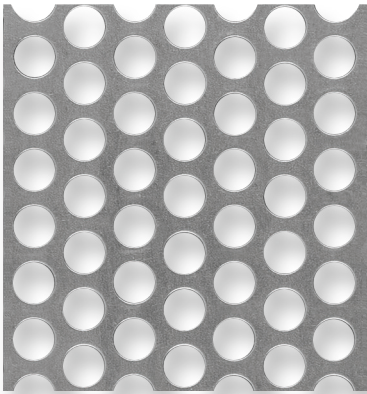


65th
Anniversary

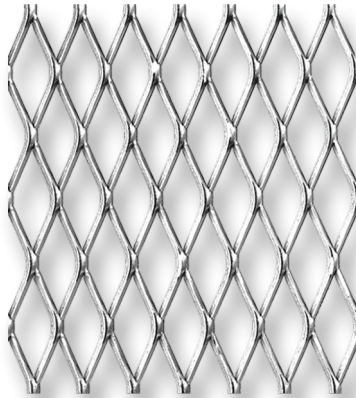
McNICHOLS®

MC17

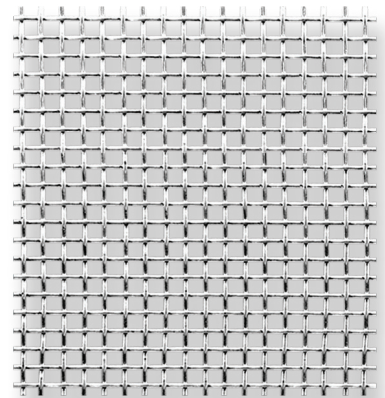
MASTER CATALOG



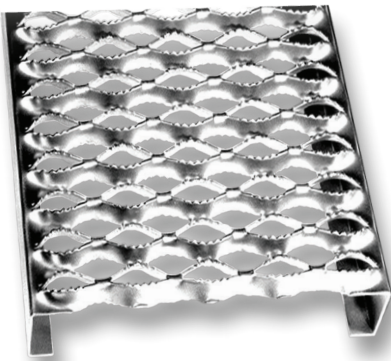
PERFORATED METAL



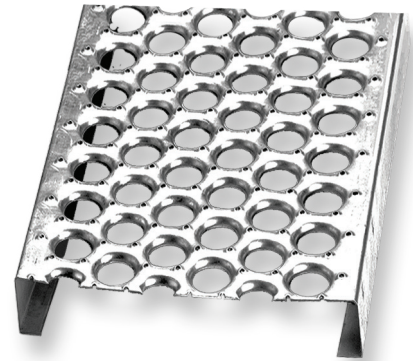
EXPANDED METAL



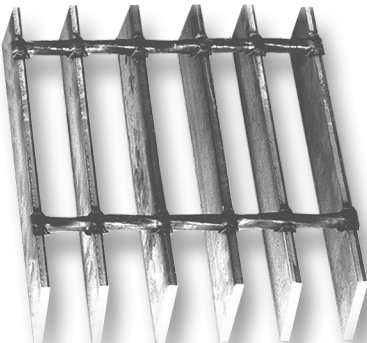
WIRE MESH



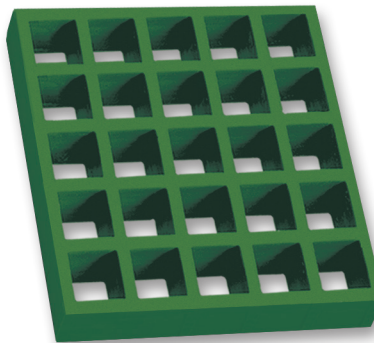
GRIP STRUT® GRATING



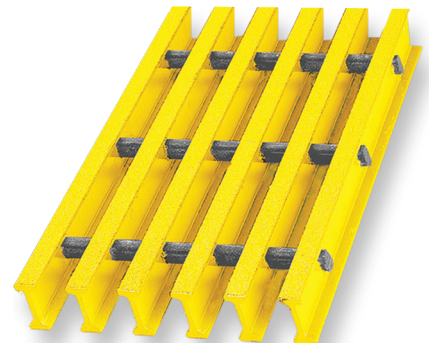
PERF-O GRIP® GRATING



BAR GRATING



MOLDED FIBERGLASS



DURADEK® FIBERGLASS



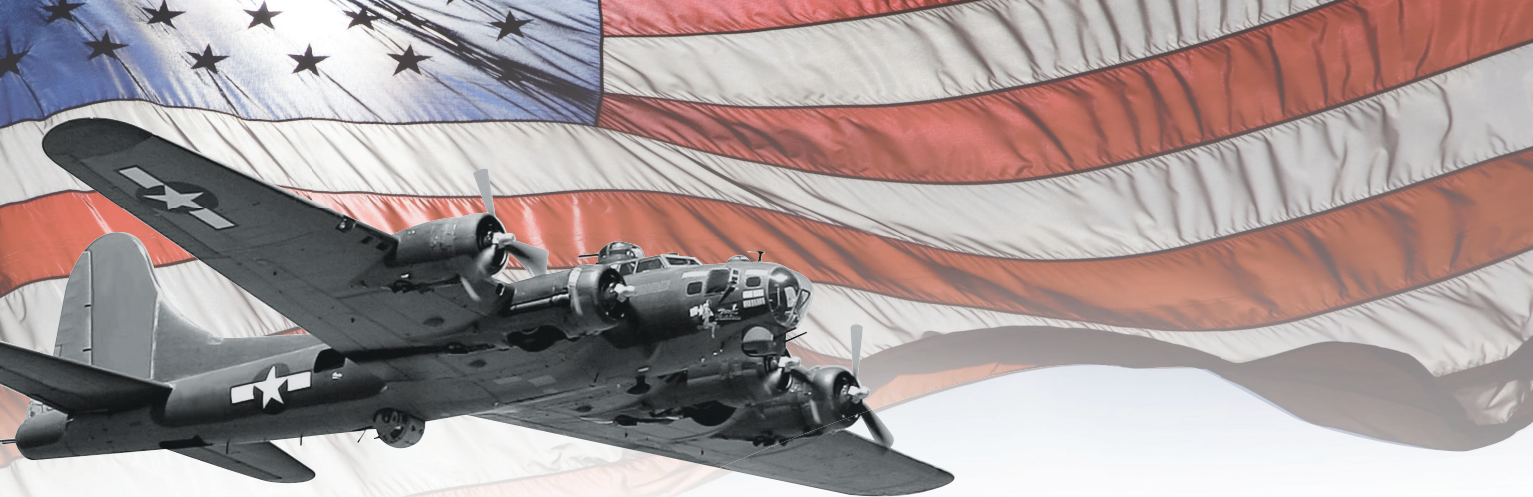
McNICHOLS CO.

800.237.3820

800.237.9212 (español)

mcnichols.com





The sole survivor of a Boeing B-17 Flying Fortress shot down over Germany 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 German 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 9001:2008 certification) and dedication to performance.

McNICHOLS has grown from a small family business to a national corporation with 18 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** celebrates its 65th anniversary, the third generation of the McNichols family—as well as members of The Hole Team—act as stewards of Bob's legacy.

Service, **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 millions of customers each year. Being in business for 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 provide 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!®

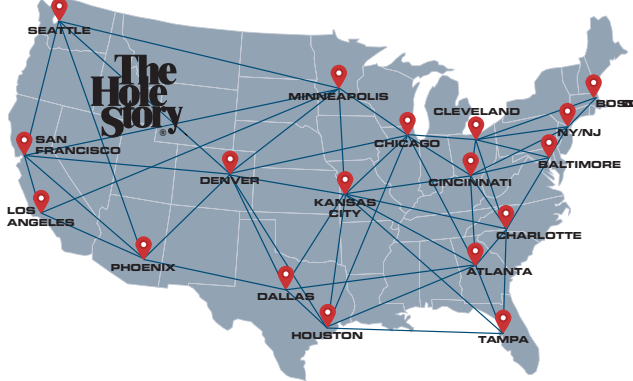
Scott M. McNichols
President

To God Be The Glory!

YOUR HOLE NETWORK

Celebrating 65 years in business, **McNICHOLS CO.** is the worldwide leader in supplying "Hole Products," including **McNICHOLS®** Perforated and Expanded Metals, Wire Mesh and Designer Metals, as well as a complete line of Metal and Fiberglass Grating and Flooring products. Our Metals Service Centers are strategically located in 18 cities across the country, but are all part of one "Hole Network." Metal processing equipment at each location—as well as industry partnerships—give us the fabrication capabilities to meet your project needs. Customers choose **McNICHOLS** because of our knowledgeable associates, vast product inventory and superior customer service. Please allow us to serve you on your next project!

Inspired to Serve!®



HEADQUARTERS

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

ATLANTA

1980 Shiloh Road NW
Bldg. 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

NEW LOCATION!

2200 Arthur Avenue
Elk Grove Village, IL 60007

CINCINNATI

3470 E. Kemper Road
Cincinnati, OH 45241

CLEVELAND

4889 NEO Parkway
Cleveland, OH 44128

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

SAN FRANCISCO

174 Lawrence Drive, Ste. G
Livermore, CA 94551

SEATTLE

1221-A 29th Street NW
Auburn, WA 98001

TAMPA

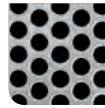
9401 Corporate Lake Drive
Tampa, FL 33634

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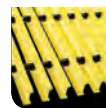
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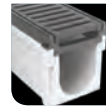
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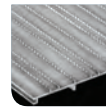
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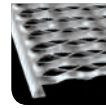
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Application photos reflected are typical of our types of products in use that can be supplied or have been supplied by **McNICHOLS CO.** Some photos may depict uses designed, manufactured, fabricated or installed by others.

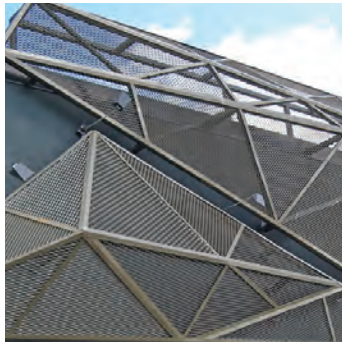


McNICHOLS® HOLE PRODUCTS ARE USED ACROSS MANY INDUSTRIES INCLUDING:

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



PERFORATED METAL
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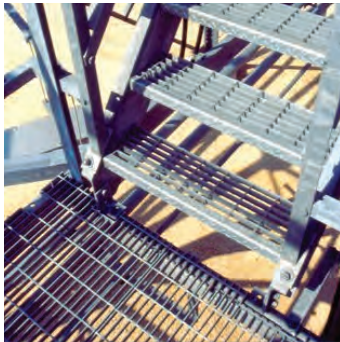
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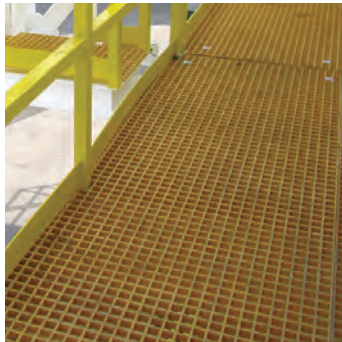
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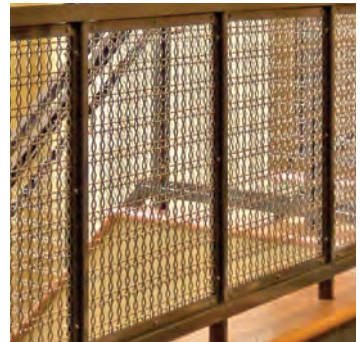
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McNICHOLS® FABRICATION SERVICES

Print Takeoffs ■ Cut-to-Size ■ Notching ■ Edging ■ Welding ■ Infill Panels ■ Stair Treads ■ Metal Finishes

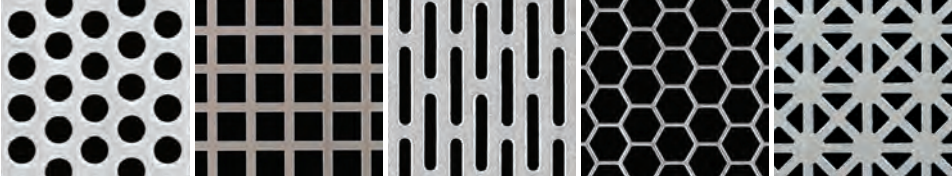
For 65 years, customers have made the repetitive choice to trust **McNICHOLS** with their Hole Product needs. Many customers also look to us for metal processing and fabrication services. We would be honored to show you how we can expand our services to meet your application requirements. From welding and cut-to-size to notching and stair treads, we are ready to fabricate Hole Products to your specifications.



