--	--	--	--	--	--	943
	C	.096	.193	.289	.386	.482	--	--	--	--	--	--	1649
48"	U	.353	.705	--	--	--	--	--	--	--	--	--	719
	C	.141	.282	.423	.564	--	--	--	--	--	--	--	1437
54"	U	.563	--	--	--	--	--	--	--	--	--	--	566
	C	.200	.400	.600	--	--	--	--	--	--	--	--	1274

U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1

Safety Factor



MS-I-6015

MS-I-6015

McNICHOLS® MS-I-6015 - DURAGRID® I-Bar Fiberglass Grating features an I-Bar shape that provides maximum flexibility in design. The polyester resin panel bearing bars and cross bar colors may vary from each other. MS-I-6015 - DURAGRID® has a 1-1/2" height with an open area of 60%.

LOAD TABLE: MS-I-6015

SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000	SAFE LOAD
12"	U	.001	.001	.002	.003	.003	.005	.006	.013	.019	.026	.032	.038	.045	17601
	C	.001	.002	.003	.004	.005	.008	.010	.020	.031	.041	.051	.061	.072	8800
18"	U	.003	.006	.009	.012	.015	.023	.030	.061	.091	.121	.152	.182	.212	7823
	C	.003	.006	.010	.013	.016	.024	.032	.065	.097	.129	.162	.194	.226	5867
24"	U	.009	.018	.027	.037	.046	.069	.091	.183	.274	.366	.457	.549	.640	4400
	C	.007	.015	.022	.029	.037	.055	.073	.146	.220	.293	.366	.439	.512	4400
30"	U	.022	.043	.065	.086	.108	.161	.215	.430	.646	--	--	--	--	2773
	C	.014	.028	.041	.055	.069	.103	.138	.276	.413	.551	--	--	--	3467
36"	U	.044	.087	.131	.175	.218	.327	.436	--	--	--	--	--	--	1896
	C	.023	.047	.070	.093	.116	.175	.233	.466	--	--	--	--	--	2845
42"	U	.079	.159	.238	.317	.396	.595	--	--	--	--	--	--	--	1361
	C	.036	.072	.109	.145	.181	.272	.362	--	--	--	--	--	--	2381
48"	U	.133	.266	.400	.533	.666	--	--	--	--	--	--	--	--	1017
	C	.053	.107	.160	.213	.266	.400	.533	--	--	--	--	--	--	2033
54"	U	.211	.422	.633	--	--	--	--	--	--	--	--	--	--	777
	C	.075	.150	.225	.300	.375	.563	--	--	--	--	--	--	--	1748

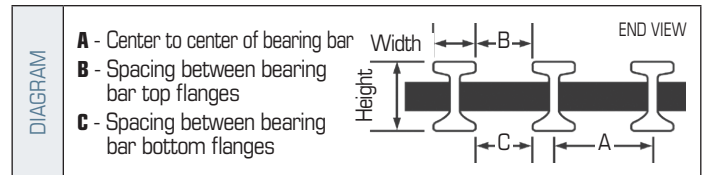
U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1

Safety Factor

PRODUCT DETAILS: I-BAR SERIES



OPTIONS	Resin:	SPF
	Color:	Gray, Yellow
	Bearing Bar Size:	1"x 0.600", 1-1/2" x 0.600"
	Surface:	Medium Grit, Fine Grit
	Width:	36", 48"
LENGTH	Length:	120", 144", 240"

STOCK LIST	SERIES	BEARING BAR SIZE	#/SF	A	B	C	% O/A
	MS-I-4000 SERIES (PAGE 37)						
	MS-I-4010	1" x 0.600"	3.4	1.000"	0.400"	0.400"	40%
	MS-I-4015	1-1/2" x 0.600"	4.2	1.000"	0.400"	0.400"	40%
	MS-I-6000 SERIES						
	MS-I-6010	1" x 0.600"	2.4	1.500"	0.900"	0.900"	60%
	MS-I-6015	1-1/2" x 0.600"	3.0	1.500"	0.900"	0.900"	60%
	MS-I-6515*	1-1/2" x 0.600"	2.7	1.710"	1.110"	1.110"	65%

*Has 8" cross bar spacing



MS-I-6515

MS-I-6515

McNICHOLS® MS-I-6515 - DURADEK® I-Bar Fiberglass Grating is economical and features the traditional I-Bar shape that gives maximum flexibility in design. The product has a 1-1/2" height with perpendicular cross bar rods placed every 8". Open area is 65%.

LOAD TABLE: MS-I-6515

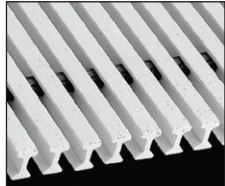
SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	SAFE LOAD
12"	U	.001	.001	.002	.003	.004	.005	.007	.015	.022	.029	.038	15439
	C	.001	.002	.004	.005	.006	.009	.012	.023	.035	.047	.058	7719
18"	U	.003	.007	.010	.014	.017	.026	.035	.069	.091	.104	.138	6862
	C	.004	.007	.011	.015	.018	.028	.037	.074	.111	.147	.184	5146
24"	U	.010	.021	.031	.042	.052	.078	.104	.209	.313	.417	.522	3860
	C	.008	.017	.025	.033	.042	.063	.083	.167	.250	.334	.417	3860
30"	U	.025	.049	.074	.098	.123	.184	.245	.491	--	--	--	2433
	C	.016	.031	.047	.063	.079	.118	.157	.314	.471	.628	--	3041
36"	U	.050	.100	.149	.199	.249	.373	.498	--	--	--	--	1663
	C	.027	.053	.080	.106	.133	.199	.265	--	--	--	--	2495
42"	U	.090	.181	.271	.361	.452	.678	--	This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.				1194
	C	.041	.083	.124	.165	.207	.310	.413					2088
48"	U	.152	.304	.456	.607	--	--	--	--	--	--	--	892
	C	.061	.121	.182	.243	.304	.456	.607	--	--	--	--	1784
54"	U	.241	.481	--	--	--	--	--	--	--	--	--	681
	C	.086	.171	.257	.342	.428	.642	--	--	--	--	--	1533
60"	U	.364	--	--	--	--	--	--	--	--	--	--	533
	C	.117	.233	.350	.467	.583	--	--	--	--	--	--	1333
66"	U	.531	--	--	--	--	--	--	--	--	--	--	425
	C	.155	.309	.464	.618	--	--	--	--	--	--	--	1170

U - Deflection Under Uniform Load

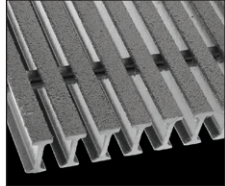
C - Deflection Under Concentrated Load

Safe Load 2:1

Safety Factor



MS-I-4010



MS-I-4015

MS-I-4010 & MS-I-4015

McNICHOLS® MS-I-4000 - DURAGRID® Series Pultruded Grating is available from stock in 240" panels with choices of two bearing bar heights (1" or 1-1/2"), 36- or 48-inch widths and a variety of colors. Please note that the polyester resin panel bearing bars and cross bar colors may vary from each other. Most items have a fine grit surface, with optional medium and coarse grit surfaces. This Series has been approved for use in Virginia Graeme Baker Pool and Spa Safety Act (VGB) applications. MS-I-4000 - DURAGRID® Series is similar to MS-I-6000 - DURAGRID® Series but has an open area of 40%.

LOAD TABLE: MS-I-4010

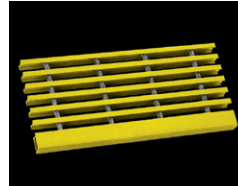
SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	5000	6000	SAFE LOAD
12"	U	.001	.002	.004	.005	.006	.009	.012	.024	.030	.036	.048	.060	.073	15600
	C	.002	.004	.006	.008	.010	.015	.019	.039	.048	.058	.077	.097	.116	7800
18"	U	.006	.011	.017	.022	.028	.042	.056	.112	.139	.167	.223	.279	.335	7431
	C	.006	.012	.018	.024	.030	.045	.060	.119	.149	.179	.238	.298	.357	5573
24"	U	.017	.033	.050	.066	.083	.124	.166	.332	.415	.498	.664	--	--	4350
	C	.013	.027	.040	.053	.066	.100	.133	.265	.332	.398	.531	.664	--	4350
30"	U	.039	.077	.116	.154	.193	.289	.386	--	--	--	--	--	--	2784
	C	.025	.049	.074	.099	.123	.185	.247	.494	.617	--	--	--	--	3480
36"	U	.077	.153	.230	.307	.383	.575	--	This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.						1933
	C	.041	.082	.123	.164	.205	.307	.409							2900
42"	U	.141	.281	.422	.563	.703	--	--	--	--	--	--	--	--	1414
	C	.064	.129	.193	.257	.321	.482	.643	--	--	--	--	--	--	2474
48"	U	.235	.470	.705	--	--	--	--	--	--	--	--	--	--	1078
	C	.094	.188	.282	.376	.470	--	--	--	--	--	--	--	--	2155

U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

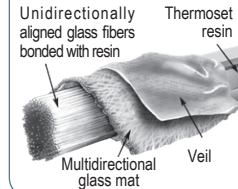
Safe Load 2:1

Safety Factor



MS-T-6015

Pultruded Construction



PULTRUDED FIBERGLASS STAIR TREAD/PANEL

RESIN & TYPE	SPF Polyester
COLOR	Gray, Yellow
BAR HEIGHT	1-1/2" I-Bar (MS-T-6015 - DURAGRID®)
SURFACE	Grit
NOSING	Integral, one side of panel
SIZE	Stock panels are 11" width x 144" length for 11" wide Treads
	Stock panels are 12-1/2" width x 144" length for 12-1/2" wide Treads
	Integral Nosing on one 144" edge
SPAN/ DEFLECTION	Treads may be cut to size to width and length desired
	40" (1/8" or less deflection, based on 300 lb. load at mid span)
	52" (1/4" or less deflection, based on 300 lb. load at mid span)

LOAD TABLE: MS-I-4015

SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	5000	6000	7000	8000	9000	SAFE LOAD
12"	U	.000	.001	.001	.002	.002	.003	.004	.009	.013	.017	.021	.026	.030	.034	.038		26400
	C	.001	.001	.002	.003	.003	.005	.007	.014	.020	.027	.034	.041	.048	.055	.061		13200
18"	U	.002	.004	.006	.008	.010	.015	.020	.040	.061	.081	.101	.121	.141	.162	.182		11734
	C	.002	.004	.006	.009	.011	.016	.022	.043	.065	.086	.108	.129	.151	.172	.194		8800
24"	U	.006	.012	.018	.024	.030	.046	.061	.122	.183	.244	.305	.366	.427	.488	.549		6600
	C	.005	.010	.015	.020	.024	.037	.049	.098	.146	.195	.244	.293	.342	.390	.439		6600
30"	U	.014	.029	.043	.057	.072	.108	.143	.287	.430	.574	.717	--	--	--	--		4160
	C	.009	.018	.028	.037	.046	.069	.092	.184	.276	.367	.459	.551	.643	--	--		5200
36"	U	.029	.058	.087	.116	.145	.218	.291	.582	--	--	--	--	--	--	--		2844
	C	.016	.031	.047	.062	.078	.116	.155	.310	.466	.621	--	--	--	--	--		4267
42"	U	.053	.106	.159	.211	.264	.396	.528	--	--	--	--	--	--	--	--		2041
	C	.024	.048	.072	.097	.121	.181	.242	.483	.725	--	--	--	--	--	--		3571
48"	U	.089	.178	.266	.355	.444	.666	--	--	--	--	--	--	--	--	--		1525
	C	.036	.071	.107	.142	.178	.266	.355	--	--	--	--	--	--	--	--		3050

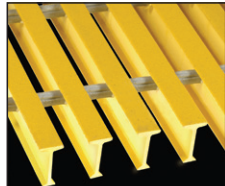
U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1

Safety Factor

PULTRUDED T-BAR FIBERGLASS GRATING



MS-T-5020

MS-T-5020

McNICHOLS® MS-T-5020 - DURAGRID® Pultruded T-Bar Fiberglass Grating is an alternative to Metal Grating if more surface area is desired. **McNICHOLS® MS-T-5020 - DURAGRID®** has a large open area of 50% with a 2" bar height.

LOAD TABLE: MS-T-5020

SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000	8000	SAFE LOAD
12"	U	.000	.001	.001	.001	.002	.003	.004	.007	.011	.014	.018	.021	.025	.028	11333
	C	.001	.001	.002	.002	.003	.004	.006	.011	.017	.023	.028	.034	.040	.045	5666
18"	U	.002	.003	.005	.007	.009	.013	.017	.035	.052	.070	.087	.104	.122	.139	7536
	C	.002	.004	.006	.007	.009	.014	.019	.037	.056	.074	.093	.111	.130	.148	5666
24"	U	.005	.011	.016	.021	.027	.040	.054	.107	.161	.214	.268	.321	.375	.429	5666
	C	.004	.009	.013	.017	.021	.032	.043	.086	.129	.171	.214	.257	.300	.343	5666
30"	U	.013	.026	.038	.051	.064	.096	.128	.256	.384	.512	.640	--	--	--	3626
	C	.008	.016	.025	.033	.041	.061	.082	.164	.246	.327	.409	.491	.573	.655	4534
36"	U	.026	.052	.078	.104	.130	.195	.260	.520	--	--	--	--	--	--	2519
	C	.014	.028	.042	.055	.069	.104	.139	.277	.416	.555	.694	--	--	--	3778
42"	U	.047	.095	.142	.190	.237	.356	.474	--	--	--	--	--	--	--	1850
	C	.022	.043	.065	.087	.108	.163	.217	.433	.650	--	--	--	--	--	3238
48"	U	.079	.158	.238	.317	.396	.594	--	--	--	--	--	--	--	--	1417
	C	.032	.063	.095	.127	.158	.238	.317	.634	--	--	--	--	--	--	2834
54"	U	.125	.250	.374	.499	.624	--	--	--	--	--	--	--	--	--	1120
	C	.044	.089	.133	.178	.222	.333	.444	--	--	--	--	--	--	--	2519
60"	U	.188	.375	.563	.751	--	--	--	--	--	--	--	--	--	--	907
	C	.060	.120	.180	.240	.300	.450	.601	--	--	--	--	--	--	--	2267
66"	U	.272	.544	--	--	--	--	--	--	--	--	--	--	--	--	749
	C	.079	.158	.237	.316	.395	.593	--	--	--	--	--	--	--	--	2060

U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1

Safety Factor

PRODUCT DETAILS: T-BAR SERIES

DIAGRAM	<p>A - Center to center of bearing bar</p> <p>B - Spacing between bearing bar top flanges</p> <p>C - Spacing between bearing bar bottom flanges</p>		<p>Width</p> <p>Height</p> <p>END VIEW</p>	

OPTIONS	Resin:	SPF, SVF	Surface:	Grit-Fine, Medium,
	Color:	Gray, Yellow		Coarse
	Bearing Bar Size:	2" x 1"	Width:	36", 48"
			Length:	240"

STOCK LIST	SERIES	BEARING BAR SIZE	#/SF	A	B	C	% O/A
	MS-T-5020	2" x 1"	3.0	2"	1"	1.400"	50%



McNICHOLS® Fiberglass Grating, Pultruded T-Bar - Balcony Platform, Gonzaga College High School, Washington, DC

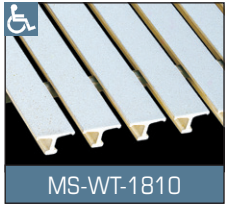


PULTRUDED WIDE T-BAR FIBERGLASS GRATING

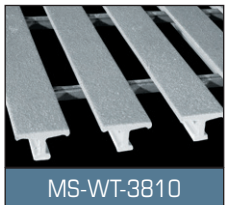
McNICHOLS DURAGRID® Pultruded Wide T-Bar Fiberglass Grating panels are corrosion- and slip-resistant and fire-retardant. This product has been tested and approved for Virginia Graeme Baker Act (VGB) compliance.

**MS-WT-1210**

McNICHOLS® MS-WT-1210 - DURAGRID® Grating is available with a 1" bearing bar height in gray polyester resin with medium grit in a 144" length. This Grating has a tight bar spacing and a small open area of 12%, making it ideal for ADA applications.

**MS-WT-1810**

McNICHOLS® MS-WT-1810 - DURAGRID® Grating is available with a 1" bearing bar height in gray or white polyester with a fine or medium grit surface. This Grating has a small open area of 18%, making it a great choice if your needs require ADA compliance.

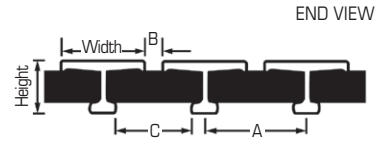
**MS-WT-3810**

McNICHOLS® MS-WT-3810 - DURAGRID® Grating is available with a 1" bearing bar height in gray polyester resin with medium grit. This Grating has an open area of 38%.

PRODUCT DETAILS: WIDE T-BAR SERIES

DIAGRAM

- A** - Center to center of bearing bar
B - Spacing between bearing bar top flanges
C - Spacing between bearing bar bottom flanges



OPTIONS

Resin:	SPF, SVF	Surface:	Fine, Medium Grit
Color:	SPF - Gray, White, Yellow	Width:	36", 48"
		Length:	144", 240"
Bearing Bar Size:	1" x 1.625"		

STOCK LIST

SERIES	BEARING BAR SIZE	#/SF	A	B	C	% O/A
MS-WT-1210	1" x 1.625"	2.79	1.850"	0.225"	1.350"	12%
MS-WT-1810	1" x 1.625"	2.60	2.000"	0.375"	1.500"	18%
MS-WT-3810	1" x 1.625"	2.10	2.620"	0.995"	1.620"	38%

LOAD TABLE: MS-WT-1210

SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	SAFE LOAD
12"	U	.002	.004	.006	.008	.010	.016	.021	.042	.052	.062	.083	11546
	C	.003	.007	.010	.013	.017	.025	.033	.067	.083	.100	.133	5773
18"	U	.010	.019	.029	.038	.048	.072	.096	.192	.240	.288	.383	5131
	C	.010	.020	.031	.041	.051	.077	.102	.204	.256	.307	.409	3849
24"	U	.029	.057	.086	.114	.143	.215	.286	.572	--	--	--	2887
	C	.023	.046	.069	.092	.114	.172	.229	.458	.572	--	--	2887
30"	U	.066	.133	.199	.266	.332	.498	.664	--	--	--	--	1830
	C	.042	.085	.127	.170	.212	.319	.425	--	--	--	--	2288
36"	U	.134	.267	.401	.535	.668	--	--	--	--	--	--	1251
	C	.071	.143	.214	.285	.356	.535	--	--	--	--	--	1877
42"	U	.238	.476	--	--	--	--	--	--	--	--	--	901
	C	.109	.217	.326	.435	.543	--	--	--	--	--	--	1576
48"	U	.398	--	--	--	--	--	--	--	--	--	--	676
	C	.159	.319	.478	.637	--	--	--	--	--	--	--	1351

U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1
Safety Factor**LOAD TABLE: MS-WT-1810**

SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	SAFE LOAD
12"	U	.002	.004	.007	.009	.011	.017	.022	.045	.056	.067	.090	10680
	C	.004	.007	.011	.014	.018	.027	.036	.072	.090	.108	.144	5340
18"	U	.010	.021	.031	.041	.052	.078	.104	.207	.259	.311	.415	4746
	C	.011	.022	.033	.044	.055	.083	.111	.221	.277	.332	.442	3560
24"	U	.031	.062	.093	.124	.155	.232	.310	.619	--	--	--	2670
	C	.025	.050	.074	.099	.124	.186	.248	.495	.619	--	--	2670
30"	U	.072	.144	.215	.287	.359	.539	.718	--	--	--	--	1693
	C	.046	.092	.138	.184	.230	.345	.460	--	--	--	--	2116
36"	U	.145	.289	.434	.578	.723	--	--	--	--	--	--	1157
	C	.077	.154	.231	.308	.385	.578	--	--	--	--	--	1736
42"	U	.257	.514	--	--	--	--	--	--	--	--	--	833
	C	.118	.235	.353	.470	.588	--	--	--	--	--	--	1458
48"	U	.431	--	--	--	--	--	--	--	--	--	--	625
	C	.172	.345	.517	.689	--	--	--	--	--	--	--	1250

U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1
Safety Factor**CLIPS & FASTENERS**

A complete list of Clips and Fasteners is available on page 50.

LOAD TABLE: MS-WT-3810

SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	SAFE LOAD
12"	U	.003	.006	.009	.012	.015	.022	.029	.059	.074	.088	.118	8137
	C	.005	.009	.014	.019	.024	.035	.047	.094	.118	.141	.188	4069
18"	U	.014	.027	.041	.054	.068	.102	.136	.271	.339	.407	.542	3616
	C	.014	.029	.043	.058	.072	.108	.145	.289	.362	.434	.579	2712
24"	U	.040	.081	.121	.162	.202	.304	.405	--	--	--	--	2034
	C	.032	.065	.097	.130	.162	.243	.324	.648	--	--	--	2034
30"	U	.094	.188	.282	.376	.470	--	--	--	--	--	--	1290
	C	.060	.120	.180	.240	.300	.451	.601	--	--	--	--	1612
36"	U	.189	.378	.567	--	--	--	--	--	--	--	--	882
	C	.101	.202	.302	.403	.504	--	--	--	--	--	--	1323
42"	U	.336	.673	--	--	--	--	--	--	--	--	--	635
	C	.154	.308	.461	.615	--	--	--	--	--	--	--	1111
48"	U	.563	--	--	--	--	--	--	--	--	--	--	476
	C	.225	.451	.676	--	--	--	--	--	--	--	--	952

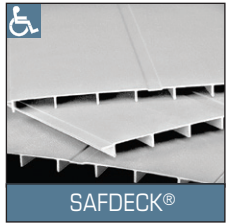
U - Deflection Under Uniform Load

C - Deflection Under Concentrated Load

Safe Load 2:1
Safety Factor

FIBERGLASS DECKING & FLOORING

McNICHOLS® Fiberglass Decking and Flooring products are lightweight and corrosion-resistant. These products are used in a variety of applications, such as trench covers to contain vapors or fumes and to ensure footing on pedestrian bridge walkways.



SAFDECK®

McNICHOLS SAFDECK® Overlapping Decking is a system of 24" wide Fiberglass panels designed to overlap for a continuous solid surface. It is an alternative to wood, Aluminum and Steel Decking in wet or corrosive environments. SAFDECK® is ADA-compliant.

PRODUCT OPTIONS

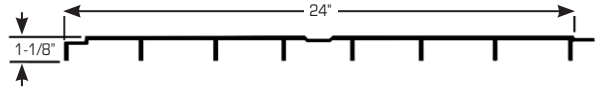
Resin:	SPF Composite	Surface:	Grit: Solid or Vented
Color:	Slate Gray		Smooth: Solid or Vented
Height:	1-1/8"	Width:	24"
		Length:	240", 288"

LOAD TABLE: SAFDECK®

		24" WIDTH						
SPAN	LOAD	25	50	60	75	100	200	300
24"	U	.015	.030	.036	.044	.059	.119	.179
	C	.012	.023	.029	.036	.048	.096	.143
36"	U	.063	.126	.151	.189	.252	--	--
	C	.032	.064	.081	.101	.134	.269	--
48"	U	.215	.430	--	--	--	--	--
	C	.073	.147	.206	.257	.343	--	--

U - Deflection Under Uniform Load C - Deflection Under Concentrated Load

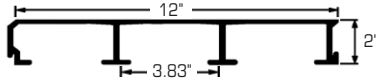
SAFDECK® Side View



SAFPLANK®

McNICHOLS SAFPLANK® Interlocking Plank Flooring with a solid surface is an ADA-compliant, high-strength system of Interlocking Planks made from Fiberglass composite that is ideal for dry, wet, or certain chemical environments.

SAFPLANK® Side View



PRODUCT OPTIONS

Resin:	SPF Composite	Surface:	Grit: Solid or Vented
Color:	Slate Gray		Smooth: Solid or Vented
Depth:	2"	Width:	12", 24"
		Length:	144", 240", 288"

SAFPLATE®

McNICHOLS SAFPLATE® Plate Flooring is ideal for both wet and dry environments. This ADA-compliant plate is Pultruded Fiberglass with a textured, slip-resistant surface. SAFPLATE® is a tough, corrosion-resistant, lightweight, maintenance-free alternative to Steel plate.

PRODUCT OPTIONS

Resin:	SPF	Surface:	Smooth, Grit
Color:	Gray	Width:	48"
Thickness:	1/8", 1/4", 1/2"	Length:	96"

LOAD TABLE: SAFPLANK®

		12" WIDTH						
SPAN	LOAD	50	100	200	300	500	1000	
24"	U	.006	.011	.023	.034	.057	.113	
	C	<.005	.009	.018	.027	.045	.091	
36"	U	.022	.043	.087	.130	.217	--	
	C	.012	.023	.046	.070	.116	.232	
48"	U	.062	.123	.247	.370	--	--	
	C	.025	.049	.099	.148	.247	.494	
60"	U	.140	.281	.562	--	--	--	
	C	.045	.090	.180	.270	.450	--	
72"	U	.291	.583	--	--	--	--	
	C	.078	.155	.311	.466	--	--	
		24" WIDTH						
SPAN	LOAD	50	100	200	300	500	1000	
24"	U	--	.015	.030	.045	.075	.151	
	C	--	.012	.024	.036	.060	.121	
36"	U	--	.046	.092	.138	.231	--	
	C	--	.024	.049	.074	.123	.246	
48"	U	--	.133	.265	.398	--	--	
	C	--	.053	.106	.159	.265	--	
60"	U	--	.302	.605	--	--	--	
	C	--	.097	.193	.290	.484	--	
72"	U	--	.627	--	--	--	--	
	C	--	.167	.334	.501	--	--	

U - Deflection Under Uniform Load C - Deflection Under Concentrated Load

LOAD TABLE: SAFPLATE®

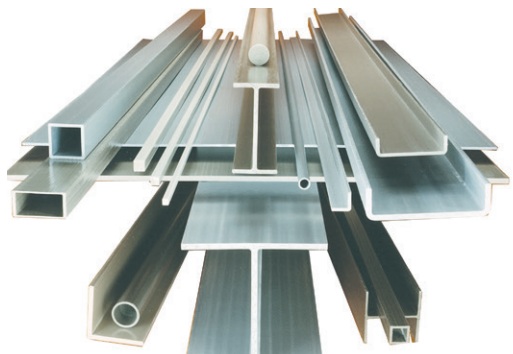
		SPAN								
THICK	LOAD	12"	18"	24"	30"	36"	42"	48"	54"	60"
1/4"	U	167	34	11	--	--	--	--	--	--
	U	.120	.125	.125	--	--	--	--	--	--
	C	104	32	14	--	--	--	--	--	--
3/8"	U	.120	.125	.125	--	--	--	--	--	--
	U	562	167	55	23	11	--	--	--	--
	C	.120	.180	.188	.188	.188	--	--	--	--
1/2"	U	1333	370	167	71	34	18	11	--	--
	U	.120	.180	.240	.250	.250	.250	.250	--	--
	C	833	370	209	111	65	40	27	--	--
5/8"	U	.120	.180	.240	.250	.250	.250	.250	--	--
	U	2600	768	326	167	84	45	27	17	11
	C	.120	.180	.240	.300	.312	.312	.312	.312	.312
3/4"	U	1622	723	407	260	157	99	66	47	34
	U	.120	.180	.240	.300	.312	.312	.312	.312	.312
	C	4499	1333	563	288	167	94	55	34	22
1"	U	.120	.180	.240	.300	.360	.375	.375	.375	.375
	U	2804	1250	702	450	313	205	138	97	71
	C	.120	.180	.240	.300	.360	.375	.375	.375	.375
1"	U	10677	3158	1333	682	396	248	167	108	71
	U	.120	.180	.240	.300	.360	.420	.480	.500	.500
	C	6667	2956	1667	1068	740	544	416	305	222
1"	U	.120	.180	.240	.300	.360	.420	.480	.500	.500
	C	.120	.180	.240	.300	.360	.420	.480	.500	.500

U - Deflection Under Uniform Load C - Deflection Under Concentrated Load



EXTREN® FIBERGLASS STRUCTURAL SHAPES & PLATES

McNICHOLS® Structural Shapes include a variety of components for your projects, such as EXTREN® Fiberglass Structurals along with Fiberglass Plate, Handrail System Components and Embed Angle. These non-corrosion components provide opportunities to replace unprotected steel and wood in a variety of structural applications.



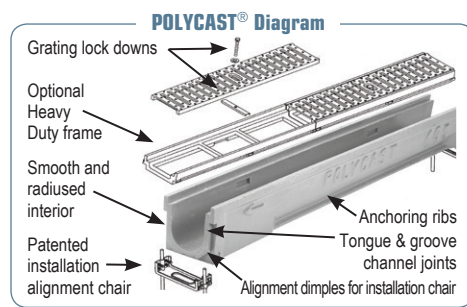
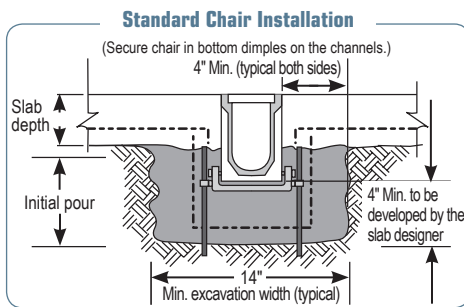
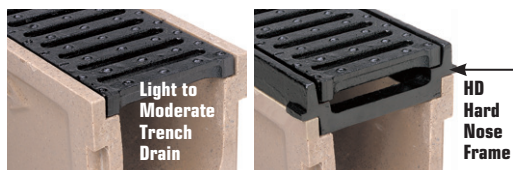
- IMPACT RESISTANT
- LIGHTWEIGHT
- DIMENSIONAL STABILITY
- HIGH STRENGTH
- LOW MAINTENANCE
- LOW CONDUCTIVITY
- NON-MAGNETIC
- EASY FABRICATION

FIBERGLASS RESIN CHARACTERISTICS

RESIN CHARACTERISTICS	RESIN	TYPE	DESCRIPTION
	SPF	Polyester	Fire Retardant, Class A Flame Rating of 25 or less per ASTM E-84
	SVF	Vinyl Ester	Fire Retardant, Class A Flame Rating of 25 or less per ASTM E-84
	SGF	Polyester	Orthophthalic Polyester Architectural Grade, Fire Retardant, Class A Flame Rating of 25 or less per ASTM E-84
	SFF	Polyester	Food Grade, Fire Retardant, Class B Flame Rating of 30 or less per ASTM E-84
	SPH	Phenolic	Fire Retardant, Class A Flame Rating of 25 or less, Flame Spread Index 10, Smoke Developed Index 10, per ASTM E-84
	NFR	Various Composites	Non-Fire Retardant

POLYCAST® TRENCH DRAIN SYSTEM

McNICHOLS® Trench Drain System is pre-sloped and designed to have flow rates equal to or greater than most larger poured-in-place Trench Drain Systems. Kit options available!