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

OPTIONS					
	ROUND	SQUARE	SLOTTED	HEXAGONAL	DESIGNER
MATERIAL	Plain Steel, Pre-Galvanized, Aluminum, Stainless Steel, PLASTIPERF™, PERF-PANL™, FLEX ANGLE®	Plain Steel, Aluminum, Stainless Steel	Plain Steel, Aluminum	Plain Steel, Aluminum	Plain Steel, Aluminum
GAUGE	.020 to 3/8	.032 to 11	.032 to 16	.032 to 16	.032 to 11
HOLE SIZE	.027" to 1"	.020" to .750"	W .125" to .200" L .637" to 1"	.025" to .500"	Varies with Pattern
HOLE CENTER	.0500" to 1.25"	.500" to 1"	Varies with Pattern	.281" to .562"	Varies with Pattern
OPEN AREA (O/A)	5% to 63%	11% to 56%	41% to 74%	79% to 80%	35% to 68%
STANDARD SHEET SIZE	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

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

FINISH – Inventory is typically mill finish unless otherwise specified.

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

HOLE CONFIGURATION – Hole size, shape 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.

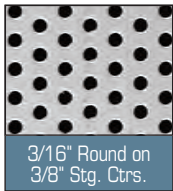
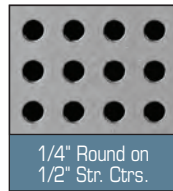
QUANTITY/SIZE(S) – Number of sheets and/or sizes (including cut-to-size pieces)

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

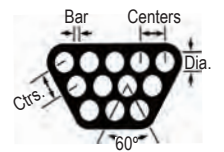
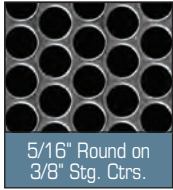
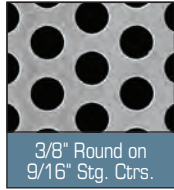
ACCESSORIES – U-Edging, Angle or Flat Bar framing solutions

ROUND HOLE PERFORATED METAL

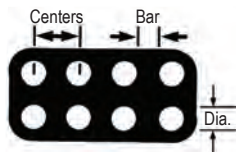
McNICHOLS® Round Hole Perforated Metal is an extremely versatile product offered in various diameters, gauges, materials and sheet size options.

1/16" Round on
3/32" Stg. Ctrs.3/16" Round on
3/8" Stg. Ctrs.3/16" Round on
1/4" Stg. Ctrs.1/4" Round on
3/8" Stg. Ctrs.1/4" Round on
1/2" Stg. Ctrs.1/4" Round on
1/2" Str. Ctrs.

Staggered Row Pattern

1/4" Round on
5/16" Stg. Ctrs.5/16" Round on
3/8" Stg. Ctrs.3/8" Round on
9/16" Stg. Ctrs.1/2" Round on
11/16" Stg. Ctrs.3/4" Round on
1" Stg. Ctrs.1" Round on
1-1/4" Stg. Ctrs.

Straight Row Pattern



ROUND HOLE STOCK LIST

HOLE DIAMETER	HOLE CENTER	GAUGE*	% O/A
PLAIN STEEL			
.027" RD	.050" Str.	26	23%
.045" RD	.066" Str.	24	36%
.045" RD	.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%
3/32" RD	3/16" Stg.	14	23%
.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.	20, 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%

ALUMINUM TYPE 3003-H14 (CONT.)			
.033" RD	.050" Str.	.032	34%
1/16" RD	3/32" Stg.	.032, .063	41%
1/16" RD	7/64" Stg.	.063	30%

ALUMINUM TYPE 3003-H14 (CONT.)			
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%
.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 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%

STAINLESS STEEL TYPE 304 (CONT.)			
.033" RD	.055" Str.	26	28%
.045" RD	.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%
3/16" RD	5/16" Stg.	16, 11	33%

STAINLESS STEEL TYPE 304 (CONT.)			
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%

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%

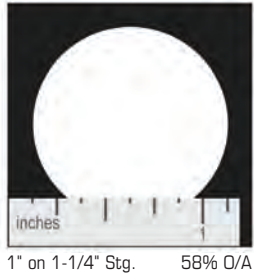
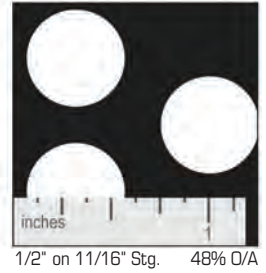
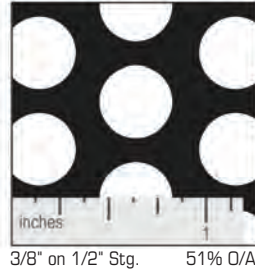
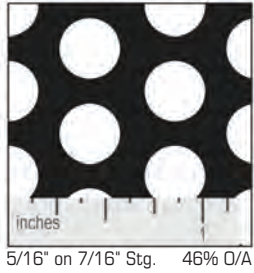
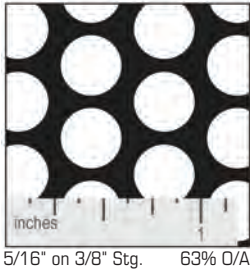
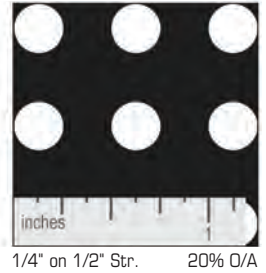
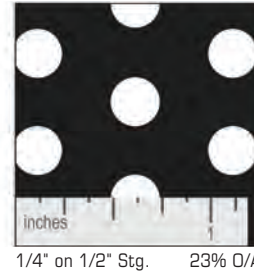
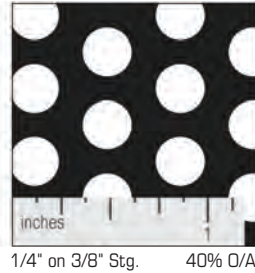
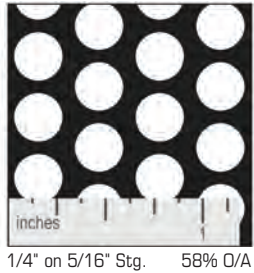
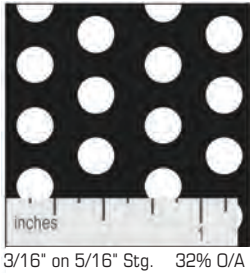
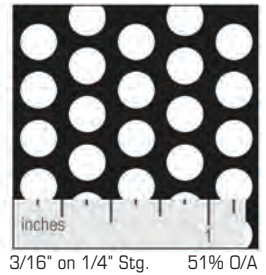
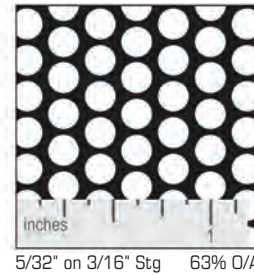
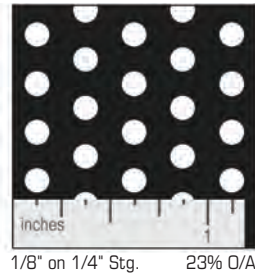
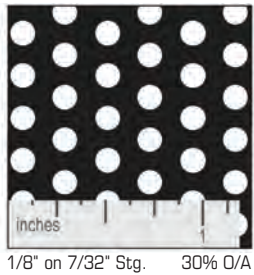
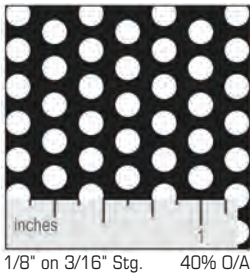
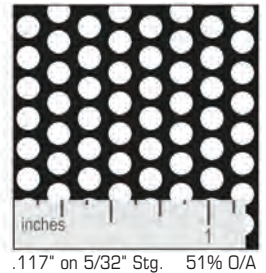
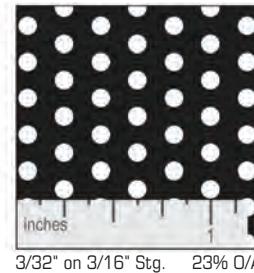
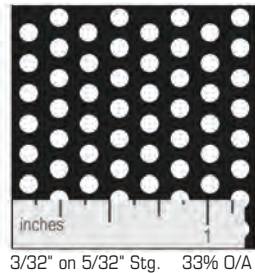
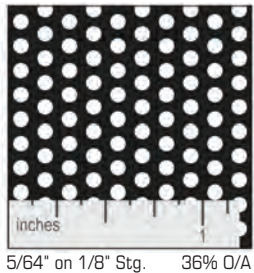
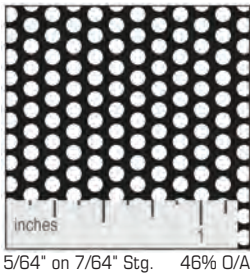
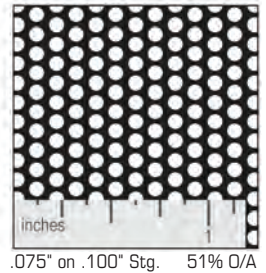
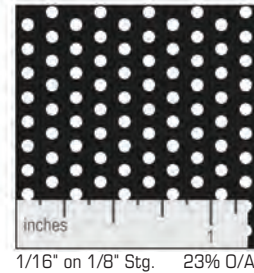
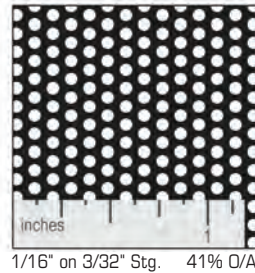
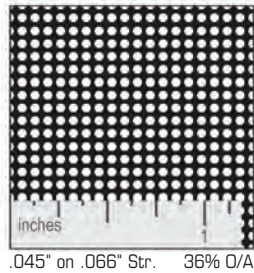
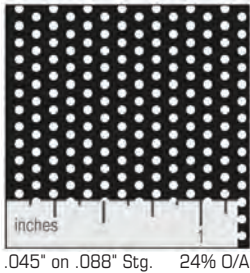
PRE-GALVANIZED G90			
1/16" RD	3/32" Stg.	22	41%
3/32" RD	3/16" Stg.	22, 20	23%
1/8" RD	3/16" Stg.	24, 20, 18, 16	40%
5/32" RD	3/16" Stg.	22	63%
3/16" RD	1/4" Stg.	18, 16	51%
1/4" RD	5/16" Stg.	20	58%
1/2" RD	11/16" Stg.	18	48%

OTHER			
.033" RD	.056" Str.	.020 Brass/Alloy	28%
1/8" PlastiPerf™	3/16" Stg.	.032, .063	41%
3/16" PlastiPerf™	5/16" Stg.	.125 Polypropylene	32%
1/4" Perf-Pan™	1" Str.	20 Stainless Steel Type 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. Longer 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.

PERFORATED ROUND HOLE DIAMETERS TO SCALE



MINIMUM HOLE SIZE/MINIMUM BAR WIDTH GUIDELINES

The rule of thumb for perforating is that the hole diameter should not be less than the 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.

PLASTIPERF™

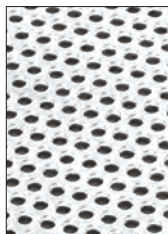
McNICHOLS PLASTIPERF™ is made from polypropylene plastic that excels in damp or corrosive environments and is non-magnetic, anti-static and lightweight.

APPLICATIONS

Signs • Filters • Baskets • Strainers
Sizing Screens • Insulation Parts

INDUSTRIES

Plating • Fish Hatcheries • Food • Electronics



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



3/16" Round on
5/16" Stg. Ctrs.