METAL PLATE FLOORING

McNICHOLS® Metal Plate Flooring products provide secure, slip-resistant surfaces in industrial settings or places with heavy pedestrian traffic. Approved by the ADA, these products offer sure footing in slippery conditions.

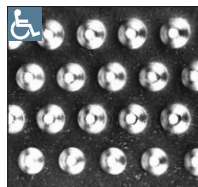


GRIP TIGHT® PLATE FLOORING

In the patented **McNICHOLS** GRIP TIGHT® process, an Oxide grit coating is bonded to a metal base using a metal bonding agent. This metal and abrasive grit composite provides a spark-resistant, non-corrosive surface that results in sure footing under slippery conditions. ADA-approved.

PRODUCT OPTIONS

Material: Aluminum, Carbon Steel, Stainless
Surface: Aluminum or Steel Oxide Grit
Thickness: 3/16" to 1"
Size: 60" x 120", 60" x 144"



TRACTION TREAD® PLATE FLOORING

For slip resistance in all directions, the raised, dimpled, perforated-button surface of **McNICHOLS** TRACTION TREAD® Plate Flooring is a great choice for most industrial applications, especially when pedestrian traffic is a consideration. ADA-approved.

PRODUCT OPTIONS

Material: Aluminum, Alloy Type 5052-H32; Carbon Steel; Stainless Steel, Type 304 (Chevron pattern)
Gauge: 16, 14, 11, 0.1250" Thick Aluminum
Size: 36" x 120"



DIAMONDBACK® INTERLOCKING FLOORING

McNICHOLS DIAMONDBACK® Extruded Interlocking Flooring has aggressive, serrated ridges that provide slip resistance superior to other skid-resistant Aluminum floor plates. The Flooring has legs that raise it off the floor, allowing for drainage and longitudinal stiffness. The edges have an interlocking channel running with the length. ADA-approved.

PRODUCT OPTIONS

Material: Aluminum, Alloy Type 6061-T6
Height: 0.360"
Surface: Solid Serrated (Vented by Special Order)
Size: 12" x 144"

PLANK GRATING

McNICHOLS® Plank Grating includes a variety of channel configuration choices and walkway styles. Plank Grating is a one-piece construction product that is lightweight and has aggressive, highly slip-resistant surfaces for added safety. In addition to low material cost and nominal installation cost, Plank Grating provides long-term value with rust-resistant materials and finishes.

PRODUCT SPECIFICATIONS

SERIES NAME					
	GRIP STRUT®	PERF-O GRIP®	TRACTION TREAD®	GRATE-LOCK®	DIAMONDBACK®
CONSTRUCTION TYPES	Plank, Heavy-Duty Plank, Walkway, Heavy-Duty Walkway	Plank, Walkway	Plank	Interlocking Plank with Slip-Resistant Surface, Interlocking Plank with Smooth Surface	Extruded Interlocking Plank with Solid Surface, Extruded Interlocking Plank with Vented Surface
PRIMARY MATERIAL	Aluminum, Carbon Steel, Galvanized Steel, Stainless Steel	Aluminum, Carbon Steel, Galvanized Steel	Aluminum, Galvanized Steel	Galvanized Steel	Aluminum
WIDTH	Plank: 4-3/4", 7", 9-1/2", 11-3/4", 18-3/4", 24" HD Plank: 9-1/4" Walkway: 24" HD Walkway: 30"	Plank: 5", 7", 10", 12", 18" Walkway: 24", 30", 36"	7", 10", 12", 18"	9", 12"	6", 12"
CHANNEL SIZE	Plank: 1-1/2", 2", 2-1/2", 3" Dpt. HD Plank: 2" Dpt. Walkway: 4-1/2" Ht. HD Walkway: 5" Ht.	Plank: 1-1/2", 2" Dpt. Walkway: 5" Ht.	1-1/2", 2" Dpt.	1-1/2", 2", 2-1/2", 3", 4" (Special Order) Dpt.	1", 1-1/2", 2" Dpt.
% OPEN AREA	34.2% to 47.8%	28.5% to 38.2%	3% to 34.7%	40.9% to 46.1%	0% to 12%
LENGTH	120", 144" (Longer by Special Order)	120", 144" (Longer by Special Order)	120", 144"	144" (1-1/2" Dpt.); 144", 240", 288" (2-1/2" Dpt.); 288" (3" Dpt.)	144"

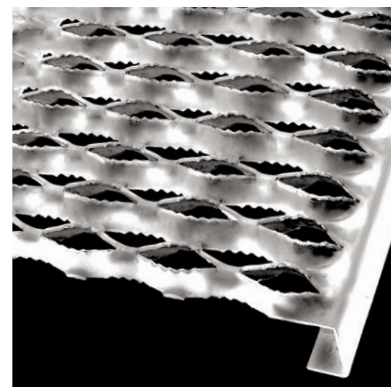
WE ARE READY AND INSPIRED TO SERVE® YOU AT 800.237.3820!



McNICHOLS® Plank Grating, GRIP STRUT® - Walking Surface, Tennessee Valley Authority, Ocoee, TN



McNICHOLS® Plank Grating, PERF-O GRIP® - Farm Equipment Platform, Williamsburg, IA



HOW TO ORDER/SPECIFY McNICHOLS® PLANK GRATING

The information provided below is your guide for choosing the right **McNICHOLS®** PLANK GRATING product for your project. Please specify:

APPLICATION – Plank Grating use and physical requirements

- Interior/exterior application
- Loading, span and support requirements
- Traffic requirements (hand cart, ADA, pedestrian, etc.)

SERIES NAME & CONSTRUCTION TYPE – GRIP STRUT® (Plank, Walkway), Heavy-Duty GRIP STRUT® (Plank, Walkway), PERF-O GRIP® (Plank, Walkway), GRATE-LOCK® Interlocking Plank, TRACTION TREAD® Plank, DIAMONDBACK® Extruded Interlocking Plank, Heavy-Duty Extruded Plank

PRIMARY MATERIAL – Type of material (Aluminum, Carbon Steel, Pre-Galvanized Steel, Stainless Steel)

MATERIAL FINISH – Inventory is typically mill finish unless otherwise specified

GAUGE (THICKNESS) – Material gauge numbers or thickness in inches (specify as Extrusion for DIAMONDBACK® Extruded Interlocking Plank and Heavy-Duty Extruded Plank)

SURFACE PROFILE, WIDTH & CHANNEL SIZE – Number of openings to width, surface profile, width of Plank/Walkway and channel size. Depth for Plank, height for Walkway. (e.g. 5-Diamond (11-3/4" Width), 2" channel depth)

OPEN AREA – Percentage of open area

QUANTITY/SIZE(S) – Number of panels and/or pieces (including cut-to-size)

SPECIAL – Requirements such as fabrication, notching, cut-outs, Stair Treads (size, and Nosing type if desired), non-standard tolerances, etc.

ACCESSORIES – Quantity and type of Clips or Fasteners/Hardware, Splice Plate Kit

GRIP STRUT® PLANK & WALKWAY

McNICHOLS GRIP STRUT® has a slip-resistant diamond surface that is ideal for safety applications where mud, ice, snow, oil, and detergents can create hazardous walking conditions. In addition to low material cost and nominal installation cost, GRIP STRUT® provides long-term value with rust-resistant materials and properties.



GRIP STRUT®

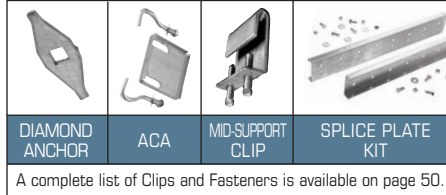
GRIP STRUT® PLANK

The surface of the planks have diamond-shaped openings with serrated edges, making them slip resistant in every direction under practically all conditions. **McNICHOLS GRIP STRUT®** is also available in Ladder Rungs and Stair Treads (pages 50 - 51).

PRODUCT OPTIONS

Material: Aluminum, Carbon Steel, Galvanized Steel, Stainless Steel
Gauge: 16, 14, 12 (Stainless Steel), .0800", .1000" (Alum)
Width: 4-3/4", 7", 9-1/2", 11-3/4", 18-3/4", 24"
Depth: 1-1/2", 2", 2-1/2", 3"
Length: 120", 144" Stock, Cut-to-Size Available

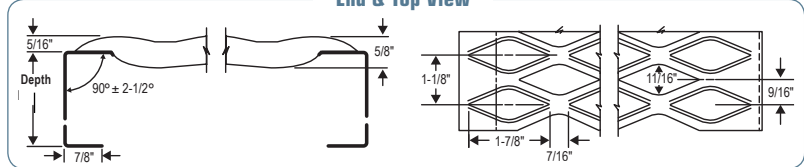
CLIPS & FASTENERS



A complete list of Clips and Fasteners is available on page 50.

GRIP STRUT® Stair Treads
page 49

End & Top View



LOAD TABLE: 2-DIAMOND PLANK (4-3/4\"/>

DEPTH (mm)	#/LF (kg/m)	CLEAR SPAN																	
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
ALUMINUM, ALLOY TYPE 5052-H32, .0800" THICK																			
2" (50.8)	92 (1.37)	U	1463	937	650	478	366	289	234	194	162	138	119	Spans in blue shaded area produce deflection of 1/4" or less under uniform load of 100 Lbs./Square Foot.					
		D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.87	1.02						
		C	579	463	386	331	290	257	232	211	192	177	165						
		D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69	.80						
STEEL 14 GAUGE																			
1-1/2" (38.1)	2.3 (3.42)	U	1324	849	591	435	334	265	215	179	151	10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge. Please visit mcnichols.com for more information.							
		D	.06	.10	.14	.20	.26	.32	.40	.49	.58								
		C	524	420	351	301	265	236	213	195	179								
		D	.05	.08	.11	.16	.20	.26	.32	.39	.47								
2" (50.8)	2.6 (3.87)	U	2198	1409	980	721	553	438	356	295	248	212	184	161	142	113	93		
		D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.60	.70	.81	.92	1.18	1.47		
		C	870	697	582	499	438	390	352	321	295	273	255	239	225	201	183		
		D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74	.94	1.18		
STEEL 12 GAUGE																			
1-1/2" (38.1)	3.2 (4.76)	U	1751	1123	782	576	443	351	286	237	200	172	149	131	116	U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load			
		D	.07	.11	.15	.21	.27	.35	.43	.52	.62	.74	.86	.99	1.14				
		C	693	556	464	399	350	313	283	258	238	221	206	194	183				
		D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.69	.79	.91				
2" (50.8)	3.6 (5.36)	U	2792	1790	1245	917	703	557	453	375	317	271	235	205	181	145	119	99	85
		D	.05	.08	.11	.16	.20	.26	.32	.39	.46	.55	.63	.73	.84	1.07	1.34	1.64	1.98
		C	1105	886	739	635	557	496	448	409	376	348	325	305	287	255	236	211	201
		D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.67	.86	1.07	1.31	1.57

Spans in blue shaded area produce deflection of 1/4\"/>

10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge. Please visit mcnichols.com for more information.

U - Uniform Load - Lbs./Square Foot
 D - Deflection - in Inches
 C - Concentrated Load

LOAD TABLE: 4-DIAMOND PLANK (9-1/2\"/>

DEPTH (mm)		#/LF (kg/m)		CLEAR SPAN																
				2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'
ALUMINUM, ALLOY TYPE 5052-H32, .0800" THICK																				
1-1/2" (38.1)	1.28 (1.90)	U	499	319	222	163	124	98	<p>This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk.</p> <p>McNICHOLS shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.</p>											
		D	.10	.15	.22	.31	.40	.51												
		C	395	316	263	226	197	175												
		D	.08	.12	.18	.25	.32	.41												
2" (50.8)	1.37 (2.03)	U	732	468	325	239	183	145	117	97	81	69								
		D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.87								
		C	568	463	386	331	290	257	232	211	192	177								
		D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69								
STEEL, 14 GAUGE																				
1-1/2" (38.1)	3.6 (5.36)	U	663	426	296	219	168	134	109	90	77	<p>10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge. Please visit mcnichols.com for more information.</p>								
		D	.06	.10	.14	.20	.26	.33	.41	.50	.59									
		C	525	421	352	303	266	238	215	197	182									
		D	.05	.08	.11	.16	.21	.26	.33	.40	.47									
STEEL, 12 GAUGE																				
1-1/2" (38.1)	5.0 (7.44)	U	906	581	405	298	229	182	148	123	104	89	77	67	60	<p>U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load</p>				
		D	.07	.11	.16	.21	.28	.36	.44	.54	.64	.76	.89	1.02	1.17					
		C	718	575	481	413	363	324	292	267	246	228	213	200	189					
		D	.06	.09	.13	.17	.23	.29	.35	.43	.52	.61	.71	.82	.94					
2" (50.8)	5.4 (8.04)	U	1398	896	624	460	353	280	228	189	160	137	119	104	92	74	61	51	43	
		D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.65	.75	.85	1.10	1.38	1.69	2.03	
		C	1107	887	741	637	559	499	451	412	380	353	329	309	292	264	241	222	206	
		D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.52	.60	.68	.88	1.10	1.35	1.63	
STAINLESS STEEL, TYPE 304, 16 GAUGE																				
2" (50.8)	3.2 (4.76)	U	720	462	322	238	183	145	118	98	83	71	59	<p>Spans in blue shaded area produce deflection of 1/4" or less under uniform load of 100 Lbs./Square Foot.</p>						
		D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.55	.61							
		C	570	457	382	329	289	258	234	214	197	184	165							
		D	.04	.06	.09	.12	.16	.21	.26	.31	.38	.44	.49							

This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. **McNICHOLS** shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.

10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge. Please visit mcnichols.com for more information.

U - Uniform Load - Lbs./Square Foot
 D - Deflection - in Inches
 C - Concentrated Load

LOAD U

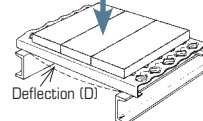


Figure 1
UNIFORM LOAD (U) application to all Grating: Maximum load (lb./SF) permitted by flexural stress in side rail or Grating strut, whichever is lower, applied to entire Grating area (full-width by clear span) between supports.

DEFLECTION (D) in all walkways/planks: Deflection (in) corresponding to maximum load (U) or (C) permitted by flexural stress in side rail or Grating strut, whichever is lower, applied as defined in figures 1 or 2 and 3.

LOAD C

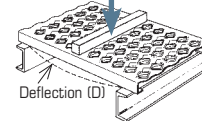


Figure 2
CONCENTRATED LOAD (C) application to all walkways/planks: Maximum load (lb./ft.) permitted by flexural stress in side rail or Grating strut, whichever is lower, applied transversely to total width of Grating at mid-span and assumed to be carried equally by both side rails.

DEFLECTION (D) in all walkways/planks: Deflection (in) corresponding to maximum load (U) or (C) permitted by flexural stress in side rail or Grating strut, whichever is lower, applied.

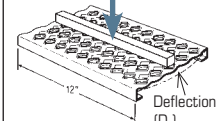
LOAD C_s

Figure 3
CONCENTRATED LOAD (Cs) application to Grating surface struts of all walkways/planks: Maximum load (lb./ft.) permitted by flexural stress in Grating strut, applied longitudinally to a 1 ft. length of Grating at mid-width.

STRUT DEFLECTION (Ds) in all walkways/planks: Deflection (in) corresponding to maximum concentrated strut load (Cs), permitted by flexural stress in Grating surface strut, applied longitudinally to a 1 ft. length of Grating at mid-width.

GRIP STRUT® PLANK (CONTINUED)

LOAD TABLE: 5-DIAMOND PLANK (1 1-3/4" WIDTH)

DEPTH (mm)	#/F (kg/m)	CLEAR SPAN															
		2'	2'6"	3'	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'
ALUMINUM, ALLOY TYPE 5052-H32, .0800" THICK																	
1-1/2" (38.1)	1.49 (2.22)	U	403	255	179	132	100										
		D	.10	.15	.22	.31	.40										
		C	395	316	263	226	197										
		D	.08	.12	.18	.25	.32										
2" (50.8)	1.59 (2.36)	U	592	379	263	193	148	117	95	78							
		D	.08	.13	.18	.25	.33	.42	.52	.63							
		C	466	466	386	331	290	257	232	211							
		D	.05	.10	.15	.20	.27	.34	.42	.51							
STEEL, 14 GAUGE																	
1-1/2" (38.1)	4.2 (6.25)	U	536	344	240	177	136	108	88	74	62						
		D	.06	.10	.14	.20	.26	.33	.41	.50	.60						
		C	525	422	353	304	267	239	216	198	183						
		D	.05	.08	.12	.16	.21	.26	.33	.40	.48						
2" (50.8)	4.4 (6.55)	U	890	571	397	293	225	178	145	120	102	87	76	66	59	47	
		D	.06	.09	.13	.17	.23	.29	.36	.43	.52	.61	.71	.83	.95	1.21	
		C	707	699	584	502	440	393	355	324	299	277	259	243	230	207	
		D	.04	.07	.10	.14	.18	.23	.29	.35	.42	.49	.57	.66	.76	.97	
2-1/2" (63.5)	4.7 (6.99)	U	1021	655	456	336	258	204	166	138	116	100	86	76	67	54	44
		D	.04	.06	.08	.11	.14	.18	.23	.28	.33	.39	.45	.52	.60	.77	.96
		C	707	707	669	575	505	450	407	371	342	317	296	278	262	236	216
		D	.02	.04	.06	.09	.12	.15	.18	.22	.26	.31	.36	.42	.48	.62	.77
STEEL, 12 GAUGE																	
1-1/2" (38.1)	5.9 (8.78)	U	710	456	318	235	181	144	117	98	83	71	62	55	49		
		D	.07	.11	.15	.21	.28	.35	.44	.53	.64	.76	.89	1.03	1.18		
		C	695	558	467	402	354	317	287	263	244	227	213	201	190		
		D	.05	.08	.12	.17	.22	.28	.35	.43	.51	.60	.71	.82	.95		
2" (50.8)	6.2 (9.23)	U	1131	725	505	372	286	227	185	154	130	111	97	85	75	60	50
		D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.65	.75	.86	1.11	1.39
		C	1107	888	742	638	561	501	453	414	382	355	332	312	295	266	243
		D	.04	.06	.09	.12	.16	.21	.26	.31	.38	.44	.52	.60	.69	.89	1.11
2-1/2" (63.5)	6.6 (9.82)	U	1691	1083	753	554	425	337	273	226	151	141	123	109	87	71	59
		D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68	.87	1.09
		C	1115	1115	1106	950	833	742	669	610	561	519	484	453	426	382	347
		D	.02	.04	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.55	.70	.87
STAINLESS STEEL, TYPE 304, 16 GAUGE																	
2" (50.8)	3.7 (5.51)	U	583	374	261	192	148	118	96	80	68	58	48				
		D	.05	.08	.11	.16	.20	.26	.32	.39	.47	.56	.61				
		C	464	458	323	330	290	259	235	215	199	185	165				
		D	.03	.06	.09	.12	.16	.21	.26	.32	.38	.45	.49				

A complete list of
McNICHOLS®
PLANK GRATING items is
available at mcnichols.com!

10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge.

- U - Uniform Load - Lbs./Square Foot
- D - Deflection - in Inches
- C - Concentrated Load

Spans in blue shaded area produce deflection of 1/4" or less under Uniform Load of 100 Lbs./Square Foot.

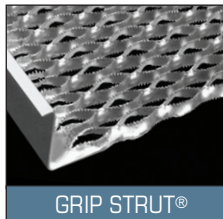
A complete list of
McNICHOLS®
PLANK GRATING items is
available at: mcnichols.com!

LOAD TABLE: 8-DIAMOND PLANK (18-3/4" WIDTH)

DEPTH (mm)		#/LF (kg/m)	CLEAR SPAN																	
			2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
ALUMINUM, ALLOY TYPE 5052-H32, .0800" THICK																				
2" (50.8)	2.20 (3.27)	U	308	237	165	121	93	73	59	49	10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge.									
		D	.54	.50	.44	.44	.47	.53	.61	.71										
		C	290	232	193	166	145	129	116	106										
		D	.32	.28	.27	.27	.28	.30	.32	.36										
STEEL, 14 GAUGE																				
2" (50.8)	6.3 (9.4)	U	540	358	250	184	142	113	92	76	65	55	48	42	Spans in shaded area produce deflection of 1/4" or less under Uniform Load of 100 Lbs./Square Foot.					
		D	.48	.37	.34	.32	.34	.38	.43	.50	.58	.66	.77	.87						
		C	437	349	292	251	220	198	179	164	152	141	132	124						
		D	.24	.21	.20	.19	.20	.21	.23	.26	.29	.32	.36	.40						
STEEL, 12 GAUGE																				
1-1/2" (38.1)	8.5 (12.6)	U	446	287	201	148	115	91	75	63	53	46	40	U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load						
		D	.27	.22	.22	.26	.32	.39	.47	.56	.67	.80	.92							
		C	359	280	235	203	179	161	146	135	125	117	110							
		D	.12	.12	.12	.14	.16	.19	.22	.26	.30	.35	.40							
2" (50.8)	8.9 (13.2)	U	710	456	318	235	181	144	117	98	83	71	62	54	48					
		D	.31	.25	.23	.25	.28	.31	.37	.44	.51	.60	.68	.79	.90					
		U	554	444	371	291	282	253	229	210	194	181	169	160	151					
		D	.17	.15	.14	.15	.16	.17	.19	.22	.25	.28	.32	.36	.40					

LOAD TABLE: 10-DIAMOND PLANK (24" WIDTH)

DEPTH (mm)	#/LF (kg/m)	CLEAR SPAN																
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'
STEEL, 14 GAUGE																		
2" (50.8)	7.4 (11.0)	U	300	300	228	168	128	102	82	68	57	49	42	10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge.				
		D	.46	.48	.42	.38	.38	.41	.44	.49	.55	.62	.70					
		C	400	400	343	294	257	229	206	187	172	158	147					
		D	.34	.35	.32	.30	.29	.29	.30	.31	.33	.35	.37					
STEEL, 12 GAUGE																		
2" (38.1)	10.4 (15.5)	U	475	416	289	212	162	128	104	86	72	62	53	46	Spans in blue shaded area produce deflection of 1/4" or less under Uniform Load of 100 Lbs./Square Foot.			
		D	.40	.39	.33	.31	.31	.34	.38	.44	.48	.56	.63	.71				
		C	650	520	434	372	325	289	260	237	217	200	186	174				
		D	.26	.22	.19	.20	.20	.21	.22	.23	.25	.28	.31	.34				
3" (76.2)	11.1 (16.5)	U	475	475	475	392	300	237	192	159	133	114	98	85	75	59	48	
		D	.38	.39	.42	.38	.36	.34	.35	.37	.39	.43	.47	.52	.58	.70	.85	
		C	900	900	800	686	600	534	480	437	400	369	343	320	300	267	240	
		D	.34	.35	.33	.29	.27	.26	.26	.26	.27	.29	.30	.32	.32	.36	.41	

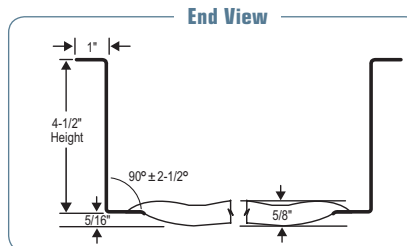


GRIP STRUT® WALKWAY

McNICHOLS GRIP STRUT® Walkway offers the same high slip resistance as GRIP STRUT® Planks. In addition, GRIP STRUT® Walkway meets OSHA requirements for toeboards on elevated structures because of the inverted channels that are measured in terms of depth.

LOAD TABLE: 10-DIAMOND WALKWAY (24" WIDTH)

HT. (mm)	#/L (kg/m)	CLEAR SPAN																	
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
STEEL, 15 GAUGE																			
4-1/2"	8.9 (13.2)	U	300	300	300	300	300	263	213	176	148	126	109	95	83	66	53	43	--
		D	.41	.41	.42	.45	.48	.47	.42	.40	.40	.41	.43	.45	.47	.55	.64	.75	--
		C	400	400	400	400	400	400	400	400	400	400	380	355	333	296	266	242	--
		D	.32	.33	.33	.33	.34	.35	.36	.38	.39	.41	.42	.41	.41	.42	.44	.47	--
STEEL, 12 GAUGE																			
4-1/2"	12.5 (18.6)	U	475	475	475	475	475	420	340	281	236	201	173	151	133	105	85	70	59
		D	.37	.37	.38	.40	.43	.43	.39	.37	.37	.37	.39	.41	.44	.51	.59	.69	.80
		C	900	900	900	900	900	900	850	773	709	654	607	567	531	472	425	387	354
		D	.34	.34	.35	.35	.36	.37	.37	.35	.34	.33	.33	.33	.33	.35	.37	.40	.44



PRODUCT OPTIONS

Material: Galvanized Steel
Gauge: 14, 12 Height: 4-1/2"
Width: 24" Length: 120", 144"

CLIPS & FASTENERS



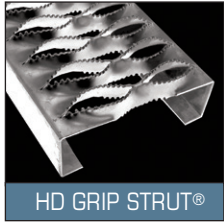
A complete list of Clips and Fasteners is available on page 50.



GRIP STRUT® Walkway

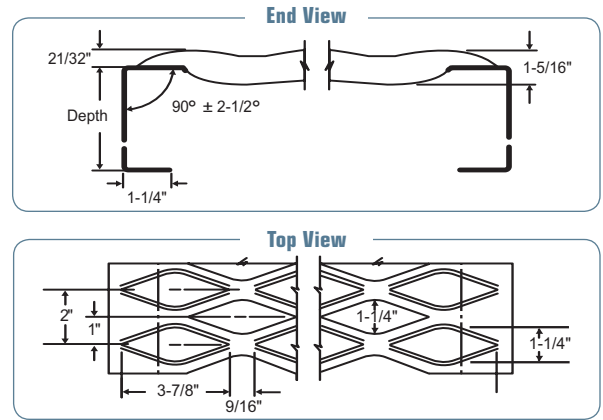
HEAVY-DUTY GRIP STRUT® PLANK

McNICHOLS Heavy-Duty GRIP STRUT® Planks are designed for heavier loads and longer spans with their 10 Gauge thickness. Diamond openings are larger than openings on standard size planks. These features provide exceptional slip resistance in areas that may be exposed to snow, ice, mud, oils, and other slippery substances.



PRODUCT OPTIONS

Material: Galvanized Steel
 Gauge: 10
 Width: 9-1/4", 13-3/4", 23-1/4", 36" (Stock)
 Depth: 2" (Stock), 2-1/2", 3", 4"
 Length: 144"



LOAD TABLE: 2-DIAMOND HD PLANK (9-1/4" WIDTH)

DEPTH (mm)		#/LF (kg/m)	CLEAR SPAN																	
			2'	2 6"	3'	3 6"	4'	4 6"	5'	5 6"	6'	6 6"	7'	7 6"	8'	9'	10'	11'	12'	
STEEL, 10 GAUGE																				
2" (50.8)	74 (110)	U	2681	1716	1141	876	699	529	428	354	300	253	218	191	167	132	109	90	74	
		D	.05	.08	.11	.15	.19	.24	.30	.35	.41	.47	.54	.62	.69	.85	1.04	1.24	1.45	
		C	2067	1653	1378	1181	1033	919	827	752	689	636	590	551	517	459	413	374	345	
		D	.04	.06	.09	.12	.15	.19	.24	.28	.33	.38	.44	.49	.55	.68	.81	.96	1.16	

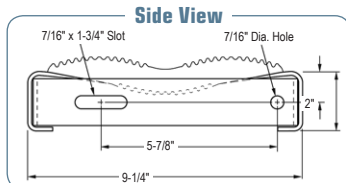
LOAD TABLE: 3-DIAMOND HD PLANK (13-3/4" WIDTH)

DEPTH (mm)		#/LF (kg/m)	CLEAR SPAN																	
			2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
STEEL, 10 GAUGE																				
2-1/2" (63.5)	100 (14.9)	U	2733	1794	1214	893	683	539	437	361	304	259	223	194	170	136	110	92	76	62
		D	.05	.07	.10	.14	.18	.23	.27	.32	.36	.42	.49	.55	.62	.79	.96	1.15	1.35	1.52
		C	3133	2507	2089	1790	1567	1393	1253	1139	1044	964	895	836	783	696	627	570	522	480
		D	.04	.06	.08	.11	.14	.18	.22	.25	.29	.34	.39	.44	.50	.63	.76	.91	1.06	1.22

HEAVY-DUTY GRIP STRUT® STAIR TREADS

	2'	2'6"	3'	4'
U	2412	1544	1026	629
C	1860	1487	1240	929

Material: Galvanized Steel 10 GA
 #/LF: 7.4 Depth: 2"
 Width: 9-1/4" Length: 24" to 48"



LOAD TABLE: 5-DIAMOND HD PLANK (23-1/4" WIDTH)

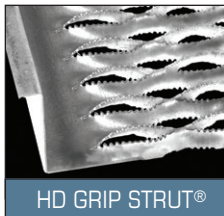
DEPTH (mm)	#/LF (kg/m)	CLEAR SPAN																	
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
STEEL, 10 GAUGE																			
2" (50.8)	14.4 (21.4)	U	1034	661	459	337	258	204	165	136	116	97	84	73	65	51	42	34	29
		D	.04	.06	.08	.11	.14	.18	.22	.25	.29	.34	.39	.44	.50	.63	.76	.91	1.08
		C	2067	1653	1378	1181	1033	919	827	752	689	636	590	551	517	459	413	376	344
		D	.04	.06	.09	.12	.15	.19	.24	.28	.33	.38	.44	.49	.55	.68	.81	.96	1.16
2-1/2" (63.5)	14.8 (22.0)	U	1617	1034	718	528	404	319	259	214	180	153	132	115	101	81	65	54	45
		D	.05	.07	.10	.14	.18	.23	.27	.32	.36	.42	.49	.55	.62	.79	.96	1.15	1.35
		C	3133	2507	2089	1790	1567	1393	1253	1139	1044	964	895	836	783	696	627	570	522
		D	.03	.05	.07	.09	.11	.12	.17	.21	.24	.28	.31	.35	.39	.47	.55	.64	.76

LOAD TABLE: 8-DIAMOND HD PLANK (36" WIDTH)

DEPTH (mm)		#1/F (kg/m)	CLEAR SPAN																	
			2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'	
STEEL, 10 GAUGE																				
2" (50.8)	19.9 (29.6)	U	689	441	306	225	172	136	110	91	77	65	56	49	43	34	28	23	19	
		D	.05	.08	.11	.15	.19	.24	.30	.35	.41	.47	.54	.62	.69	.85	1.04	1.24	1.45	
		C	2067	1653	1378	1181	1033	919	827	752	689	636	590	551	517	459	413	376	344	
		D	.04	.06	.09	.12	.15	.19	.24	.28	.33	.38	.44	.49	.55	.68	.81	.98	1.16	

U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load

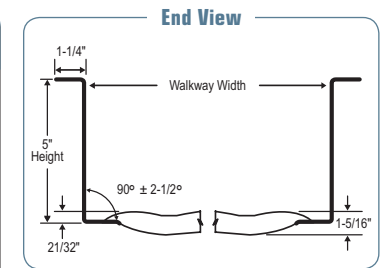
HEAVY-DUTY GRIP STRUT® WALKWAY



McNICHOLS Heavy-Duty GRIP STRUT® Walkway meets OSHA toeboard requirements for elevated structures with upturned, 5" high integral side channels (referred to as height). Heavy-Duty GRIP STRUT® Walkway is commonly used in process plants, refineries, conveyor walkways, and grain elevators.