PERF-PANL™

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

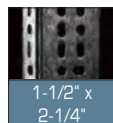
HOLE DIAMETER	HOLE CENTER	GAUGE	% O/A
1/8" Round	3/16" Stg.	.063"	40%
3/16" Round	5/16" Stg.	.125"	32%

PERF-PANL™ STOCK LIST

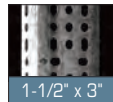
ROUND	CENTERS	GAUGE	%O/A	STANDARD SHEET SIZE	MATERIAL
1/4"	1" Str.	20	5%	48" x 96"	Plain Steel
1/4"	1" Str.	20	5%	48" x 120"	Plain Steel
1/4"	1" Str.	20	5%	48" x 96"	Stainless Steel



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 .001"

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"



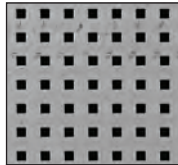
FLEX ANGLE®
Punch Strap
Accessory
1-3/8" x 120"
Galvanized

TABLE OF GAUGES & WEIGHTS

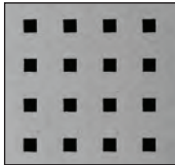
GAUGE	STEEL		GALVANIZED STEEL		STAINLESS USS GAUGE			MONEL		BRASS		COPPER		ALUMINUM		ZINC		TIN	
	USS Gauge Rev.		USS Gauge			lbs. per Sq. Ft.		USS Gauge		B&S Gauge		BW Gauge		B&S Gauge		Zinc Gauge		Tin Plate Gauge	
	Decimal Thick	lbs. per Sq. Ft.	Decimal Thick	lbs. per Sq. Ft.	Decimal Thick	Chrome Alloy	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	.0100	.408	.0134	.560	.009	.371	.378	.....	.....	.0080	.353	.0080	.371	.008	.113	.....	.....	.0061	.2526
31	.0110	.449	.0142	.594	.010	.412	.420	.010	.459	.0089	.392	.0100	.464	.009	.127	.....	.....	.0066	.2755
30	.0120	.490	.0157	.656	.012	.495	.504	.012	.551	.0100	.441	.0108	.500	.010	.141	.....	.....	.0072	.2985
29	.0135	.563	.0172	.719	.013	.536	.546	.014	.650	.0113	.498	.0126	.584	.011	.155	.....	.....	.0077	.3214
28	.0149	.625	.0187	.781	.015	.599	.610	.015	.689	.0126	.555	.0135	.625	.012	.170	.....	.....	.0083	.3444
27	.0164	.688	.0202	.844	.016	.660	.672	.....	.....	.0142	.626	.0159	.737	.014	.197	.500	18.60	.0088	.3673
26	.0179	.750	.0217	.906	.0178	.736	.750	.018	.827	.0159	.700	.0162	.750	.016	.225	.375	14.00	.0094	.3903
25	.0209	.875	.0247	1.031	.021	.866	.882	.021	.965	.0179	.789	.0189	.875	.018	.254	.250	9.30	.0099	.4133
24	.0239	1.000	.0276	1.156	.0235	.972	.990	.025	1.148	.0201	.886	.0201	.932	.020	.282	.125	4.70	.0105	.4362
23	.0269	1.125	.0306	1.281	.026	1.072	1.092	.028	1.286	.0226	.996	.0216	1.000	.022	.310	.100	3.75	.0110	.4592
22	.0299	1.250	.0336	1.406	.0291	1.197	1.220	.031	1.424	.0254	1.115	.0226	1.050	.025	.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	.395	.080	3.00	.0123	.5143
20	.0359	1.500	.0396	1.656	.0355	1.462	1.490	.037	1.700	.0320	1.410	.0253	1.170	.032	.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	.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	.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	.635	.050	1.87	.0153	.6383
16	.0598	2.500	.0635	2.656	.0595	2.454	2.500	.062	2.848	.0508	2.238	.0323	1.500	.050	.706	.045	1.68	.0163	.6795
15	.0673	2.812	.0710	2.969	.067	2.762	2.814	.070	3.216	.0571	2.516	.0350	1.625	.056	.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	.889	.036	1.35	.0185	.7714
13	.0897	3.750	.0934	3.906	.090	3.710	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	.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	.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	.67	.0229	.9551
8	.1644	6.875	.1681	7.031	.165	6.801	6.930	.172	7.855	.1285	5.662	.0539	2.500	.125	1.760	.016	.60	.0231	.9643
7	.1793	7.500	.....	.....	.1874	7.708	7.854	.187	8.590	.1443	6.358	.0641	2.970	.140	1.980	.014	.52	.0237	.9872
3/16"	.1875	7.660	.....	.....	.....	.....	8.579	.....	.....	.....	.....	.....	.....	.....	.190	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

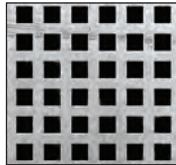
McNICHOLS® Square Hole Perforated Metal is an attractive alternative to Round Holes in many applications.



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



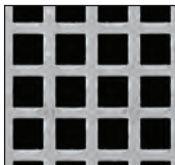
1/4" Square on
3/4" Str. Ctrs.



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



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



1/2" Square on
11/16" Str. Ctrs.



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

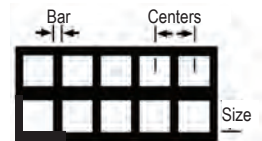
SQUARE HOLE STOCK LIST

HOLE SIZE	HOLE CENTER	GAUGE	% O/A	STANDARD SHEET SIZE
PLAIN STEEL				
.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	11/16" Str.	16, 12	53%	48" x 120"
3/4" SQ	1" Str.	16, 11	56%	48" x 120"
ALUMINUM TYPE 5052-H32				
1/4" SQ	3/4" Str.	.032	11%	48" x 120"
ALUMINUM 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	11/16" Str.	.050, .063	53%	48" x 96" 48" x 120"



McNICHOLS® Perforated
Metal, Square Hole - Lighting

Straight Row Pattern



SLOTTED HOLE PERFORATED METAL

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



1/8" x 3/4" Stg.



1/8" x 1" Stg.



AIRLINE

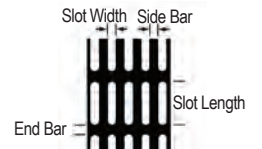
Product
samples are
available at

800.237.3820

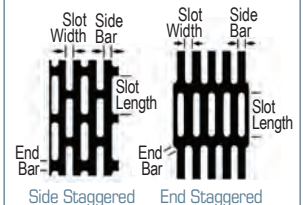
SLOTTED HOLE STOCK LIST

SLOT SHAPE	SLOT SIZE	PATTERN	GAUGE	% O/A	STANDARD SHEET SIZE
PLAIN STEEL					
Square End	.200" x .637"	Straight Row	22	74%	36" x 120"
Round Moire	.125" x .75"	Side Staggered	22	41%	36" x 96"
Round End	.125" x 1"	Side Staggered	16	43%	36" x 120"
Airline	1.5" x .25"	Straight Row	18, 16	68%	36" x 120", 36" x 96"
ALUMINUM TYPE 3003 - H14					
Airline	1.5" x .25"	Straight Row	.040, .063	68%	36" x 96", 48" x 96" 48" x 120"

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.

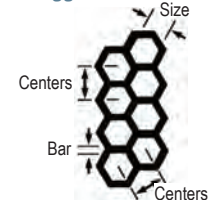


1/4" Hexagonal on
9/32" Stg. Ctrs.

HEXAGONAL STOCK LIST

HOLE SIZE	PATTERN	GAUGE	% O/A	STANDARD SHEET SIZE
PLAIN 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"
ALUMINUM TYPE 3003-H14				
1/4" Hexagonal	9/32" Stg.	.032	79%	36" x 120", 48" x 120"

Staggered Row Pattern



PERFORATED METAL FRAMING SOLUTIONS



U-EDGING



ANGLE



FLAT BAR

McNICHOLS has several framing options to choose from including U-Edging, Angle and Flat Bar. U-Edging is a U-shaped strip that is attached to the edge of the Perforated Metal sheet by a press-fit or weld. It covers the sharp edges and provides an attractive appearance. U-Edging is available in 10- or 12-foot pieces.

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.

U-EDGING STOCK LIST

TYPE	MATERIAL	GAUGE	OPEN	SIZE
401	Steel Aluminum	14, 11	1/4"	1" x 120", 1.5" x 120" .75" x 144", 1" x 144"
402	Steel Aluminum	14, 11	1/8"	1" x 120", 1" x 144"
403	Steel Aluminum	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"

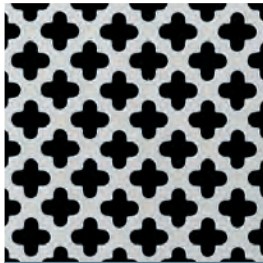
Angle may be used to frame Perforated Metal when the product is welded to one flange of the Angle.



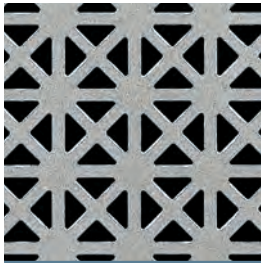
ANGLE

DESIGNER PERFORATED METAL

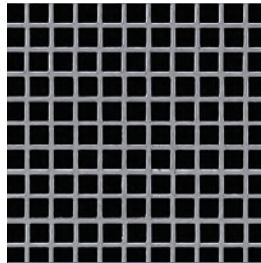
Architects, contractors and designers choose **McNICHOLS®** Designer Perforated Metals for their versatility and elegance. Designer patterns offer a high-end, artistic look, with similar functionality as other Perforated Metal styles.



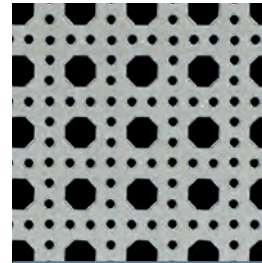
FULL CLOVERLEAF



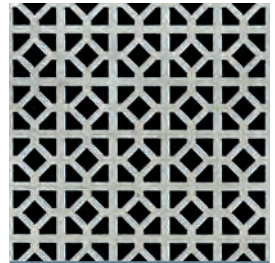
GRECIAN



HANOVER SQUARE



OCTAGON CANE



WINDSOR



McNICHOLS® Designer Perforated Metal, WINDSOR - Cabinet Inserts

DESIGNER PERFORATED STOCK LIST

PATTERN	DESCRIPTION	GAUGE	% O/A	STANDARD SHEET SIZE
PLAIN 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"
ALUMINUM TYPE 3003-H14				
WINDSOR	Triangular and Diamond Holes	.040	45%	36" x 96"

DESIGNER PERFORATED METAL GRILLES

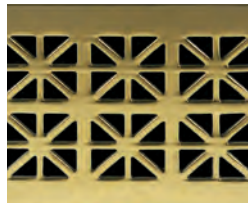
McNICHOLS® Designer Perforated Metal Grilles are available in Aluminum, Brass, Bronze, Stainless Steel and Plain Steel. Finishes offered include Satin, Mirror Polish, Statuary Antique Bronze and Primed, as well as baked enamel and powder coating colors. Add beautiful, jewelry-like elements to your surroundings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



MAJESTIC



GOTHIC



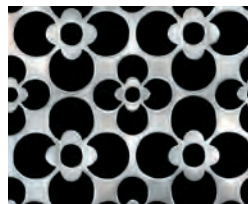
GRECIAN



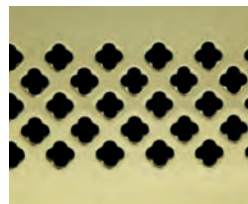
CATHEDRAL



CLASSIC



CLOVER DREAM



CLOVERLEAF



DIAMOND



EGYPTIAN



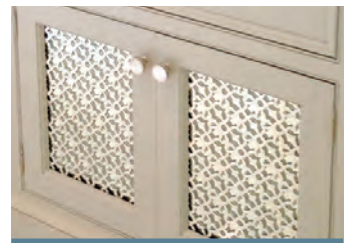
HALF SHELL



MOSAIC



SHELL



McNICHOLS® Designer Perforated Grille, MAJESTIC, Stainless Steel, Mirror Polish, 1" Pattern, 40% Open Area - Cabinet Inserts. (1" and 1.75" in Stock)



McNICHOLS® Designer Perforated Grille, DIAMOND, Aluminum, Satin, 1/4" with 1/4" Bar, 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

OPTIONS					
	FLATTENED	STANDARD	DESIGNER	GRATING	CATWALK
MATERIAL	Plain Steel, Hot Dipped Galvanized Steel, Aluminum, Stainless Steel	Plain Steel, Hot Dipped Galvanized Steel, Aluminum, Stainless Steel	Plain Steel, Aluminum	Plain Steel, Hot Dipped Galvanized Steel, Aluminum, Stainless Steel	Plain Steel
GAUGE	Steel: 20 to 9 Aluminum: .050 to .125	Steel: 20 to 6 Aluminum: .032 to .125	Steel: 18 Aluminum: .051	.540" to .730" (Overall Thickness)	.460" to .655" (Overall Thickness)
STYLE	3/16" to 1-1/2"	3/16" to 2"	1/16" to 3/16"	3# to 6.25#	3.14#, 4.27#
WEIGHT PER SQUARE FOOT	.16# to 1.95#	16# to 2.5#	Plain Steel: .54# to .76# Aluminum: .26# to .52#	Plain Steel: 2# to 7# Aluminum: 2# Stainless: 4.5#	4.27#
% OPEN AREA (O/A)	35% to 83%	43% to 90%	38% to 66%	45% to 77%	58%
STANDARD SHEET SIZE	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"	96" x 48"	48" x 96" 48" x 120" 72" x 120"	120" x 24" 120" x 36" (Others Available)

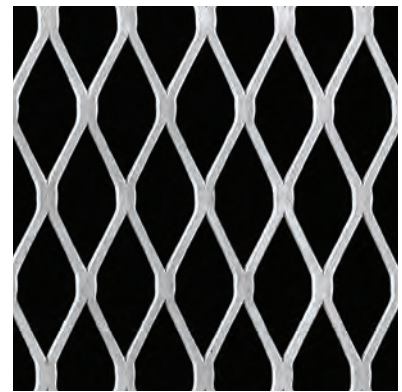
WE ARE READY AND INSPIRED TO SERVE® YOU AT 800.237.3820!



McNICHOLS® Expanded Metal, Flattened - Ceiling Tiles, BurgerFi Restaurants, Nationwide



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



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

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

FINISH – Inventory is typically mill finish unless otherwise specified.

STYLE – Long Way of Opening (LWO) measurement in inches, material thickness in inches or gauge numbers and Expanded type (i.e. 3/4 #9 Flattened, 1/2 #051 Standard, 3.14# Grating, etc.)

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

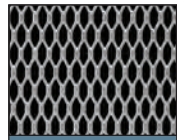
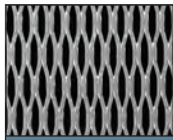
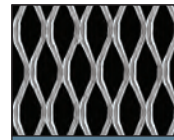
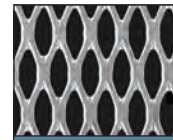
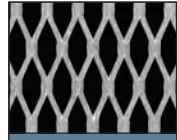
QUANTITY/SIZE(S) – Number of sheets and/or sizes (including cut-to-size pieces and shearing preference such as Bond or Random)

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

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

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

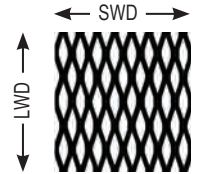
FLATTENED EXPANDED STOCK LIST

STYLE	#/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		
PLAIN 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"
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"
ALUMINUM 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"	.060"	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"
HOT DIPPED GALVANIZED												
1/2 #16 F	.98#	.500"	1.250"	.312"	1.000"	.050"	.096"	.050"	24	9.5	63%	48" x 96", 48" x 120"
1/2 #13 F	1.61#	.500"	1.250"	.265"	1.000"	.078"	.107"	.078"	24	9.5	52%	48" x 96"
3/4 #16 F	.56#	.923"	2.100"	.750"	1.750"	.048"	.111"	.048"	13	5.7	74%	48" x 96", 60" x 120"
3/4 #13 F	.77#	.932"	2.100"	.628"	1.710"	.078"	.106"	.070"	13	5.7	74%	48" x 96"
3/4 #9 F	1.88#	.923"	2.100"	.563"	1.688"	.120"	.165"	.120"	13	5.7	63%	48" x 96", 48" x 120"

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.

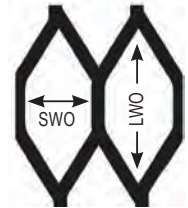
Expanded Dimensions

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



It is important when ordering to provide the proper SWD (Short Way of Design) and LWD (Long Way of Design) dimensions. 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



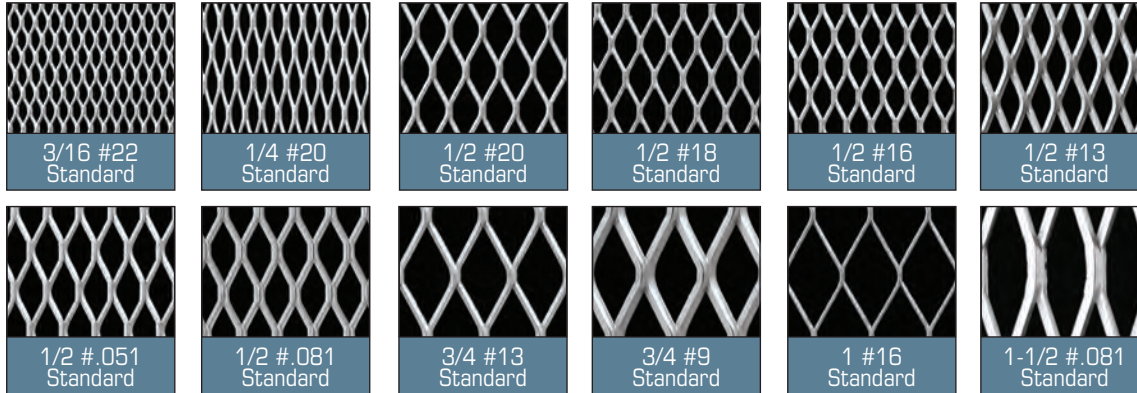
Bond Sheared SWD
Random Sheared LWD



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 your application!



PLEASE NOTE: Pictures above are not to scale.

STANDARD EXPANDED STOCK LIST

STYLE	#/SQ. FT.	DESIGN SIZE		OPENING SIZE		STRAND SIZE		OVERALL THICKNESS	MESHER PER FOOT		% O/A	STD. SHEET SIZE
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH		SWD	LWD		
PLAIN 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"
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"
ALUMINUM 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"
HOT DIPPED GALVANIZED												
3/4 #9 S	1.900#	.923"	2.000"	.688"	1.562"	.150"	.134"	.312"	--	--	68%	72" x 96"
1-1/2 #10 S	.900#	1.330"	3.000"	1.188"	2.500"	.093"	.134"	.284"	--	--	80%	72" 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

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" 1.5" x 120" .75" 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"

ANGLE

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

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

FLAT BAR

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

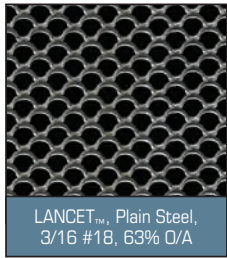
CLIPS



Pre-galvanized clips used to attach Expanded Metal to drywall applications where required. Hardware not included.

DESIGNER EXPANDED METAL

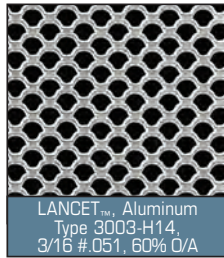
McNICHOLS® Designer Expanded Metal may be used for security partitions, sign panels, sunshades, room panels, cabinet inserts and more. While enhancing appearance, the patterns can provide security and control light, heat and airflow.



LANCET™, Plain Steel,
3/16 #18, 63% O/A



LANCET™, Plain Steel,
1/16 #18, 44% O/A



LANCET™, Aluminum
Type 3003-H14,
3/16 #.051, 60% O/A

DESIGNER EXPANDED STOCK LIST

STYLE	MATERIAL	GAUGE	STANDARD SHEET SIZE	% O/A
LANCET™ 3/16 #18	Plain Steel	18	96" x 48"	63%
LANCET™ 1/16 #18	Plain Steel	18	96" x 48"	44%
LANCET™ 3/16 #.051	Aluminum	.051"	96" x 48"	60%

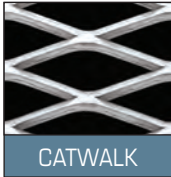


McNICHOLS® Designer Expanded Metal - Door Infill Panel

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 diamond runs across a shorter span.

EXPANDED GRATING & CATWALK STOCK LIST

OPTION	STYLE	#/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		
PLAIN STEEL													
GTG	3.00#	3.00#	1.33"	5.33"	.940"	3.44"	.183"	.264"	.540"	9	2.25	60%	48" x 96"
GTG	3.14#	3.14#	2.00"	6.00"	1.625"	4.88"	.250"	.312"	.656"	6	2	69%	48" x 96", 48" x 120", 72" x 120"
GTG	4.00#	4.00#	1.33"	5.33"	.940"	3.44"	.215"	.300"	.618"	9	2.25	55%	48" x 96", 48" x 120"
CAT	4.27#	4.27#	1.41"	4.00"	1.000"	2.88"	.250"	.300"	.625"	8.5	3	58%	120" x 36"
GTG	4.27#	4.27#	1.41"	4.00"	1.000"	2.88"	.250"	.300"	.625"	8.5	3	58%	48" x 96", 48" x 120"
GTG	5.00#	5.00#	1.33"	5.33"	.813"	3.38"	.250"	.331"	.655"	9	2.25	50%	48" x 96"
GTG	6.25#	6.25#	1.41"	5.33"	.813"	3.38"	.312"	.350"	.715"	8.5	2.25	50%	48" x 96"
STAINLESS STEEL TYPE 304													
GTG	4.50#	4.50#	1.41"	4.00"	1.00"	2.88"	.250"	.300"	.625"	8.5	3	58%	48" x 120"
ALUMINUM TYPE 5052-H32													
GTG	2.00#	2.00#	1.33"	5.33"	.940"	3.44"	.250"	.387"	.730"	9	2.25	48%	48" x 96"

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, The North Face Retail Store, Indianapolis, IN

LOAD TABLE: EXPANDED STEEL GRATING & CATWALK

LBS. PER LINEAR FT.	CLEAR SPAN							
	23"	30"	35"	42"	47"	54"	60"	
50	3.0	3.0	3.0	3.0	3.0	4.0	5.0	
	3.14	3.14	3.14	3.14	3.14	4.27	6.25	
100	3.0	3.0	3.0	4.0	5.0			
	3.14	3.14	3.14	4.27	6.25			
150	3.0	4.0	4.0	5.0	6.25			
	3.14	4.27	4.27	6.25				
200	3.0	4.0	4.27	6.25				
	3.14	4.27	5.0					
250	4.0	5.0	5.0					
	4.27	---	6.25					
300	4.0	5.0	6.25					
	4.27	6.25						
350	4.0	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

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

U - Uniform Load - pounds/sq. ft.

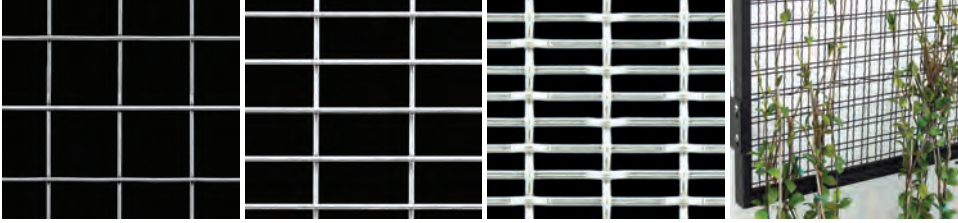
C - Concentrated Load - pounds/ft. width at mid span

D - Deflection in inches

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

OPTIONS				
	SQUARE	RECTANGULAR	DESIGNER	ECO-MESH®
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
MATERIAL	Plain, Galvanized and Stainless Steel, Aluminum, Brass, Copper, Galvanized- PVC Coated	Plain, Galvanized and Stainless Steel, Aluminum	Plain Steel, Stainless Steel, Aluminum, Copper, Bronze	Galvannealed, Plain and Stainless Steel, Aluminum, Powder Coated
WIRE DIAMETER	.0045" to .375"	.063" to .120" .009", .011" (Insect Screen)	.035" to .192"	.135" (.120, .148 by Special Order)
OPENING / MESH SIZE	Opening: .250" 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"	.838" to 3.89"	2" x 2" Mesh (Stock), (Special Order Available)
STANDARD SIZE	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)

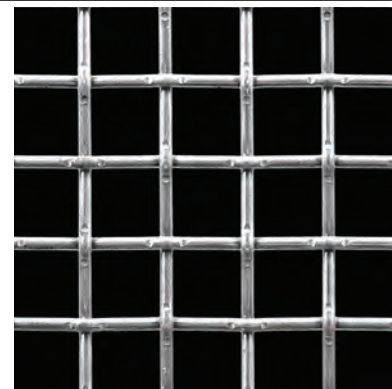
WE ARE READY AND INSPIRED TO SERVE® YOU AT 800.237.3820!