PRODUCT OPTIONS

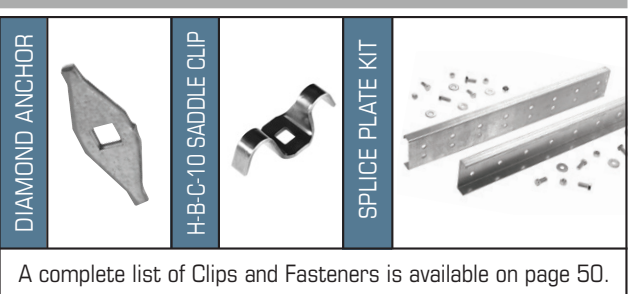
Material: Galvanized Steel
 Gauge: 10
 Width: 24", 30", 36"
 Height: 5"
 Length: 120", 144"



LOAD TABLE: 6 & 8-DIA. HD WALKWAY (30" & 36" WIDTH)

HT. (mm)	#/LF (kg/m)	WIDTH	CLEAR SPAN																														
			4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	18'	20'	22'	24'														
STEEL, 10 GAUGE																																	
5" (127)	19.9 (29.6)	30"	U	916	586	407	299	229	182	146	121	102	87	75	65	57	45	36	30	25	21	18	15	13	11	9	7	5	4	3	2	1	
			D	.37	.43	.40	.40	.46	.42	.41	.41	.49	.57	.66	.75	.86	1.09	1.33	1.62	1.93	2.28	2.67	3.09	3.54	4.02	4.53	5.07	5.64	6.24	6.87	7.53	8.22	
			C	4584	3666	3056	2619	2291	2037	1834	1667	1528	1410	1309	1222	1146	1019	916	834	763	702	649	602	560	522	488	457	428	401	376	353	332	312
			D	.30	.34	.32	.32	.37	.34	.33	.33	.39	.45	.53	.61	.69	.87	1.08	1.30	1.55	1.83	2.14	2.48	2.85	3.25	3.68	4.14	4.63	5.14	5.68	6.25	6.85	7.48
5" (127)	22.7 (33.8)	36"	U	556	356	247	181	139	110	89	73	62	53	45	39	35	27	22	18	15	13	11	9	7	5	4	3	2	1				
			D	.39	.39	.33	.32	.33	.36	.39	.42	.51	.60	.69	.79	.91	1.15	1.40	1.67	1.96	2.28	2.63	3.01	3.41	3.84	4.30	4.79	5.30	5.84	6.41	7.01	7.64	
			C	3330	2667	2222	1905	1667	1481	1333	1212	1111	1026	952	889	833	774	714	667	607	556	504	452	400	350	300	250	200	150	100	50		
			D	.31	.31	.26	.26	.26	.29	.31	.34	.41	.46	.55	.64	.72	.82	.92	1.13	1.37	1.61	1.86	2.13	2.41	2.70	3.00	3.31	3.64	4.00	4.37	4.76	5.17	5.60

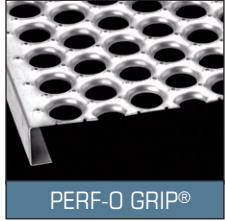
CLIPS & FASTENERS



A complete list of Clips and Fasteners is available on page 50.

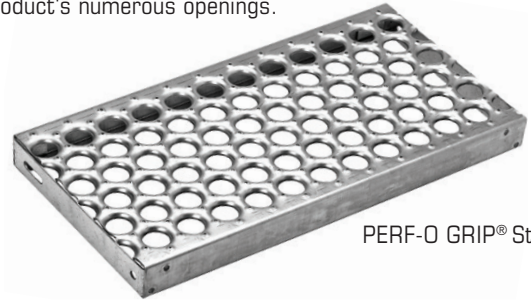
PERF-O GRIP® PLANK & WALKWAY

McNICHOLS PERF-O GRIP® is made up of large debossed holes and perforated buttons that provide slip resistance and performance in every direction. Fluids, mud, chips, snow, and other debris fall easily through the product's numerous openings.



PERF-O GRIP® PLANK

McNICHOLS PERF-O GRIP® Plank offers a high load capacity, long life, and high strength-to-weight performance. The aggressive grip surface enhances safety. Applications include walkways, ramps, catwalks, and more!

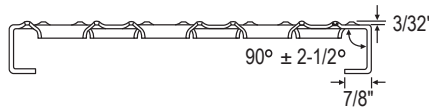


PERF-O GRIP® Stair Treads
page 49

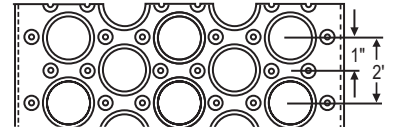
PRODUCT OPTIONS

Material: Aluminum, Carbon Steel, Galvanized Steel
Gauge: 13, 11, .1250" Thick (Aluminum)
Width: 5", 7", 10", 12", 18"
Depth: 1-1/2", 2"
Length: 120", 144"

End View



Top View



LOAD TABLE: 2-HOLE PLANK (6" WIDTH)

DEPTH		#/LF	CLEAR SPAN														
			2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	9'	10'	11'	12'
STEEL, 13 GAUGE																	
1-1/2"	2.6	U	2008	1287	895	659	505	400	325	269	227	168	130	103	85	70	60
		D	.05	.08	.11	.15	.20	.25	.31	.38	.45	.62	.82	1.04	1.30	1.57	1.90
		C	836	670	559	481	421	375	338	308	284	244	216	194	176	162	150
		D	.04	.06	.09	.12	.16	.20	.25	.30	.35	.49	.65	.83	1.04	1.27	1.52

LOAD TABLE: 3-HOLE PLANK (7" WIDTH)

DEPTH	#/LF	CLEAR SPAN															
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	9'	10'	11'	12'	
STEEL, 13 GAUGE																	
1-1/2"	3.0	U	1536	984	685	504	387	306	249	206	174	129	100	79	65	55	46
		D	.05	.07	.11	.14	.19	.24	.29	.36	.43	.58	.77	.98	1.22	1.51	1.81
		C	914	731	609	522	457	406	366	332	305	263	232	208	190	174	162
		D	.04	.06	.08	.12	.15	.19	.24	.29	.34	.47	.61	.78	.98	1.20	1.44
2"	3.3	U	1965	1473	1024	754	578	458	371	307	259	192	147	118	96	80	68
		D	.03	.06	.08	.11	.14	.18	.23	.27	.33	.44	.58	.74	.92	1.13	1.36
		C	1369	1096	913	783	685	609	548	498	456	391	344	308	279	257	237
		D	.03	.05	.07	.09	.12	.15	.18	.22	.26	.35	.47	.59	.74	.90	1.08

LOAD TABLE: 5-HOLE PLANK (10" WIDTH)

DEPTH #/LF		CLEAR SPAN															
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	9'	10'	11'	12'	
ALUMINUM, ALLOY TYPE 5052-H32, .1250" THICK																	
2"	1.8	U	1048	1022	710	522	400	316	256	212	178	131	101	80	65	54	46
		D	.05	.12	.18	.24	.31	.40	.49	.59	.71	.96	1.26	1.59	1.96	2.37	2.83
		C	1431	1145	954	818	715	636	572	520	477	409	358	318	286	260	238
		D	.06	.09	.13	.19	.25	.32	.39	.47	.57	.77	1.00	1.27	1.57	1.90	2.26
STEEL, 13 GAUGE																	
1-1/2"	3.5	U	963	745	517	380	291	230	187	154	129	95	73	58	46	38	32
		D	.04	.08	.11	.15	.19	.24	.30	.36	.43	.59	.77	.98	1.20	1.44	1.71
		C	855	684	645	554	485	431	388	353	323	277	242	216	191	176	162
		D	.03	.05	.09	.12	.15	.19	.24	.29	.35	.47	.61	.78	.95	1.16	1.39
2"	3.9	U	1735	1110	771	568	435	344	281	232	196	144	110	88	70	60	50
		D	.04	.06	.08	.11	.15	.18	.23	.28	.33	.45	.59	.75	.91	1.14	1.34
		C	1297	1038	865	741	648	645	584	532	489	422	368	327	297	267	245
		D	.02	.04	.05	.08	.10	.15	.18	.22	.26	.36	.47	.60	.79	.89	1.06

LOAD TABLE: 6-HOLE PLANK (12" WIDTH)

DEPTH #/LF		CLEAR SPAN															
		2	2'6"	3	3'6"	4	4'6"	5	5'6"	6	7	8	9	10	11	12	
ALUMINUM, ALLOY TYPE 5052-H32, .1250" THICK																	
2"	2.1	U	1463	936	650	478	366	290	235	194	163	120	93	73	60	49	41
		D	.08	.12	.17	.23	.30	.38	.47	.57	.68	.92	1.20	1.52	1.88	2.27	2.70
		C	1612	1290	1075	921	806	716	645	586	537	461	403	358	322	293	269
		D	.06	.09	.14	.18	.24	.30	.38	.45	.54	.74	.96	1.22	1.50	1.82	2.16
STEEL, 13 GAUGE																	
1-1/2"	4.3	U	669	655	456	336	258	204	166	138	117	87	67	54	44	37	31
		D	.03	.07	.10	.13	.17	.22	.27	.33	.40	.55	.72	.92	1.16	1.43	1.68
		C	960	819	684	588	516	460	416	380	349	303	268	241	218	198	182
		D	.03	.05	.08	.11	.14	.18	.22	.26	.32	.44	.58	.74	.91	1.11	1.32
2"	4.6	U	1510	966	671	493	378	299	243	201	170	126	97	77	63	53	45
		D	.03	.05	.07	.10	.13	.16	.20	.25	.29	.40	.53	.68	.85	1.03	1.25
		C	1442	1154	961	862	756	673	608	555	509	440	388	349	317	291	270
		D	.02	.04	.06	.08	.10	.13	.16	.20	.23	.32	.42	.54	.67	.82	.99
2"	5.5	U	1937	1240	861	633	486	385	312	259	218	161	124	99	80	67	57
		D	.03	.05	.07	.10	.13	.16	.20	.24	.29	.40	.52	.67	.83	1.01	1.22
		C	1881	1505	1292	1109	971	865	781	712	654	563	496	444	403	389	341
		D	.02	.04	.06	.08	.10	.13	.16	.20	.23	.32	.42	.54	.67	.81	.99

LOAD TABLE: 10-HOLE PLANK (18" WIDTH)

DEPTH	#/LF	CLEAR SPAN															
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	9'	10'	11'	12'	
ALUMINUM, ALLOY TYPE 5052-H32, .1250" THICK																	
2"	2.8	U	992	635	441	324	248	196	158	131	110	81	62	49	40	33	27
		D	.07	.10	.16	.21	.28	.35	.44	.53	.63	.86	1.12	1.42	1.75	2.11	2.52
		C	1652	1322	1102	944	826	734	661	601	551	472	413	367	330	300	275
		D	.05	.08	.13	.17	.22	.28	.35	.42	.50	.69	.89	1.13	1.40	1.69	2.01
STEEL, 10 GAUGE																	
1-1/2"	5.7	U	714	457	317	233	179	142	116	96	82	60	45	36	29	24	21
		D	.04	.07	.10	.13	.17	.21	.26	.32	.39	.52	.68	.86	1.05	1.27	1.56
		C	964	771	642	551	495	481	434	397	366	314	274	243	220	199	183
		D	.03	.04	.07	.09	.12	.17	.21	.26	.31	.42	.55	.69	.85	1.03	1.23
2"	6.0	U	1072	686	476	350	268	212	173	143	121	90	69	55	44	36	31
		D	.03	.05	.07	.10	.13	.16	.20	.24	.29	.40	.53	.67	.82	.98	1.19
		C	1452	1162	968	830	726	645	581	528	509	470	411	366	329	299	274
		D	.02	.03	.05	.06	.09	.12	.14	.17	.22	.32	.42	.53	.65	.79	.94

CLIPS, FASTENERS & ACCESSORIES

BOLT SEAT

MID-SUPPORT
CLIP

CARRIER PLATES

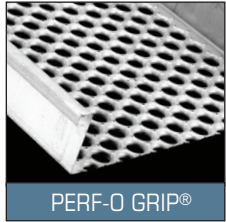


A complete list of Clips and Fasteners is available on page 50.



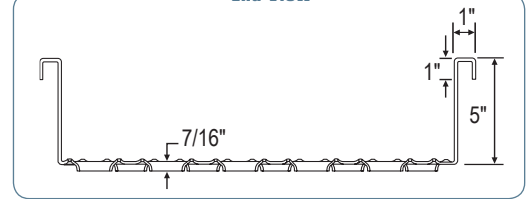
McNICHOLS® Plank Grating, PERF-O GRIP® Plank - Slip-Resistant Flooring

PERF-O GRIP® WALKWAY



McNICHOLS PERF-O GRIP® Walkway surface can help lessen worker fatigue and has a high load capacity, long life, and a high strength-to-weight performance. With 5-inch inverted (referred to as height) side channels, PERF-O GRIP® Walkway meets OSHA requirements for toeboards on elevated structures. The large open area (38% of surface area depending on product size) permits free flow of air, heat, and light.

End View



PRODUCT OPTIONS

Material: Carbon Steel, Galvanized Steel
Gauge: 13, 11
Width: 24", 30", 36"
Height: 5"
Length: 120"

FASTENER

BOLT SEAT



A complete list of Clips and Fasteners is available on page 50.

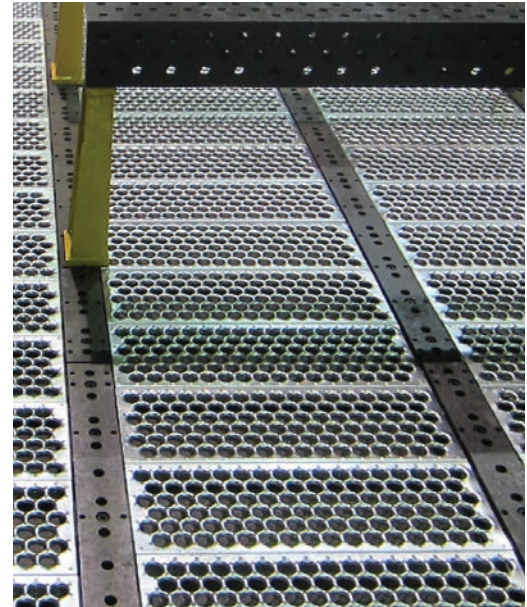
LOAD TABLE: 13-HOLE WALKWAY (24" WIDTH)

HT.	#/LF	CLEAR SPAN															
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	9'	10'	11'	12'	
STEEL, 11 GAUGE																	
5"	11.8	U	5751	3681	2556	1878	1438	1136	920	760	639	469	359	284	230	190	160
		D	.02	.02	.04	.05	.06	.08	.10	.12	.14	.19	.25	.31	.39	.47	.56
		C	9504	7603	6336	5431	4752	4224	3802	3456	3168	2715	2376	2112	1901	1728	1584
		D	.01	.01	.02	.03	.04	.05	.06	.07	.08	.11	.15	.19	.23	.28	.34

LOAD TABLE: 16-HOLE WALKWAY (30" WIDTH)

HT.	#/LF	CLEAR SPAN															
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	7'	8'	9'	10'	11'	12'	
STEEL, 11 GAUGE																	
5"	13.6	U	3868	2475	1719	1263	967	764	619	511	430	316	242	191	155	128	107
		D	.01	.02	.03	.04	.05	.06	.08	.10	.12	.16	.20	.26	.32	.39	.46
		C	9534	7627	6356	5448	4767	4237	3813	3467	3178	2724	2383	2119	1907	1733	1589
		D	.01	.01	.02	.03	.04	.05	.06	.07	.08	.11	.15	.19	.23	.28	.30

PLEASE NOTE: PERF-O GRIP® Walkway is also available in 36" width. Loading information is available at **800.237.3820**.



McNICHOLS® Plank Grating, PERF-O GRIP® - Flooring
Aurora, IL

TRACTION TREAD® PLANK

McNICHOLS TRACTION TREAD® Plank features a surface of raised perforated buttons with debossed holes that provide slip resistance in all directions. Planks are well suited for ADA-compliant applications.



PRODUCT OPTIONS

Material: Aluminum, Galvanized Steel
Gauge: 13, 11, .1250" Thick (Aluminum)
Width: 7", 10", 12"
Depth: 1-1/2", 2"
Length: 120", 144"

LOAD TABLE: 9-ROW PLANK (7" WIDTH)

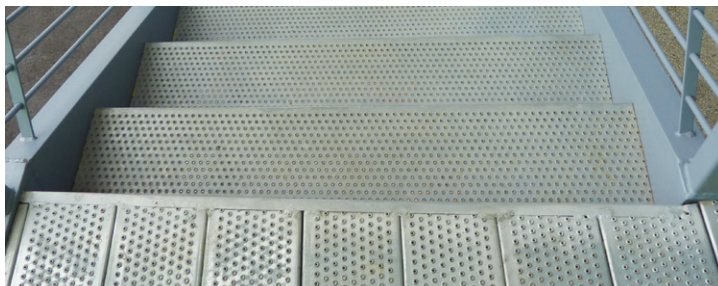
DEPTH	#/LF	CLEAR SPAN														
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	
GALVANIZED STEEL, 13 GAUGE																
2"	3.7	U	1642	1345	973	700	513	400	315	287	253	184	137	104	80	50
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	.25	.25	.25

LOAD TABLE: 14-ROW PLANK (10" WIDTH)

DEPTH	#/LF	CLEAR SPAN													
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	
ALUMINUM, ALLOY TYPE 5052-H32, .1250" THICK															
2"	2.2	U	560	469	332	239	175	137	107	98	86	63	47	35	27
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	.25	.25
GALVANIZED STEEL, 13 GAUGE															
2"	4.6	U	1267	1038	751	540	396	309	243	221	195	142	106	80	62
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	.25	.25

LOAD TABLE: 17-ROW PLANK (12" WIDTH)

DEPTH	#/LF	CLEAR SPAN													
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	
ALUMINUM, ALLOY TYPE 5052-H32, .1250" THICK															
2"	2.5	U	487	399	288	207	152	119	93	85	75	55	41	31	24
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	.25	.25
GALVANIZED STEEL 13 GAUGE															
2"	5.2	U	1101	902	652	469	344	268	211	192	170	123	92	70	54
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	.25	.25
GALVANIZED STEEL, 11 GAUGE															
1-1/2"	6.9	U	682	559	404	291	213	166	131	119	105	76	57	--	--
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	--	--
2"	7.3	U	1395	1143	827	595	436	340	268	244	215	156	116	88	68
		D	.02	.04	.06	.08	.10	.13	.15	.20	.25	.25	.25	.25	.25



McNICHOLS® Plank Grating, TRACTION TREAD® - Flooring and Stair
Treads, Bellingham, MA

GRATE-LOCK® INTERLOCKING PLANK



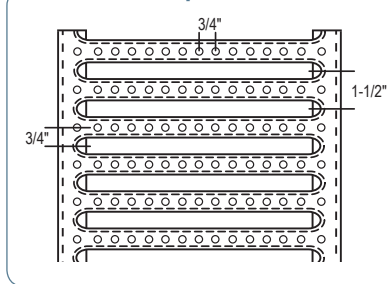
McNICHOLS GRATE-LOCK® Interlocking Plank Grating is an easy-to-install system of interlocking grating planks, treads and accessories. GRATE-LOCK® provides safe, sturdy footing for mezzanine floors, platforms, walkways and other applications where non-slip performance is required. Increased load performance can be realized through this unique design of interlocking, ventilated planks. The Planks' surface of long, round end slots provides an impressive open area of up to 45% that permits passage of water from ceiling sprinklers, air and light. Planks are easy to install with side channels (flanges) that interlock.

PRODUCT OPTIONS

Material: Galvanized Steel
Gauge: 18, 14
Width: 9", 12"
Depth: 1-1/2", 2-1/2", 3", 4" (Special Order)
Length: 120", 240", 288" (2-1/2" Depth),
 144" (1-1/2" Depth), 288" (3" Depth)
Flange: Male/Male, Female/Female, Female/Male

PLEASE NOTE: Only 2-1/2" channels may be punched.

Top View



LOAD TABLE: GRATE-LOCK® INTERLOCKING PLANK

GAUGE	WIDTH	% O/A	#/LF	1-1/2" CHANNEL DEPTH CLEAR SPAN (LF)																	
				2'	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	8'6"	9'	10'	11'	12'	
18	9"	43%	2.3	U	591	263	193	147	116	94	78	65	56	48	42	37	32	29	23	19	16
				D	.10	.14	.18	.22	.27	.33	.40	.48	.56	.65	.74	.84	.95	1.06	1.31	1.59	1.89
				C	440	293	251	220	195	176	160	146	135	125	117	110	103	97	88	80	73
				D	.04	.10	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68	.77	.86	1.06	1.28	1.54
	12"	45%	2.9	U	443	196	144	110	87	70	58	49	41	36	31	27	24	21	17	14	12
				D	.10	.14	.18	.22	.27	.33	.40	.48	.56	.65	.74	.84	.95	1.06	1.31	1.59	1.89
14	9"	38%	3.5	U	891	396	291	222	176	142	117	99	84	72	63	55	49	44	35	29	24
				D	.10	.14	.18	.22	.27	.33	.40	.48	.56	.65	.74	.84	.95	1.06	1.31	1.59	1.89
				C	663	442	379	331	295	265	241	221	204	189	177	165	156	147	132	120	110
				D	.04	.10	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68	.77	.86	1.06	1.28	1.54
	12"	40%	4.2	U	667	296	217	166	131	106	88	74	63	54	47	41	36	32	26	22	18
				D	.10	.14	.18	.22	.27	.33	.40	.48	.56	.65	.74	.84	.95	1.06	1.31	1.59	1.89
GAUGE	WIDTH	% O/A	#/LF	2-1/2" CHANNEL DEPTH CLEAR SPAN (LF)																	
				2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	
18	9"	43%	3.0	U	1552	691	390	251	175	129	100	79	65	54	46	40	35	30	27	24	21
				D	.05	.10	.18	.28	.41	.56	.74	.95	1.18	1.44	1.73	2.05	2.41	2.80	3.22	3.69	4.01
				C	705	705	585	470	394	339	299	268	243	223	207	193	181	171	163	153	145
				D	.02	.07	.14	.23	.33	.45	.59	.76	.94	1.15	1.38	1.64	1.93	2.24	2.58	2.91	3.27
	12"	45%	3.5	U	1057	552	312	200	140	103	80	64	52	43	36	31	27	23	20	18	16
				D	.03	.10	.17	.27	.39	.54	.71	.90	1.13	1.38	1.61	1.91	2.23	2.47	2.83	3.20	3.60
14	9"	38%	4.4	C	529	529	529	501	420	362	319	286	260	239	217	207	194	184	175	167	160
				D	.01	.05	.12	.22	.31	.43	.57	.72	.90	1.09	1.33	1.57	1.85	2.15	2.48	2.85	3.24
				U	2357	1050	593	381	266	196	151	121	98	82	70	58	50	45	40	36	32
				D	.04	.10	.18	.28	.41	.56	.74	.94	1.17	1.43	1.72	1.88	2.21	2.57	2.96	3.39	3.85
	12"	40%	5.2	C	974	974	889	714	598	516	454	407	369	339	314	282	265	250	238	227	218
				D	.02	.07	.14	.23	.33	.45	.59	.75	.94	1.14	1.38	1.50	1.77	2.05	2.37	2.71	3.08
14	12"	40%	5.2	U	1276	783	442	284	199	147	113	90	74	62	52	44	38	35	29	28	25
				D	.03	.10	.17	.27	.39	.54	.71	.91	1.13	1.38	1.63	1.94	2.20	2.70	2.92	3.58	4.08
				C	730	730	730	711	596	514	454	407	370	338	310	286	266	248	233	219	207
				D	.01	.05	.12	.22	.31	.43	.57	.72	.90	1.09	1.31	1.53	1.77	2.04	2.33	2.63	2.96

This technical information provided is a reference for evaluation by technically skilled persons only, with any use thereof to be at their independent discretion and risk. **McNICHOLS** shall have no responsibility or liability for results obtained or damages resulting from improper evaluation or use of Grating.

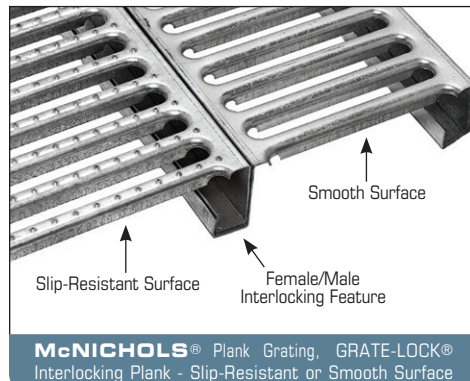
ALLOWABLE LOADS AND DEFLECTIONS: U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load

These tables are prepared based on test conducted in accordance with the 1980 edition, section 6.2 of the American Iron and Steel Institute specification for the design of cold-rolled steel structural members with results checked and adjusted where required by calculations in accordance with section 2 of the same specification. (■) Safe Allowable Loads with deflections equal to or less than L/120 (■) Safe Allowable Loads with deflections equal to or less than L/240

CLIPS & FASTENERS

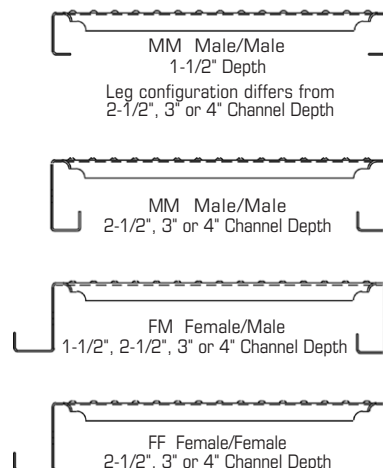


A complete list of Clips and Fasteners is available on page 50.



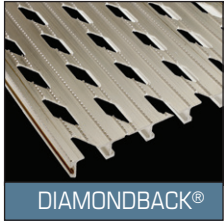
McNICHOLS® Plank Grating, GRATE-LOCK® Interlocking Plank - Slip-Resistant or Smooth Surface

Flange End View



DIAMONDBACK® INTERLOCKING PLANK

McNICHOLS DIAMONDBACK® Interlocking Plank offers excellent strength and stability for walkways, platforms, mezzanines, catwalks, and other unsupported structures. The ventilated design prevents the build-up of debris like dirt, grease, and snow. When slip resistance is critical, this serrated surface Plank is the answer! DIAMONDBACK® Interlocking Plank is ADA-compliant when you choose our solid surface option.

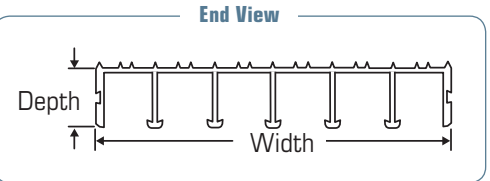


McNICHOLS DIAMONDBACK® Interlocking Plank is made using an Aluminum extrusion process. The Plank has a solid surface profile or is vented with angled openings. Both options have lines of raised serrations running parallel to the Plank length. The sides of the Plank channel have dovetail interlocking slots. Dovetail Bar Interlocks slide into the slots in the channel to connect or lock adjacent panels. **McNICHOLS** also carries a DIAMONDBACK® Stair Tread/Plank panel without the dovetail interlocking slots in the side channels.

LOAD TABLE: DIAMONDBACK® EXTRUDED INTERLOCKING PLANK (ALUMINUM)

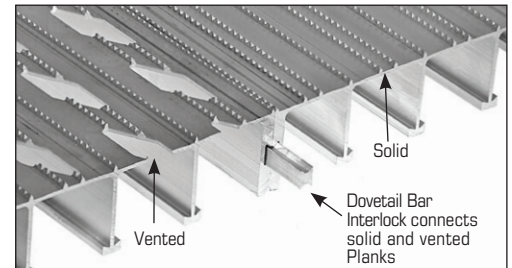
DEPTH	WIDTH	#/LF	SPAN															
			2'	2' 6"	3'	3' 6"	4'	4' 6"	5'	5' 6"	6'	6' 6"	7'	7' 6"	8'	8' 6"		
1"	6"	1.45	U	1328	850	590	433	332	262	212	175	147	U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load - Lbs./Square Foot of Width at Mid Span					
		D	.199	.312	.448	.610	.797	1.008	1.299	1.502	1.787							
	12"	3.06	C	1328	1062	885	759	664	590	531	483	442						
	12"	2.68	D	.182	.249	.359	.489	.638	.807	.996	1.206	1.433						
1-1/2"	12"	3.67	U	2612	1671	1161	853	653	516	418	345	290	247	213	185	163		
			D	.184	.214	.318	.485	.547	.692	.855	1.033	1.230	1.443	1.673	1.915	2.184		
			C	2612	2089	1741	1492	1306	1161	1044	949	870	803	746	696	653		
			D	.109	.171	.246	.335	.438	.554	.683	.827	.984	1.154	1.340	1.537	1.750		
2"	12"	4.30	U	4193	2683	1863	1369	1048	828	671	554	466	397	342	298	262	232	
			D	.187	.197	.251	.320	.418	.529	.653	.789	.940	1.104	1.279	1.468	1.671	1.886	
		3.91	C	4193	3354	2795	2396	2096	1863	1677	1524	1397	1290	1198	1118	1048	986	
			D	.084	.131	.188	.256	.334	.423	.522	.632	.752	.883	1.024	1.181	1.337	1.509	

Loads and deflections in this table are theoretical and based on blending stress of 19,000 PSI. The specifier is responsible for verifying conformance of this product with applicable codes associated with its intended use. Spans in the blue shaded area will give deflection less than 1/4" for a Uniform Load of 100 Lbs./Square Foot.