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



McNICHOLS® Designer Wire Mesh, AURA™ 8155 -
Building Facade/Signage



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

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

FINISH – Inventory is typically mill finish unless otherwise specified.

OPENING – Type of opening (Square or Rectangular) or Designer pattern

CONSTRUCTION – Woven with type of weave (i.e. Plain, Lockcrimp, Interlock), Welded (Trimmed or Untrimmed) or Designer Mesh pattern number (e.g. TECHNAs 3155)

MESH SIZE – 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 – U-Edging, Angle or Flat Bar 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 pattern. The most common weave types are listed and described on the right-hand side of this page. It is available in a wide range of weaves and opening sizes.



1/4" Square Opg.
Woven



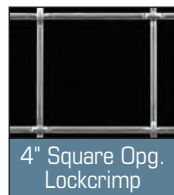
5/8" Square Opg.
Lockcrimp



1" Square Opg.
Intercrimp

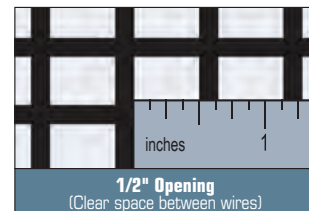


2" Square Opg.
Lockcrimp



4" Square Opg.
Lockcrimp

How To Measure Square Opening



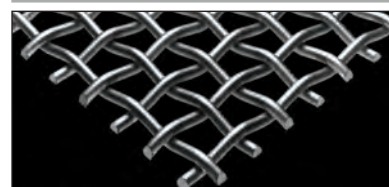
The opening is measured from the inside edge of one wire to the inside edge of the adjacent wire.

SQUARE OPENING - WOVEN STOCK LIST

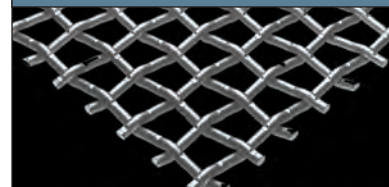
OPENING	GAUGE
GALVANIZED STEEL	
4" Opening	.250
2" Opening	.250
1" Opening	.120
PLAIN STEEL	
4" Opening	.250
3" Opening	.250
2" Opening	.120, .135, .162, .192, .250, .375
1-3/4" Opening	.250
1-1/2" Opening	.120, .135, .192, .250
1" Opening	.120, .135, .192, .250
3/4" Opening	.120, .250
5/8" Opening	.120
1/2" Opening	.120, .250

OPENING	GAUGE
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
ALUMINUM	
4" Opening	.250
2" Opening	.250
1-1/2" Opening	.120, .250
1" Opening	.120

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	GAUGE
PLAIN 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

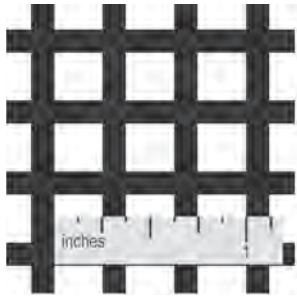
PLEASE NOTE: Pictures above are not to scale. For actual scale diagrams, please see page 15.



McNICHOLS® Wire Mesh, Welded, 2" Square Opening - Infill Panels

SQUARE OPENING SIZES TO SCALE

1/4" SQUARE OPENING



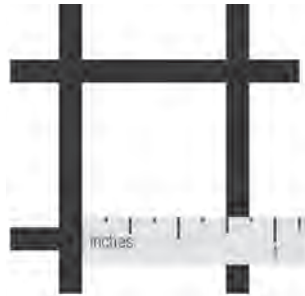
1/4" Square Opening, .120" Wire Diameter, 40% O/A

1/2" SQUARE OPENING



1/2" Square Opening, .063" Wire Diameter, 79% O/A

3/4" SQUARE OPENING

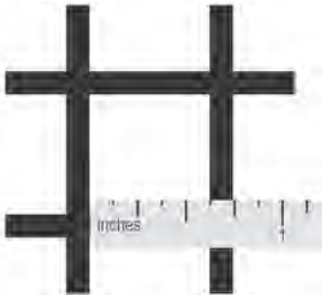


3/4" Square Opening, .120" Wire Diameter, 74% O/A

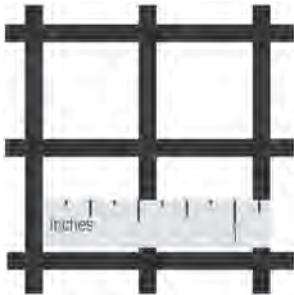
1" SQUARE OPENING



1" Square Opening, .120" Wire Diameter, 77% O/A



5/8" Square Opening, .120" Wire Diameter, 70% O/A



1/2" Square Opening, .092" Wire Diameter, 71% O/A



3/4" Square Opening, .025" Wire Diameter, 56% O/A

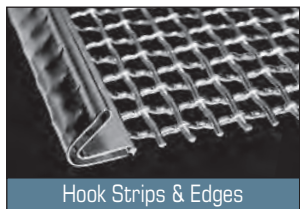


1" Square Opening, .135" Wire Diameter, 78% O/A



McNICHOLS® Wire Mesh, Welded, 2" Square Opening - Infill Panels

HOOK STRIPS & EDGES



Hook Strips & Edges

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

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/EDGE TYPE	WIRE OPTIONS
M-1, M-4, M-6	.312" dia. and heavier
M-2, M-5	.063" to .250" dia.
M-3 or M-3C	.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.

SQUARE OPENING OPTIONS CHART

DIAM. % O/A #/SF			DIAM. % O/A #/SF			DIAM. % O/A #/SF			DIAM. % O/A #/SF			DIAM. % O/A #/SF			DIAM. % O/A #/SF			DIAM. % O/A #/SF			DIAM. % 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			
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	42.2	3.21			
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	.120	45.6	2.62			
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	49.6	2.07			
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	53.4	1.64			
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			
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			
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			
.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			
.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			
.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					
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			
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			
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			
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			
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			
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			
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			
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	.135	58.4	2.09	.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	.120	61.5	1.69	.072	52.2	1.33			
.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	.105	65.0	1.33	.063	56.0	1.05			
.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	.092	68.3	1.04	.054	60.3	.79			
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	.080	71.5	.80	.047	63.9	.62			
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	.072	73.7	.66	.041	67.3	.48			
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	.063	76.4	.51	5/32" SQ. OPENING					
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	.120	32.2	3.64			
1/2	76.6	4.03	.177	87.2	.75	.250	73.4	2.31	.105	83.7	.58	.162	63.1	2.18	.105	65.0	1.33	.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	.080	71.5	.80	.080	43.5	1.86			
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	.072	73.7	.66	.072	48.1	1.56			
5/16	84.3	1.65	2-1/4" SQ. OPENING			.192	78.6	1.40	.283	60.8	4.09	.120	70.3	1.25	.120	61.5	1.69	.072	48.1	1.56			
.283	85.6	1.36	1	47.9	20.61	.177	80.0	1.20	.263	62.7	3.58	.105	73.4	.98	.105	65.0	1.33	.063	51.2	1.23			
.263	86.5	1.18	3/4	56.2	12.37	.162	81.5	1.02	.250	64.0	3.26	.092	76.0	.76	.092	68.3	1.04	.054	53.3	.94			
.250	87.1	1.07	5/8	61.2	8.90	.148	82.8	.85	.225	66.6	2.69	.080	78.6	.58	.080	71.5	.80	.047	58.5	.73			
.225	88.3	.87	1/2	66.9	5.91	135	84.2	.72	.207	68.6	2.31	.072	80.4	.48	.072	73.7	.66	.041	63.2	.55			
.207	89.1	.74	7/16	70.1	4.62	120	85.7	.57	.192	70.4	2.01	.063	82.5	.37	5/8" SQ. OPENING			.177	46.1	3.82			
3-1/4" SQ. OPENING			3/8	73.4	3.46	1-3/8" SQ. OPENING			.177	72.2	1.72	.162	74.0	1.46	.162	48.7	3.27	.120	26.0	4.19			
1	58.5	15.47	5/16	77.1	2.46	3/4	41.9	17.97	.148	75.9	1.23	7/16	31.6	13.45	.148	51.4	2.79	.105	29.5	3.37			
3/4	66.0	9.16	.283	78.9	2.04	5/8	47.3	13.10	.135	77.6	1.04	3/8	36.0	10.40	.135	54.1	2.37	.092	33.4	2.71			
5/8	70.3	6.54	.263	80.2	1.77	1/2	53.8	8.83	.120	79.7	.83	5/16	41.3	7.64	.120	57.4	1.92	.080	37.2	2.15			
1/2	75.0	4.31	.250	81.0	1.61	7/16	57.5	6.95	.105	81.9	.64	.283	44.2	6.44	.105	61.0	1.51	.072	40.2	1.79			
7/16	77.6	3.35	.225	82.6	1.31	3/8	61.6	5.26	.092	83.9	.50	.263	46.4	5.67	.092	64.5	1.18	.063	44.2	1.43			
3/8	80.4	2.50	.207	83.9	1.12	5/16	66.5	3.77	.080	85.7	.38	.250	47.9	5.19	.080	67.9	.91	.054	48.7	1.09			
5/16	83.2	1.76	.192	84.9	.97	.283	68.8	3.14	.080	85.7	.38	1" SQ. OPENING			.072	70.4	.75	.047	52.8	.85			
.283	84.6	1.46	.177	85.9	.83	.263	70.5	2.74	5/8	34.0	18.06	.192	55.0	3.26	.063	73.3	.59	.041	56.7	.67			
.263	85.6	1.26	.162	87.0	.70	.250	71.5	2.49	1/2	40.5	12.38	.177	57.6	2.81	.054	76.4	.44	.035	61.0	.50			
.250	86.2	1.15	.148	88.0	.59	.225	73.9	2.04	.177	71.2	1.64	.162	61.0	2.40	.250	29.5	8.46	.092	24.5	3.10			
.225	87.5	.93	.135	89.0	.49	.207	75.6	1.75	7/16	44.4	9.84	.148	62.7	2.04	.250	30.9	7.78	.080	29.6	2.48			
.207	88.4	.79	2" SQ. OPENING			.192	77.0	1.52	.177	78.5	1.30	.135	65.0	1.72	.225	33.8	6.53	.072	32.5	2.18			
3" SQ. OPENING			1	44.4	22.49	.162	80.0	1.10	.283	57.1	4.55	.120	67.9	1.38	.207	36.2	5.68	.063	35.0	1.66			
1	56.3	16.50	3/4	52.9	13.57	.148	81.5	.92	.263	59.1	3.99	.105	71.0	1.08	.192	38.4	5.00	.054	38.8	1.35			
3/4	64.0	9.79	5/8	58.0	9.79	.135	82.9	.78	.250	60.5	3.64	.092	73.8	.85	.177	40.8	4.36	.047	45.2	1.05			
5/8	68.5	7.00	1/2	64.0	6.53	.120	84.6	.62	.225	63.3	3.01	.080	76.6	.65	.162	43.4	3.74	.041	47.6	.83			
1/2	73.5	4.62	7/16	67.3	5.11	1-1/4" SQ. OPENING			.192	67.2	2.25	.063	80.9	.41	.148	46.0	3.20	1/16" SQ. OPENING					
7/16	76.2	3.59	3/8	70.9	3.84	3/4	39.1	19.22	.177	69.2	1.93	.120	78.4	14.42	.135	48.8	2.72	.063	24.6	2.15			
3/8	79.0	2.68	5/16	74.8	2.73	5/8	44.4	14.06	.162	71.2	1.64	.105	76.0	2.40	.250	29.5	8.46	.054	29.6	1.67			
5/16	82.0	1.90	.283	76.7	2.26	1/2	51.0	9.51	.148	73.5	1.38	.092	59.6	1.37	.207	36.2	5.68	.047	33.2	1.40			
.283	83.5	1.57	.263	78.1	1.97	7/16	54.8	7.50	.135	75.1	1.17	.080	78.6	.66	.177	43.4	3.74	.041	37.0	1.11			
.263	84.5	1.36	.250	79.0	1.79	3/8	59.2	5.69	.120	79.7	.83	.283	44.2	6.44	.105	61.0	1.51	.072	40.2	1.79			
.250	85.2	1.23	.225	80.8	1.46	5/16	64.0	4.08	.105	83.7	.58	.263	46.4	5.67	.092	64.5	1.18	.063	44.2	1.43			
.225	86.5	1.01	.207	82.1	1.25	.283	66.5	3.40	.080	85.7	.38	.250	47.9	5.19	.080	67.9	.91	.054	48.7	1.09			
.207	87.5	.86	.192	83.2	1.08	.263	68.3	2.97	.092	83.9	.50	.283	47.4	5.91	.120	61.5	1.69	.072	40.2	1.79			
.192	88.3	.74	.177	84.4	.92	.250	71.5	2.49	.072	80.4	.48	.263	49.5	5.20	.105	65.0	1.33	.063	51.2	1.23			
.177	89.2	.63	.162	85.6	.78	.225	73.9	2.04	.063	82.5	.37	.250	51.0	4.76	.092	68.3	1.04	.054	53.3	.94			
.162	90.0	.53	.148	86.7	.65	.207	75.6	1.75	.054	76.4	.44	.283	47.4	5.91	.120	61.5	1.69	.072	40.2	1.79			
2-3/4" SQ. OPENING			.135	87.8	.55	.192	77.0	1.52	.047	58.5	.73	.250	51.0	4.76	.092	68.3	1.04	.054	53.3	.94			
1	53.7	17.67	.120																				

SQUARE MESH WIRE MESH

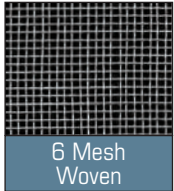
McNICHOLS® Square Mesh Wire Mesh is available in a wide range of meshes, weaves and mesh sizes. Square Mesh is often used in applications such as infill panels, fan guards, enclosures, fencing, filtration and more!