PRODUCT OPTIONS

Material: Aluminum Alloy Type 6061-T6
 Surface: Solid, Vented
 Width: 6", 12"
 Depth: 1", 1-1/2", 2"
 Length: 144"



McNICHOLS® Plank Grating, DIAMONDBACK® Interlocking Plank - Solid or Vented, Serrated Surface

HEAVY-DUTY EXTRUDED PLANK



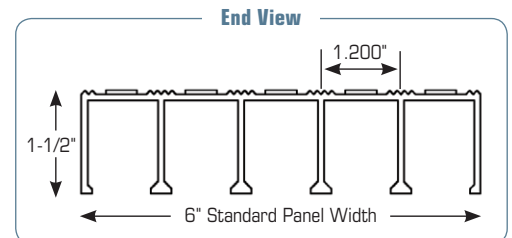
An alternative to Bar Grating, **McNICHOLS**® Heavy-Duty Extruded Plank is made using an extrusion process that yields a structurally sound and cosmetically attractive product. The interconnecting webs offer a flush top walking surface. The surface on standard Heavy-Duty Plank is vented with a square or rectangular-shaped upset pattern and long raised grooves running parallel to the plank length. Short raised grooves run perpendicular to the slot width.

LOAD TABLE: HEAVY-DUTY EXTRUDED PLANK (ALUMINUM)

DPT.	#/LF	PED SPAN IN.	SPAN													
			2'	2' 6"	3'	3' 6"	4'	4' 6"	5'	5' 6"	6'	6' 6"	7'	8'		
3/4"	1.8	39"	U	435	278	193	142	108	85	69	Theoretical values based on unit stress of 12,000 PSI. U - Uniform Load - Lbs./Square Foot D - Deflection - in Inches C - Concentrated Load - Lbs./Square Foot of Width at Mid Span					
			D	.121	.237	.342	.465	.608	.770	.950						
			C	435	348	290	248	217	193	174						
			D	.121	.190	.273	.371	.485	.614	.760						
1"	2.2	49"	U	833	533	370	272	208	164	133	110	92				
			D	.124	.193	.279	.380	.496	.628	.775	.938	1.117				
			C	833	666	555	476	416	370	333	302	277				
			D	.099	.155	.223	.304	.396	.502	.620	.748	.891				
1-1/2"	3.4	67"	U	2167	1387	963	707	541	428	346	286	240	205	176	135	
			D	.090	.141	.203	.277	.362	.458	.566	.684	.815	.956	1.109	1.449	
			C	2167	1734	1445	1238	1083	963	867	788	722	666	619	541	
			D	.072	.113	.163	.221	.289	.366	.452	.547	.651	.764	.887	1.157	

PRODUCT OPTIONS

Material: Aluminum Alloy Type 6063-T6
 Width: 6"
 Depth: 3/4", 1", 1-1/2", 2"
 Length: 240"



McNICHOLS® Heavy-Duty Extruded Plank - Drain Cover, Boston, MA

PLANK GRATING STAIR TREADS

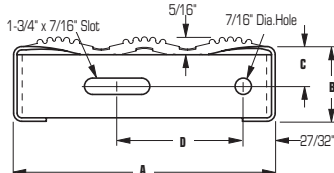
McNICHOLS® Plank Grating Stair Treads are one-piece construction from formed and punched sheet metal. Most Plank Grating Treads are lightweight and offer significantly higher slip resistance than Bar Grating Treads. Plank Treads have a variety of surface openings that have diamond, slotted or round shapes. They are available in Aluminum, Carbon Steel, Galvanized Steel, or Stainless Steel in a variety of depths, widths, and lengths.



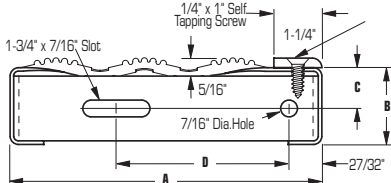
GRIP STRUT® STAIR TREADS

McNICHOLS GRIP STRUT® Stair Treads offer one of the most slip-resistant surfaces in the industry. The tread's surface has diamond-shaped openings with serrated edges, making it slip resistant in every direction. Planks have a high strength-to-weight performance that offers a high load capacity and long life. For details on GRIP STRUT® Plank Grating, please refer to page 42.

Standard End View



End View with Nosing



GRIP STRUT® STAIR TREAD DATA

STANDARD				CAST ABRASIVE NOSING			
A	B	C	D	A	B	C	D
4-3/4\"W	1-1/2\"	3/4\"	2-5/8\"	--	--	--	--
(2-Dia.)	2\"	1\"	2-5/8\"	--	--	--	--
7\" W	1-1/2\"	3/4\"	3-3/8\"	8-1/8\"	1-1/2\"	3/4\"	4-1/2\"
(3-Dia.)	2\"	1\"	3-3/8\"	(3-Dia.)	2\"	1\"	4-1/2\"
9-1/2\"W	1-1/2\"	3/4\"	5-7/8\"	10-1/2\"	1-1/2\"	3/4\"	6-7/8\"
(4-Dia.)	2\"	1\"	5-7/8\"	(4-Dia.)	2\"	1\"	6-7/8\"
11-3/4\"W	1-1/2\"	3/4\"	8-1/8\"	--	--	--	--
(5-Dia.)	2\"	1\"	8-1/8\"	--	--	--	--

Above data for Aluminum, Steel and Stainless Steel. Stainless Steel is not available in 2- and 3-Diamond widths. Standard manufacturing tolerances apply.

STANDARD SIZE & SPAN

SPAN	DPT.	WIDTH	
		STANDARD	CAST ABRASIVE NOSING
ALUMINUM ALLOY, TYPE 5052-H32, .0800" THICK			
UP to 36"	2"	2-Dia. - 4-3/4"	--
		3-Dia. - 7"	3-Dia. - 8-1/8"
		4-Dia. - 9-1/2"	4-Dia. - 10-1/2"
		5-Dia. - 11-3/4"	--
STEEL, 14 GAUGE			
UP to 48"	1-1/2"	2-Dia. - 4-3/4"	--
		3-Dia. - 7"	3-Dia. - 8-1/8"
		4-Dia. - 9-1/2"	4-Dia. - 10-1/2"
		5-Dia. - 11-3/4"	--
UP to 48"	2"	2-Dia. - 4-3/4"	--
		3-Dia. - 7"	3-Dia. - 8-1/8"
		4-Dia. - 9-1/2"	4-Dia. - 10-1/2"
		5-Dia. - 11-3/4"	--
STAINLESS STEEL, TYPE 304 (16 GA)			
UP to 36"	2"	4-Dia. - 9-1/2"	--
		5-Dia. - 11-3/4"	--

Please specify
McNICHOLS
on your next project.

Thank you!

PRODUCT OPTIONS

Material:	Aluminum, Carbon Steel, Galvanized Steel, Stainless Steel
Gauge:	16 (Stainless), 14, 12, .0800\" Thick (Alum.)
Width:	4-3/4\" to 11-3/4\"
Depth:	1-1/2\", 2\"
Length/Span:	Up to 36\" Alum. or SS; up to 48\" Steel

LOAD TABLE: TREADS (STEEL)

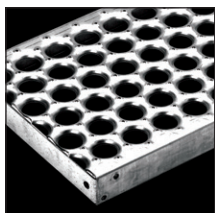
SPAN	DPT.	2-DIAMOND		3-DIAMOND		4-DIAMOND		5-DIAMOND	
		U	C	U	C	U	C	U	C
20\"	1-1/2\"	1191	472	761	443	549	435	434	425
	2\"	1978	783	1262	737	911	604	721	573
26\"	1-1/2\"	764	378	488	356	355	349	278	342
	2\"	1268	611	810	590	584	578	463	566
30\"	1-1/2\"	532	315	340	300	245	300	194	300
	2\"	882	524	563	492	407	483	322	473
40\" *	2\"	498	394	318	372	230	364	182	356

LOAD TABLE: TREADS (ALUMINUM & STAINLESS STEEL)

SPAN	DPT.	2-DIA.		3-DIA.		4-DIA.		5-DIA.	
		U	C	U	C	U	C	U	C
2\"	2\"	1328	526	862	503	607	481	610	483
	2\"	850	420	551	402	388	392	390	387
3\"	2\"	590	350	383	335	270	327	271	323
	2\"	332	263	215	252	152	245	152	244
4\"	2\"	332	263	215	252	152	244	99	241
	2\"	332	263	215	252	152	244	99	241

* Intermediate stringer is recommended for spans over 4\".

Load table data above takes eccentric loads into consideration. Although load values include allowances for normal impact conditions and usual pedestrian traffic, be sure to make provisions in the structural design for special uses and load involving unusual impact forces or vibratory forces. Load-carrying capacity of Stair Treads increases as side channel height and gauge of material increases.



PERF-O GRIP® STAIR TREADS

McNICHOLS PERF-O GRIP® Stair Treads can help prevent injuries by providing a slip-resistant surface of large debossed holes and smaller embossed button holes. The Treads have a high load capacity, long life, and high strength-to-weight performance.

For details on PERF-O GRIP® Plank Grating, please refer to page 45.

PRODUCT OPTIONS

Material:	Aluminum, Carbon Steel, Galvanized Steel
Gauge:	13, 11, .1250\" Thick (Aluminum)
Width:	5\", 7\", 10\", 12\"
Depth:	1-1/2\", 2\"
Length/Span:	24\", 30\", 36\"



TRACTION TREAD® STAIR TREADS

McNICHOLS TRACTION TREAD® Stair Treads feature a surface of hundreds of raised perforated buttons with debossed holes that provide slip resistance in all directions. The Treads are perfectly suited for ADA-compliant applications.

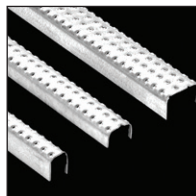
For details on TRACTION TREAD® Plank Grating, please refer to page 46.

PRODUCT OPTIONS

Material:	Aluminum, Galvanized Steel
Gauge:	13, 11, .1250\" Thick (Aluminum)
Width:	7\", 10\", 12\"
Depth:	1-1/2\", 2\"
Length/Span:	24\", 30\", 36\", 48\"

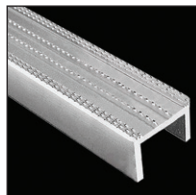
LADDER RUNGS

When strength, safety, and weight are considerations, **McNICHOLS®** Ladder Rungs are the product of choice. All product types have varying degrees of slip resistance to help provide dependable footing. Ladder Rungs can be cut to your size requirements.



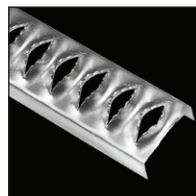
TRACTION TREAD® RUNGS

McNICHOLS TRACTION TREAD® Ladder Rungs are available in Aluminum, Carbon Steel, Galvanized, or Stainless Steel. They are available in 1-1/4" to 2-1/4" widths, 48-3/4" and 60" lengths, and range from 1-1/8" to 1-1/2" in depth. Ladder Rungs come in 2-, 3-, or 4-button rows.



DIAMONDBACK® RUNGS

McNICHOLS DIAMONDBACK® Ladder Rungs are available with a solid or vented surface. The Rungs have 1-3/4" width with a 1.390" depth and are available in 144" lengths or cut-to-size. Radius end cut Rungs are available by special order. Solid serrated surface is also available.



GRIP STRUT® RUNGS

McNICHOLS GRIP STRUT® Ladder Rungs have channels of diamonds that provide high traction footing in all directions. These aggressive Rungs come in Carbon Steel or Galvanized Steel and have a 1-1/8" depth. Standard size width is 2-1/2" and 120" in length. Diamonds can run the opposite direction by special order.



GRIP TIGHT® RUNG COVERS

McNICHOLS GRIP TIGHT® Ladder Rung Covers are constructed with a slip-resistant Aluminum Oxide grit surface coating over 16 Gauge Pre-Galvanized Steel. The 3/4" wide Cover has a 3/4" depth, and our 1" wide Cover option has a 1" depth. Covers come in 120" lengths or can be cut-to-size.

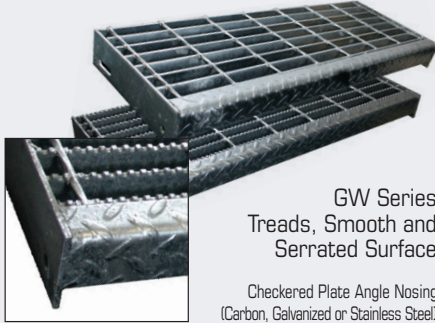
GRATING CLIPS & FASTENERS

BAR	Type CB  Saddle Clip placed over two bearing bars, fastens to support. Material: Aluminum, Galvanized Steel, Stainless Steel Product: Bar Grating (Welded, Press-Locked, Swage-Locked) Fit: 1-3/16" bearing bar spacing (Type CA for 15/16" bearing bar spacing) Hardware: Available Separately	Type GFS  Saddle Clip with cast malleable iron body, and one offset wing, fastens to support. Material: Galvanized Steel Body, Stainless Steel Bracket Product: Bar Grating Fit: Fits 5/8" to 1-3/8" bearing bar spacing; Adjusts up to 1-3/4" bearing bar height Hardware: Integral with Saddle Clip	Type GG  Hold-Down Clip attaches Grating to Structural Shape in a horizontal plane. Material: Galvanized Steel, Stainless Steel Product: Bar Grating Fit: 15/16" to 1-1/16" bearing bar spacing Hardware: Integral with Hold-Down Clip
	Type Z  Hold-Down Clip secures panel to support frame. Material: Stainless Steel Product: Most rectangular Bar Grating Fit: 1", 1-1/2" bearing bar height Hardware: Available Separately	Type J  Hold-Down Clip secures panel to support frame. Material: Stainless Steel Product: Most rectangular Bar Grating Fit: 1", 1-1/2" bearing bar height Hardware: Integral with Hold-Down Clip	Type RSSGC1C  Hold-Down Clip fastens to horizontal flange on Structural Shape. Material: Stainless Steel Product: Bar Grating (Press-Locked - CLOSE MESH), Fiberglass Grating Fit: 3/8" bearing bar spacing Hardware: Integral with Hold-Down Clip
FIBERGLASS	Type F  Hold-Down Clip joins panels together at adjacent bars. Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2", 2" grid height Hardware: Integral with Hold-Down Clip	Type Z  Hold-Down Clip secures panel to support frame. Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2" grid height Hardware: Available Separately	Type J  Hold-Down Clip secures panel to support frame. Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2" grid height Hardware: Integral with Hold-Down Clip
	Type M  Hold-Down Saddle Clip placed over two bars, fastens to support. Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2", 2" grid height Hardware: With or Without	Type MI/MT  Saddle Clip placed over two I-Bars (MI) or two T-Bars (MT), fastens to support. Material: Stainless Steel Product: Pultruded I-Bar and T-Bar Grating Fit: 1", 1-1/2", 2" bearing bar height Hardware: With or Without	Type RI/RT  Insert slides between two I-Bars (RI) or two T-Bars (RT), holding bottom flange to support. Material: Stainless Steel Product: Pultruded I-Bar and T-Bar Grating Fit: Any height Hardware: Integral with Insert
PLANK	DIAMOND ANCHOR  Device fits in opening, fastens to support. Material: Galvanized Steel, Stainless Steel Product: GRIP STRUT® Fit: Plank and Walkway Hardware: Available Separately	H-BC-10 SADDLE  Saddle Clip slides into opening, fastens to support. Material: Galvanized Steel, Stainless Steel Product: Heavy-Duty GRIP STRUT® Fit: All Plank and Walkway Hardware: Available Separately	ACA  Anchor and Clamp Assembly, hold Planks together, clamps to support. Material: Galvanized Steel Product: GRIP STRUT® Fit: 1-1/2" & 2" Channel Depth Hardware: Integral with Assembly
	J-BOLT  Fastener holds Grating channel to support. Material: Galvanized Steel Product: GRATE-LOCK® Fit: 2-1/2" Channel Depth Hardware: Integral with J-Bolt	MHC CLAMP  Hold-Down Clamp slides into Grating slot, fastens to support. Material: Galvanized Steel Product: GRATE-LOCK® Fit: 2-1/2" Channel Depth Hardware: Available Separately	BOLT SEAT  Fastener slid into round opening, fastens to support. Material: Galvanized Steel Product: PERF-O GRIP® Fit: All Plank and Walkway Hardware: Available Separately
	MID-SUPPORT CLIP  Clip used at mid-span, fastening Plank side channels together to improve loading. Material: Galvanized Steel Product: GRIP-STRUT®, PERF-O GRIP®, TRACTION TREAD® Fit: All Plank Hardware: Integral with Mid-Support Clip	SPLICE PLATE KIT  Splice Plate Kit joins continuous Planks in a run over supports. Material: Galvanized Steel Product: GRIP-STRUT® Walkway Fit: Connects Walkway ends together Hardware: Integral with Splice Plate Kit	<p>McNICHOLS carries more Clips and Fasteners than shown. Our full stock list is available at mcnichols.com!</p>