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
Woven



6 Mesh
Woven



2 Mesh
Lockcrimp

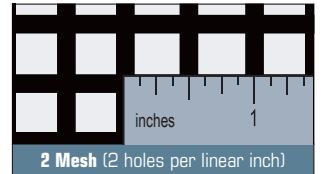


3/4" Mesh
Intercrip



1 Mesh
Intercrip

How To Measure Square Mesh



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	GAUGE	TYPE
STAINLESS STEEL (TYPE 304 & 316)		
3/4"	.063, .105	304
1	.080	Both
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

MESH	GAUGE	TYPE
STAINLESS STEEL (CONT.)		
16	.018	Both
16	.009, .028	304
18	.009, .017	304
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

MESH	GAUGE
ALUMINUM ALLOY	
1	.120
2	.063
4	.047, .063
8	.028
PLAIN 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
14	.020
16	.018
60	.0075

MESH	GAUGE
GALVANIZED STEEL	
8	.017
COPPER	
2	.063
4	.047
8	.028
10	.025
16	.011
40	.010
100	.0045
BRASS	
8	.028
16	.018

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

an "a"!

SQUARE MESH - WELDED

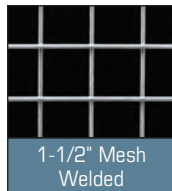
McNICHOLS® Square Mesh Welded Wire Mesh typically has larger openings than Woven Wire Mesh. Welded Wire Mesh is capable of maintaining its shape when stressed.



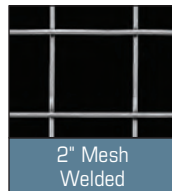
4 Mesh
Welded



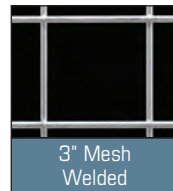
1 Mesh
Welded



1-1/2" Mesh
Welded



2" Mesh
Welded



3" Mesh
Welded

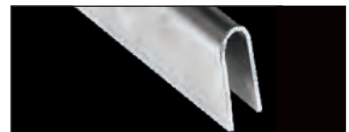
SQUARE MESH - WELDED STOCK LIST

MESH	GAUGE	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
3"	.188	304
2"	.120, .188	304

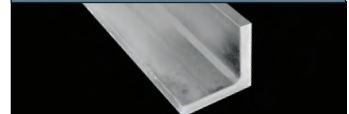
MESH	GAUGE
PLAIN STEEL	
1	.105, .120, .135
2"	.097, .135, .156, .160, .185
3"	.135, .192
4"	.225, .250
6"	.187
1-1/2"	.135

MESH	GAUGE
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

FRAMING



U-EDGING



ANGLE



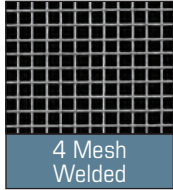
FLAT BAR

For details on Wire Mesh framing options, please refer to page 7 and 11 or we can 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, available in 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.



HARDWARE & INDUSTRIAL STOCK LIST				
MESH	GAUGE	OPENING	WIDTH	#/SF
1 Square Welded	.063	.937"	48"	.27
1 Square Welded	.080	.920"	48"	.42
2 Square Welded	.041	.459"	36", 48", 60"	.22
2 Square Welded	.063	.437"	36", 48"	.63
2 Square Welded	.080	.420"	48"	.83
4 Square Welded	.025	.255"	36", 48"	.16
4 Square Woven	.025	.225"	36"	.16
4 Square Woven	.047	.203"	48"	.57
8 Square Woven	.017	.108"	48"	.20
2" x 1" Rectangular Welded	.080	1.9" x .92"	48"	.31
1" x 1/2" Rectangular Welded	.063	.937" x .437"	60"	.40

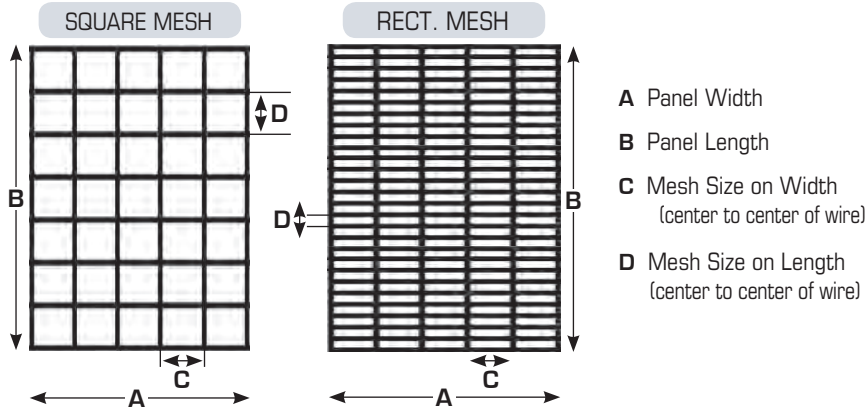
VINYLMESH™

McNICHOLS VINYLMESH™ is a welded, galvanized and then vinyl-coated Wire Mesh offered in a variety of meshes, gauges and widths. VINYLMESH™ is easy to clean, as well as weather- and corrosion-resistant. Applications include animal cages, enclosures, screens, partitions, racking and guards. VINYLMESH™ is available in full 100' rolls only (no cut-to-size option).



VINYLMESH™ STOCK LIST				
MESH	GAUGE	OPENING	WIDTH	#/SF
2" Welded	.099	1.895"	48"	.43
2" Welded	.080	1.90"	36"	.24
1 Welded	.080	.920"	36", 48", 60"	.49
1 Welded	.063	.937"	24"	.31
2 Welded	.063	.437"	48"	.65

Measuring Square & Rectangular Mesh



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



McNICHOLS® Wire Mesh, 18 Mesh - Theater Wall and Ceiling Screens

WIRE DIAMETERS & GAUGE EQUIVALENTS (TO SCALE)

DIAM	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

McNICHOLS
carries more Square
Mesh sizes than what
is shown. Our full
stock list is available
at mcnichols.com!

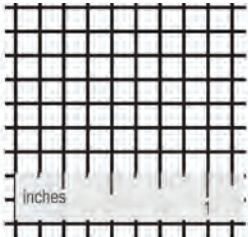
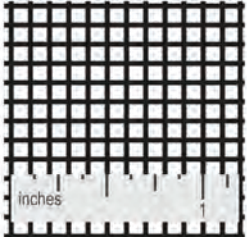
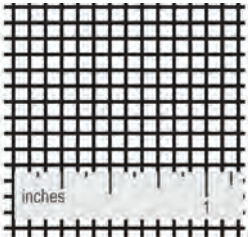
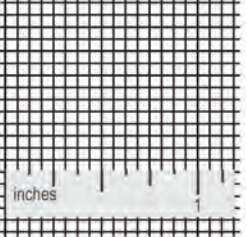
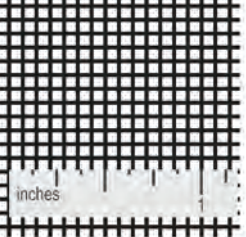
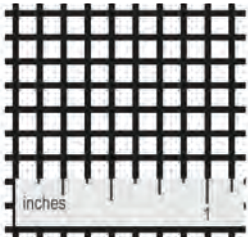
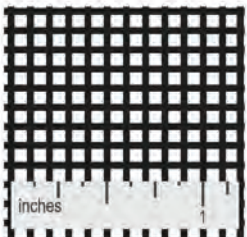
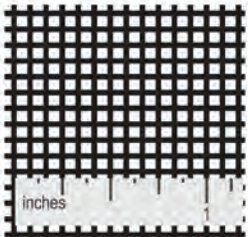
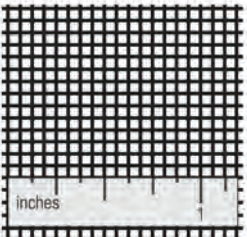
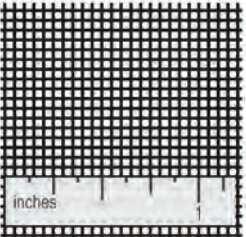
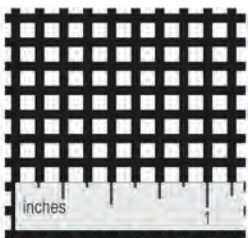
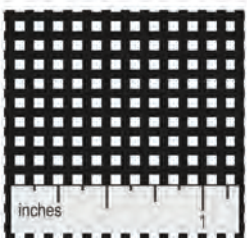
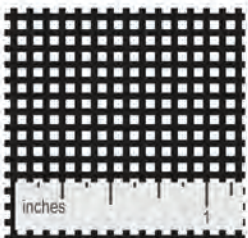
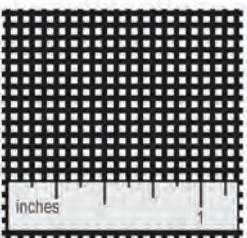
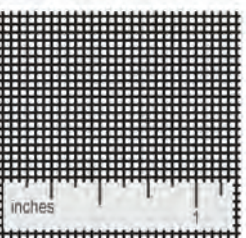
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Inspired to Serve®

SQUARE MESH SIZES TO SCALE


8 MESH	10 MESH	12 MESH	16 MESH	FINE MESH
				
8 Mesh, .0170" Wire Dia., 75% O/A	10 Mesh, .0250" Wire Dia., 56% O/A	12 Mesh, .0180" Wire Dia., 61% O/A	16 Mesh, .0090" Wire Dia., 72% O/A	14 Mesh, .0200" Wire Dia., 51% O/A
				
8 Mesh, .0320" Wire Dia., 55% O/A	10 Mesh, .0350" Wire Dia., 42% O/A	12 Mesh, .0280" Wire Dia., 44% O/A	16 Mesh, .0180" Wire Dia., 51% O/A	20 Mesh, .0160" Wire Dia., 46% O/A
				
8 Mesh, .0470" Wire Dia., 39% O/A	10 Mesh, .0470" Wire Dia., 28% O/A	12 Mesh, .0350" Wire Dia., 33% O/A	16 Mesh, .0280" Wire Dia., 31% O/A	24 Mesh, .0140" Wire Dia., 44% O/A

SQUARE MESH OPTIONS CHART

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

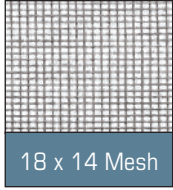
SQUARE MESH OPTIONS CHART (CONTINUED)