BAR, FIBERGLASS & PLANK GRATING STAIR TREADS

When strength, safety, and load bearing capability are required, **McNICHOLS®** Stair Treads are the product of choice. Bar or formed Plank style Stair Treads suit a variety of stairway applications. Treads are available from stock in materials such as Aluminum, Carbon Steel, Carbon Steel (Powder Coated Black), Fiberglass, Galvanized Steel, and Stainless Steel. Bar styles are available with several Nosing options (shown below).

BAR GRATING - STAIR TREADS



GW Series
Treads, Smooth and
Serrated Surface

Checkered Plate Angle Nosing
(Carbon, Galvanized or Stainless Steel)



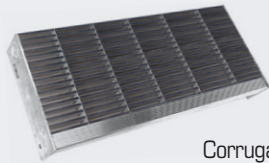
GAL Series
Treads, Smooth or
Serrated Surface

Corrugated Angle Nosing
(Aluminum Only)

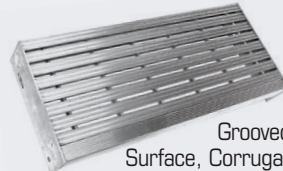


GHB Series
Treads, Smooth or
Serrated Surface

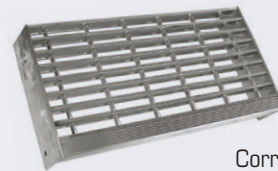
Checkered Plate Angle Nosing



GCM Series
(CLOSE MESH)
Treads,
Smooth Surface,
Corrugated Angle Nosing

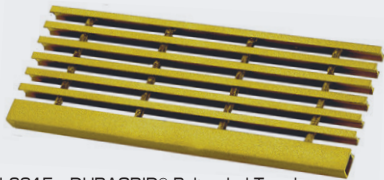


SAFE-T-GRID®
T-Bar Treads,
Grooved or GRIP TIGHT®
Surface, Corrugated Angle Nosing



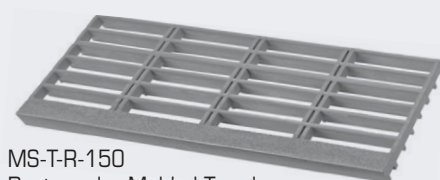
GIA Series
I-Bar Treads,
Grooved Surface,
Corrugated Angle Nosing

FIBERGLASS GRATING - STAIR TREADS



MS-T-I-6015 - DURAGRID® Pultruded Tread

For more information about
McNICHOLS DURAGRID®
Fiberglass Grating, please visit page 37.



MS-T-R-150
Rectangular Molded Tread

For more information about
McNICHOLS® Rectangular
Molded, please visit page 35.



MS-T-C Molded Tread Cover

For more information about
McNICHOLS® Molded Tread
Covers, please visit page 35.

PLANK GRATING - STAIR TREADS



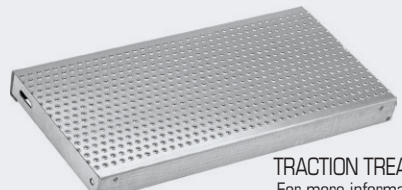
GRIP STRUT® Tread

For more information about
McNICHOLS GRIP STRUT®
Plank Grating, please visit page 42.



PERF-O GRIP® Tread

For more information about
McNICHOLS PERF-O GRIP®
Plank Grating, please visit page 45.



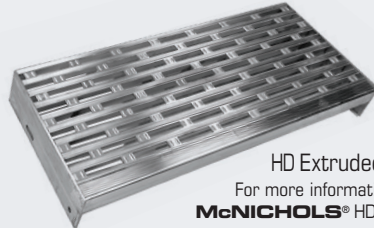
TRACTION TREAD® Tread

For more information about
McNICHOLS TRACTION TREAD®
Plank Grating, please visit page 46.



GRATE-LOCK® Tread

For more information about
McNICHOLS GRATE-LOCK®
Plank Grating, please visit page 47.



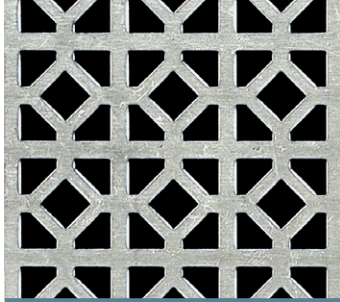
HD Extruded Tread

For more information about
McNICHOLS® HD Extruded
Plank Grating, please visit page 48.

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processing equipment so your
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and accurately!

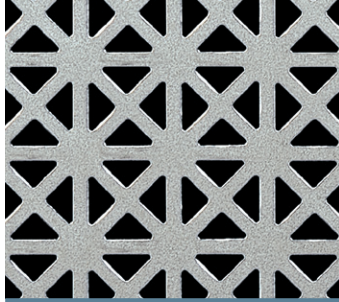
McNICHOLS® DESIGNER METALS

Architects, contractors, and designers choose **McNICHOLS®** Designer Metals for their versatility and elegance. Selections include **McNICHOLS®** Perforated and Expanded Metals, Wire Mesh, and Textured Metals, all available in a myriad of materials, patterns, and styles. Our Architectural Products Team understands how product facets like configuration, material type, gauge, open area, recycled content, and finish may influence your design. We offer years of product and application experience and are ready and **Inspired to Serve®** you!



WINDSOR

Aluminum, Alloy Type 3003-H14,
.0400" Thick (18 Gauge), 35% O/A



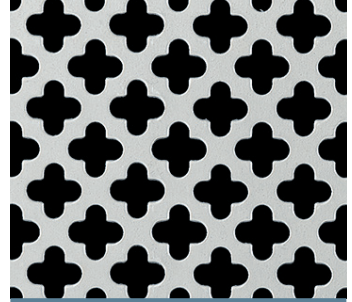
GRECIAN

Aluminum, Alloy Type 3003-H14,
.0320" Thick (20 Gauge), 35% O/A



MAJESTIC

Carbon Steel, Cold Rolled,
20 Gauge (.0359" Thick), 40% O/A



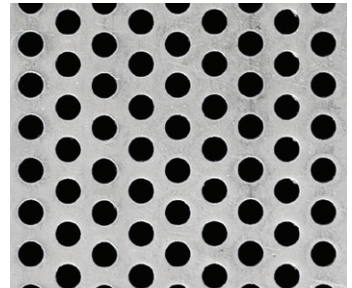
FULL CLOVERLEAF

Aluminum, Alloy Type 3003-H14,
.0320" Thick (20 Gauge), 51% O/A

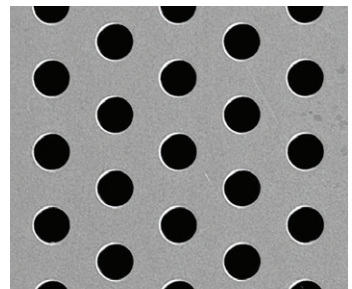
We welcome you to explore the pages of the **McNICHOLS®** Designer Metals Catalog. This comprehensive resource will guide you through Designer Metal patterns that will make your project unforgettable. Digital versions of this and other industry-leading product catalogs are ready for your preview at mcnichols.com, or one of our product experts would be pleased to forward you hardcopies. We are ready and **Inspired to Serve®** you at **866.754.5144** or designermetals@mcnichols.com.



The architectural design team for The Summit, an adult recreational activity center, Grand Prairie, TX, chose two patterns of **McNICHOLS®** Perforated Metal to achieve their vision of an energy-efficient facility and to enhance the structure's design.



Perforated, Aluminum, Alloy Type 3003-H14, 3/16" Round on 5/16" Staggered Centers, .1250" Thick (8 Gauge), 32% O/A



Perforated, Aluminum, Alloy Type 3003-H14, 1/4" Round on 1/2" Staggered Centers, .2500" Thick (1/4" Gauge), 23% O/A

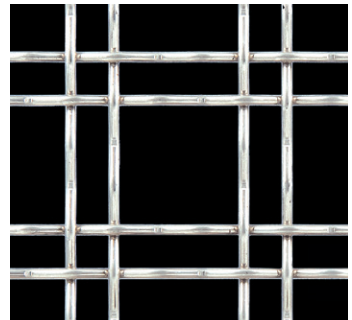
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McNICHOLS® Designer Wire Mesh is constructed of wires that are woven into a variety of unique patterns. Wire Mesh applications include ceilings tiles, infill panels, decorative overlay surfaces, wall cladding, sunshades, partitions, guard rails, view screens around equipment or service areas, and signage/sign backing. Our full collection of Designer Wire Mesh is available at mcnichols.com.

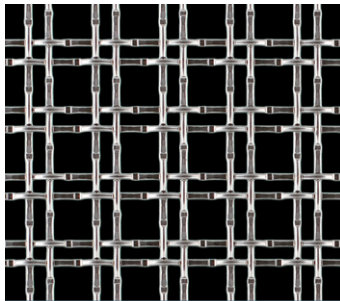


McNICHOLS® Wire Mesh, Designer Mesh, **TECHNA™ 3150**, Stainless Steel, Type 304, Woven - Double Wire Intercrip Weave, 74% O/A, railing infill panels transform this stairway at a Walsh University dormitory.

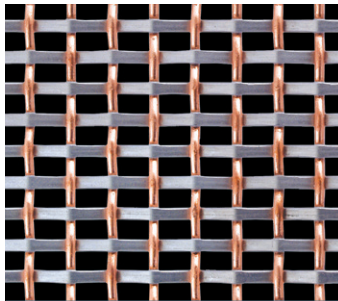
McNICHOLS® DESIGNER METALS



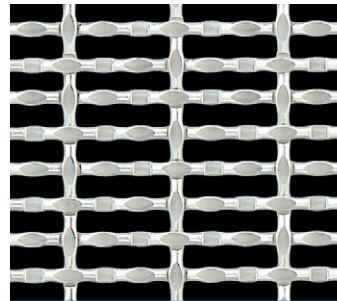
TECHNA™ 3150
Stainless Steel, Type 304, Woven -
Double Wire Intercrip Weave, 74% O/A



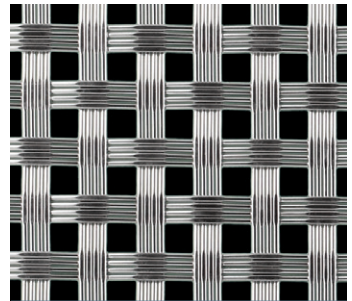
TALICA™ 8146
Stainless Steel, Type 304, Woven -
Twin Wire Flat Top Weave, 61% O/A



SHIRE™ 8148
Copper/Stainless Steel, Type 304, Woven -
Flat Warp/Round Fill Weave, 41% O/A

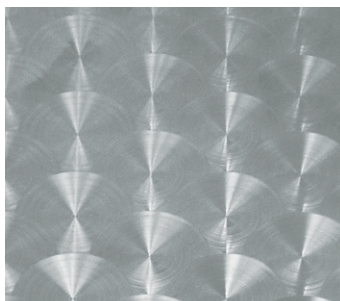


CHATEAU™ 3115
Stainless Steel, Type 304, Woven -
Modified Intercrip/Plain Weave, 56% O/A



TALICA™ 8158
Stainless Steel, Type 304, Woven -
Four Wire Weave, 34% O/A

McNICHOLS® Designer Textured Metals are especially popular in high traffic areas, disguising imperfections while providing beautiful appeal and dimension. Textured Metal surfaces can hide small dings, scratches, and even fingerprints that disrupt flat, polished metals. Our Architectural Products Team is ready to assist you with your selection at **866.754.5144** or designermetals@mcnichols.com.



ENGINE TURN
Stainless Steel, Type 304, Bright
Annealed Finish, 22 Gauge (.0291" Thick)



DIAMOND QUILT
Stainless Steel, Type 304,
Satin #4 Finish, 22 Gauge (.0291" Thick)



TREADTEX®
Aluminum, Alloy Type 3003-H14,
2-B Finish, .0630" Thick (14 Gauge)



LEATHER GRAIN
Stainless Steel, Type 304, Satin #4
Finish, 20 Gauge (.0355" Thick)



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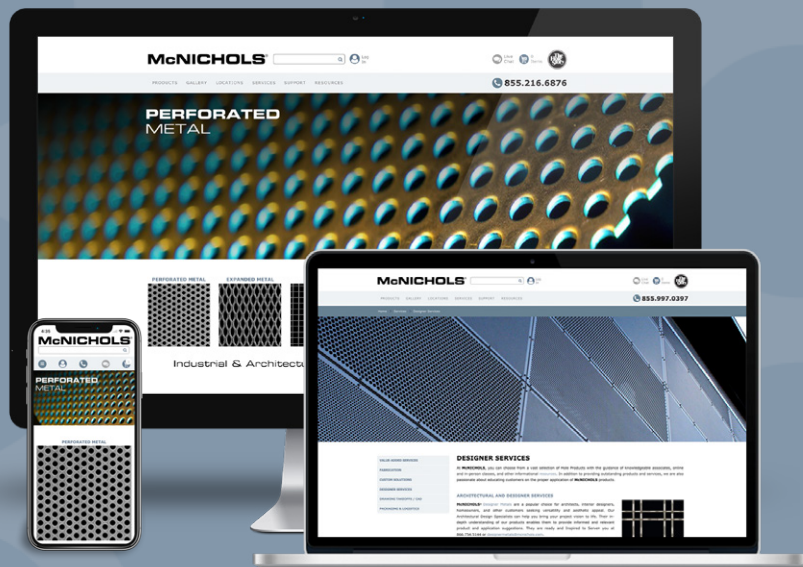
**APPLICATION
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