DIAM.	OPENING WIDTH	% O/A	#/100 SF	DIAM.	OPENING WIDTH	% O/A	#/100 SF	DIAM.	OPENING WIDTH	% O/A	#/100 SF	DIAM.	OPENING WIDTH	% O/A	#/100 SF	DIAM.	OPENING WIDTH	% O/A	#/100 SF				
4 MESH (CONTINUED)				.028	.0970	60.2	41.1	.017	.0386	48.3	34.8	.0095	.0191	44.7	21.3	.0034	.0043	31.1	11.9				
.080	.1700	46.2	172.1	.025	.1000	64.0	32.6	.016	.0396	50.8	30.7	.009	.0196	47.1	19.0	140 MESH							
.072	.1780	50.7	138.2	.023	.1020	66.6	27.5	.015	.0406	53.4	26.8	40 MESH				.0029	.0042	34.9	9.3				
.063	.1870	56.0	104.8	.020	.1050	70.6	20.7	.014	.0416	56.1	23.3	.012	.0130	27.0	40.9	150 MESH							
.054	.1960	61.5	76.4	.018	.1070	73.3	16.8	.0135	.0421	57.4	21.6	.011	.0140	31.4	33.8	.0026	.0041	37.4	8.0				
.047	.2030	65.9	57.6	.017	.1080	74.6	14.9	.013	.0426	58.8	20.0	.010	.0150	36.0	27.6	160 MESH							
.041	.2090	69.9	43.6	9 MESH				.012	.0436	61.6	17.0	.0095	.0155	38.4	24.7	.0025	.0038	36.4	7.9				
.035	.2150	74.0	31.7	.054	.0571	26.3	177.4	.011	.0446	64.4	14.2	.009	.0160	41.0	22.0	170 MESH							
.032	.2180	76.0	26.4	.047	.0641	33.2	138.2	.010	.0456	67.4	11.7	45 MESH				.0024	.0035	35.1	7.7				
.028	.2220	78.9	20.2	.041	.0701	39.7	103.2	.0095	.0460	68.9	10.5	.011	.0112	25.4	36.9	180 MESH							
.025	.2250	81.0	16.1	.035	.0761	46.8	74.0	.009	.0466	70.4	9.5	.010	.0122	30.1	31.6	.0023	.0033	34.7	7.5				
4-1/2 MESH				.032	.0791	50.6	61.4	20 MESH				.0095	.0127	32.7	28.3	200 MESH							
.105	.1172	27.7	333.7	.028	.0831	55.8	46.6	.025	.0250	25.0	85.0	.009	.0132	35.3	25.2	.0021	.0029	33.6	7.0				
.092	.1302	34.2	263.9	.025	.0861	59.9	36.9	.023	.0270	29.2	70.8	.0085	.0137	38.0	22.3	220 MESH							
.080	.1422	40.8	195.9	.023	.0881	62.7	31.1	.020	.0300	36.0	55.2	.008	.0142	40.8	19.6	.0017	.0028	38.7	5.0				
.072	.1502	45.6	157.0	.020	.0911	67.1	23.4	.018	.0320	41.0	44.1	.0075	.0147	43.8	17.1	250 MESH							
.063	.1592	51.2	118.9	10 MESH				.017	.0330	43.6	39.1	50 MESH				.0016	.0024	36.0	5.1				
.054	.1682	57.2	86.4	.047	.0530	28.1	148.4	.016	.0340	46.2	34.4	.010	.0100	25.0	34.0	325 MESH							
.047	.1752	62.0	65.0	.041	.0590	34.8	116.3	.015	.0350	49.0	30.1	.0095	.0105	27.6	32.0	.0011	.0020	42.0	4.2				
.041	.1812	66.3	49.2	.035	.0650	42.3	83.1	.014	.0360	51.8	26.1	.009	.0110	30.3	28.4	400 MESH							
.035	.1872	70.8	35.7	.032	.0680	46.2	68.8	.0135	.0365	53.3	24.2	.0085	.0115	33.1	25.1	.0010	.0015	36.0	3.7				
.032	.1902	73.1	29.8	.028	.0720	51.8	52.1	.013	.0370	54.8	22.4	.008	.0120	36.0	22.1	TWILLED WEAVE							
5 MESH				.025	.0750	56.3	41.2	.012	.0380	57.8	19.0	.0075	.0125	39.1	19.2	100 MESH							
.092	.1080	29.2	283.4	.023	.0770	59.3	34.7	.011	.0390	60.8	15.9	60 MESH				.005	.0045	25.0	17.0				
.080	.1200	36.0	220.6	.020	.0800	64.0	26.1	.010	.0400	64.0	13.1	.008	.0087	27.2	27.3	110 MESH							
.072	.1280	41.0	176.4	12 MESH				.0095	.0405	65.6	11.8	.0075	.0092	30.5	23.7	.0045	.0046	25.6	12.4				
.063	.1370	46.9	133.2	.041	.0423	25.4	136.7	.009	.0410	67.2	10.5	.007	.0097	33.9	20.4	120 MESH							
.054	.1460	53.3	96.7	.035	.0483	33.2	102.1	24 MESH				.0065	.0102	37.5	17.4	.0042	.0041	24.6	10.4				
.047	.1530	58.5	72.6	.032	.0513	37.5	84.3	.020	.0217	27.1	64.8	.006	.0107	41.2	14.7	130 MESH							
.041	.1590	63.2	54.9	.028	.0553	43.6	63.5	.018	.0237	32.4	51.5	70 MESH				.0040	.0043	26.6	10.2				
.035	.1650	68.1	39.8	.025	.0583	48.4	50.1	.017	.0247	35.1	48.0	.007	.0073	26.1	23.3	.0038	.0039	25.6	14.5				
.032	.1680	70.6	33.2	.023	.0603	51.8	42.2	.016	.0257	38.0	42.1	.0065	.0078	29.8	20.8	140 MESH							
.028	.1720	74.0	25.3	.020	.0633	57.2	31.6	.015	.0267	41.1	36.7	.006	.0083	33.8	17.5	.0033	.0038	28.6	11.8				
.025	.1750	76.6	20.2	.018	.0653	60.8	25.5	.014	.0277	44.2	31.8	80 MESH				150 MESH							
.023	.1770	78.3	17.0	14 MESH				.0135	.0282	45.8	29.4	.006	.0065	27.0	20.4	.0030	.0037	30.8	7.1				
6 MESH				.035	.0364	25.4	116.1	.013	.0287	47.4	27.2	.0055	.0070	31.4	16.9	160 MESH							
.092	.0747	20.2	352.8	.032	.0394	29.8	100.5	.012	.0297	50.8	23.0	.005	.0075	36.0	13.8	.0028	.0035	31.4	7.0				
.080	.0867	27.2	259.1	.028	.0434	36.2	75.5	26 MESH				90 MESH				.0026	.0033	31.2	8.8				
.072	.0947	32.5	216.9	.025	.0464	41.5	59.3	.018	.0205	28.4	56.6	.006	.0051	21.1	22.4	180 MESH							
.063	.1037	38.9	163.0	.023	.0484	45.2	49.8	.017	.0215	31.2	52.6	.0055	.0056	25.4	18.4	200 MESH							
.054	.1127	46.0	117.7	.020	.0514	51.0	37.2	.016	.0225	34.2	46.1	.005	.0061	30.1	15.8	.0025	.0031	31.1	6.7				
.047	.1197	51.8	88.2	.018	.0534	55.1	29.9	.015	.0235	37.3	40.2	100 MESH				.0025	.0025	25.0	6.6				
.041	.1257	57.2	66.5	.017	.0544	57.2	26.6	.014	.0245	40.6	34.7	.0045	.0055	30.3	14.2	.0023	.0027	29.2	6.3				
.035	.1317	62.7	48.1	.016	.0554	59.3	23.5	.0135	.0250	42.3	32.1	.004	.0060	36.0	11.0	250 MESH							
.032	.1347	65.6	40.0	.015	.0564	61.5	20.6	.013	.0255	44.0	29.7	.0035	.0065	42.3	8.3	.0016	.0024	36.0	4.6				
.028	.1387	69.6	30.5	.014	.0574	63.7	17.9	.012	.0265	47.5	25.1	.003	.0070	49.0	6.0	270 MESH							
.025	.1417	72.6	24.3	16 MESH				.011	.0275	51.1	20.9	120 MESH				.0016	.0021	32.2	5.3				
.023	.1437	74.7	20.5	.028	.0345	30.5	83.6	.010	.0285	54.9	17.2	130 MESH				300 MESH							
.020	.1467	77.8	15.5	.025	.0375	36.0	68.9	30 MESH				130 MESH				300 MESH							
7 MESH				.023	.0395	39.9	57.7	.016	.0173	26.9	51.8	.0034	.0043	31.1	11.9	.0015	.0018	29.7	5.2				
.063	.0799	31.4	184.7	.020	.0425	46.2	43.0																
.054	.0889	38.8	139.7	.018	.0445	50.7	34.5																
.047	.0959	45.2	104.2	.017	.0455	53.0	30.7																
.041	.1019	51.0	78.4	.016	.0465	55.4	27.1																
.035	.1079	57.2	56.5	.015	.0475	57.8	23.7																
.032	.1109	60.4	47.0	.014	.0485	60.2	20.6																
.028	.1149	64.8	35.8	.0135	.0490	61.5	19.1																
.025	.1179	68.2	28.4	.013	.0495	62.7	17.7																
.023	.1199	70.6	24.0	.012	.0505	65.3	15.0																
.020	.1229	74.1	18.1	.011	.0515	67.9	12.6																
.018	.1249	76.6	14.6	.010	.0525	70.6	10.4																
8 MESH				.0095	.0530	71.9	9.4	<p>McNICHOLS® Wire Mesh, Woven, 8 Mesh - Cabinet Infill Panels</p>															
.054	.0710	32.3	162.7	18 MESH																.014	.0146	26.1	46.5
.047	.0780	38.9	120.9	.0135	.0151	27.9	45.2																
.041	.0840	45.2	90.6	.025	.0306	30.3	75.0	.013	.0156	29.8	41.6												
.035	.0900	51.8	65.1	.023	.0326	34.4	66.0	.012	.0166	33.8	35.0												
.032	.0930	55.4	54.1	.020	.0356	41.1	49.0	.011	.0176	37.9	29.0												
				.018	.0376	45.8	39.2	.010	.0186	42.4	23.7												

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)



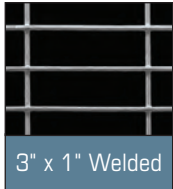
18 x 14 Mesh

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	GAUGE	OPENING	WIDTH
18 x 14	Bronze	.011	.130"	36"
18 x 16	Aluminum	.011	.050"	36", 48"
18 x 14	Stainless Steel Type 304	.009	.090"	36", 48"
18 x 14	Stainless Steel Type 304	.011	.130"	36", 48"
18 x 14	Epoxy Coated	.009	.090"	36", 48"

RECTANGULAR - WELDED



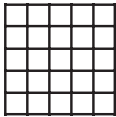
3" x 1" Welded

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

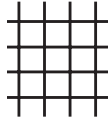
MESH	MATERIAL	GAUGE	#/SF	OPENING	WIDTH
1" x 1/2"	Galvanized	.063	.40	.937" x .437"	60"
2" x 1"	Plain Steel, Galvanized	.080	.31	1.92" x .92"	48"
3" x 1/2"	Plain Steel	.120	.40	2.88" x .380"	48"
3" x 1-1/2"	Stainless Steel	.120	.83	2.88" x 1.38"	36"

WELDED WIRE MESH TRIM & STUB OPTIONS



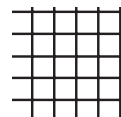
Minimum on all four sides approximately 1/16"-1/8" long. Trimmed flush (no stubs) pieces can be identical.

TRIMMED (NO STUBS)



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

UNTRIMMED BALANCED STUBS



Varies on all four sides. Results from shearing a larger sheet. Pieces will not be identical.

UNTRIMMED RANDOM STUBS



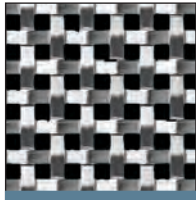
McNICHOLS® Wire Mesh, Welded, 3" x 1-1/2" Rectangular Mesh - Infill Panels



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

DESIGNER WIRE MESH

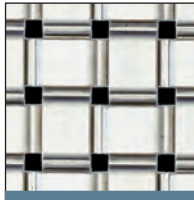
McNICHOLS® Designer Wire Mesh is constructed of wires that are woven into a variety of unique patterns. Designer Wire Mesh applications include ceilings, stairway infill panels, overlay surfaces, wall cladding, sunshades, partitions, store fixtures, cabinet infills, signage or sign backing, aesthetic 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**.



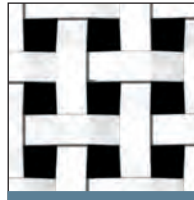
ASHLAND™ 2015



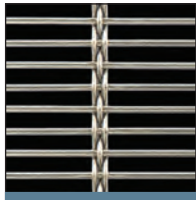
ASHLAND™ 8015



ASHLAND™ 8016



ASHLAND™ 8018



AURA™ 8155



AURA™ 8856



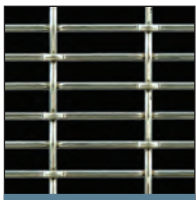
AURA™ 8857



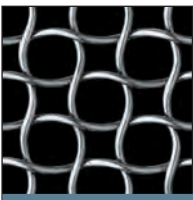
CHATEAU™ 3105



McNICHOLS® Designer Wire Mesh, ASHLAND™ 8018 - Facade



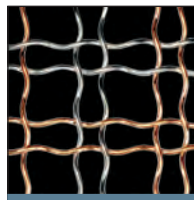
CHATEAU™ 3110



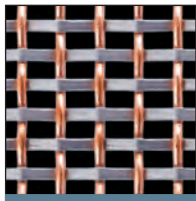
HALO™ 1162



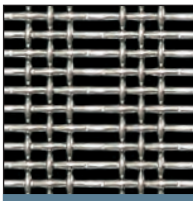
HALO™ 2252



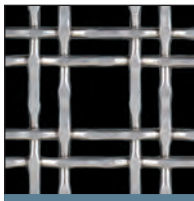
HALO™ 4474



SHIRE™ 8148



SHIRE™ 8314



TALICA™ 8146



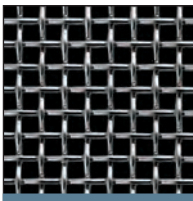
TALICA™ 8150



McNICHOLS® Designer Wire Mesh, CHATEAU™ 3105 - Parking Garage Infill Panel



TALICA™ 8158



TALICA™ 8220



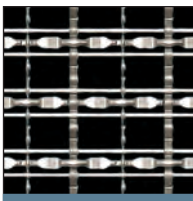
TALICA™ 8221



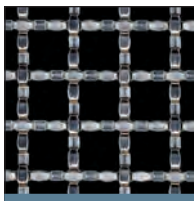
TECHNA™ 8168



TECHNA™ 3155



TECHNA™ 3156



TECHNA™ 8159



TECHNA™ 8163



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

ECO-MESH® & ECO-ROCK®

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® ADVANTAGES

- Galvannealed frame and wire offer superior corrosion resistance to G90 coated metals
- .135" wire diameter is standard
- Fully custom panel sizes available up to 120" wide and 360" long
- Top quality, super-durable powder coating with a 3000 Hr. salt spray rating with high UV resistance
- 13 standard colors available
- LEED opportunities due to 95% recycled metal makeup and SRI Index-rated coating

PRODUCT SPECIFICATIONS

MATERIAL	Galvannealed (most common), Plain Steel, Aluminum, Stainless Steel	McNICHOLS stocks ECO-MESH® in 2" Square Mesh panels, Textured Black, 48" x 96" ■ 866.754.5144 ■ designermetals@mcnichols.com
FINISH	Mill, sandblasted, environmentally-friendly powder coatings with 13 standard colors available	
MESH SIZE	2" x 2" in stock, (1" x 1", 1-1/2" x 1-1/2", 3" x 3" also available)	
WEAVE TYPE	Woven Intercrip (others available)	
WIRE DIAMETER	.135" (.120", .148" available)	
BRIGE WIRE/SPACING	.105" spaced 18" on center	
CHANNEL DEPTH	2", 3", (16 Gauge)	
PANEL WIDTH	48" (24" to 120" available)	
PANEL HEIGHTS	96" (24" to 360" available)	
COLORS	Textured Black, Red Orange, Aged Copper, Forest Green, Red Brick, Reed Green, Moss Green, Tan, Jet Black, Rust, Brown, Light Gray, Gray	
ACCESSORIES	Mounting brackets and hardware available	

WE ARE READY AND INSPIRED TO SERVE® YOU AT 866-754-5144!



HOW TO ORDER/SPECIFY McNICHOLS ECO-MESH®

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

APPLICATION – Wall-mounted or freestanding

MATERIAL – Type of material (Galvannealed, Plain Steel, Aluminum, Stainless Steel)

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

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

WIRE DIAMETER – Thickness (measured in decimals) or gauge equivalent (.135" wire diameter is standard)

BRIDGE WIRE – Thickness (measured in decimals) or gauge equivalent (.105" wire diameter is standard)

CHANNEL DEPTH – 2" or 3" channel depth in 16 gauge is standard (2" deep channel 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



McNICHOLS ECO-MESH® - Exterior Plant Trellis



McNICHOLS ECO-ROCK® - Gabion-Style Wall and Containment System

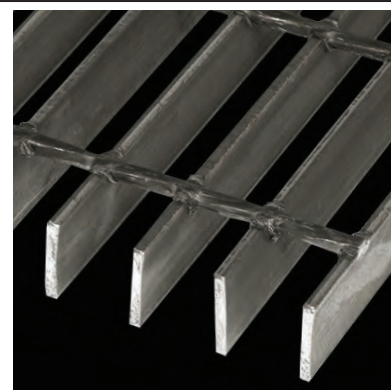
BAR GRATING

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

OPTIONS				
	WELDED	HEAVY-DUTY WELDED	SWAGE-LOCKED	PRESS-LOCKED
SERIES	GW, SGW	GHB, PEDS & TREADS®	GAL, SFT, GIA I-Bar, SAFE-T-GRID®	GCM (CLOSE MESH), GAA
MATERIAL	Plain Steel, Plain Steel (Powder Coated Black), Galvanized Steel, Stainless Steel	Plain Steel, Galvanized Steel	Aluminum, Stainless Steel	Plain Steel, Galvanized Steel, Aluminum, Stainless Steel
SURFACE	Smooth, Serrated	Smooth, Serrated	Smooth, Serrated, Grooved	Smooth, Serrated
BAR THICKNESS	1/8", 3/16"	1/4" (5/16", 3/8" by Special Order)	1/8", 3/16", 1/4", .940" (SAFE-T-GRID®)	3/16"
BAR HEIGHT	3/4" to 2-1/2"	1" to 3"	1" to 2-1/2"	1" to 2"
STANDARD SIZE	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!



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 (pedestrian, ADA, vehicular, hand cart, etc.)

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

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

FINISH – Inventory is typically mill finish for Aluminum and Stainless Steel. Inventory for Plain Steel is mill finish, hot-dipped galvanized or powder coated black.

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

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

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

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).

OPEN AREA – Percentage of open area

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

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 will be 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



McNICHOLS® Bar Grating, GAL 100 - Sunshade



McNICHOLS® Bar Grating, Press-Locked - Display

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 SERIES

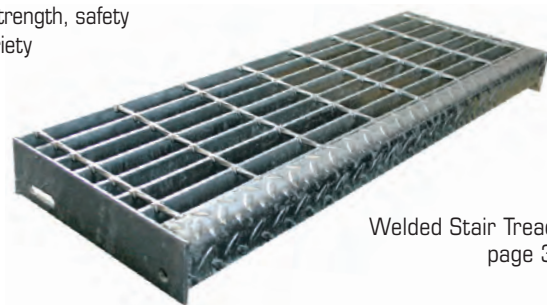


SGW SERIES

GW & 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® SGW Series Grating will handle heavier loads than the GW Series.

Welded Stair Treads
page 32

PRODUCT OPTIONS

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

Serrated Surface



LOAD TABLE: GW, GW-2 (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'	8'
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 the depth of the grating will be 1/4" greater than shown in table.				
	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	89
	D .050	.078	.112	.152	.199	.251	.310	.376	.447	.608	.794
	C 1421	1137	947	812	711	632	568	517	474	406	355
	D .040	.062	.089	.122	.159	.201	.248	.300	.358	.487	.636
1-1/2" x 3/16"	U 2132	1364	947	696	533	421	341	282	237	174	133
	D .050	.078	.112	.152	.199	.251	.310	.376	.447	.608	.794
	C 2132	1705	1421	1218	1066	947	853	775	711	609	533
	D .040	.062	.089	.122	.159	.201	.248	.300	.358	.487	.636
1-3/4" x 3/16"	U 2901	1857	1289	947	725	573	464	384	322	237	181
	D .043	.067	.096	.130	.170	.215	.266	.322	.383	.521	.681
	C 2901	2321	1934	1658	1451	1289	1161	1055	967	829	725
	D .034	.053	.077	.104	.136	.172	.213	.257	.306	.417	.545
2" x 3/16"	U 3789	2425	1684	1237	947	749	606	501	421	309	237
	D .037	.058	.084	.114	.149	.189	.233	.282	.335	.456	.596
	C 3789	3032	2526	2165	1895	1684	1516	1378	1263	1083	947
	D .030	.047	.067	.091	.119	.151	.186	.225	.268	.365	.477
2-1/4" x 3/16"	U 4796	3069	2132	1566	1199	947	767	634	533	392	300
	D .033	.052	.074	.101	.132	.168	.207	.250	.298	.406	.530
	C 4796	3837	3197	2741	2398	2132	1918	1744	1599	1370	1199
	D .026	.041	.060	.081	.106	.134	.166	.200	.238	.324	.424
2-1/2" x 3/16"	U 5921	3789	2632	1933	1480	1170	947	783	658	483	370
	D .030	.047	.067	.091	.119	.151	.186	.225	.268	.365	.477
	C 5921	4737	3947	3383	2961	2632	2368	2153	1974	1692	1480
	D .024	.037	.054	.073	.095	.121	.149	.180	.215	.292	.381

Unit Stress 18,000 psi: U - Uniform Load - # per sq. ft., D - Deflection in inches, C - Concentrated Load - # per ft. 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.

BAR SPACING: GW, GW-2, SGW

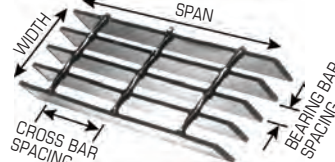
	GW (19W4)	GW-2 (19W2)	SGW (15W4)	SGW-2 (15W2)
BAR SPACING				
END VIEW (1/8" THICKNESS ALSO AVAILABLE)				
BEARING BAR SIZE (HEIGHT x THICKNESS)	SERIES #/SF	SERIES #/SF	SERIES #/SF	SERIES #/SF
3/4" x 1/8"	GW-75A 4.1	GW-75A-2 5.0	SGW-75A 5.0	SGW-75A-2 5.9
3/4" x 3/16"	GW-75 5.8	GW-75-2 6.7	SGW-75 7.2	SGW-75-2 8.1
1" x 1/8"	GW-100A 5.2	GW-100A-2 6.1	SGW-100A 6.4	SGW-100A-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-125A 6.3	GW-125A-2 7.2	SGW-125A 7.9	SGW-125A-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-150A 7.4	GW-150A-2 8.3	SGW-150A 9.3	SGW-150A-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, GW-2, 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 ± 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"			

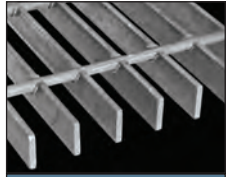
Rectangular Bar Grating Diagram

- Width
- Span
- Cross Bar Spacing
- Bearing Bar Spacing



HEAVY-DUTY WELDED BAR GRATING

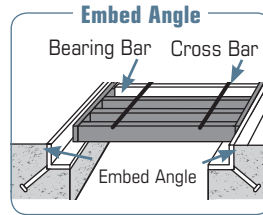
McNICHOLS® Heavy-Duty Welded Bar Grating is your choice for applications requiring maximum load-bearing capability.



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

LOAD TABLE: GHB, GHB-2 (STEEL)

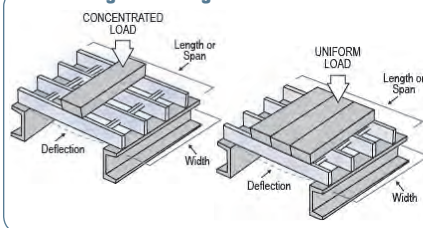
BEARING BAR SIZE		SPAN (1-3/16" CENTER TO CENTER BAR SPACING)															
		1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	
1" x 1/4"	U	5615	2495	1404	898	624	458	351	277	225	186	156	133	115	100	88	
	D	.021	.047	.083	.129	.186	.253	.331	.419	.518	.627	.745	.875	1.018	1.166	1.329	
	C	2807	1872	1404	1123	936	802	702	624	561	510	468	432	401	374	351	
	D	.016	.037	.066	.104	.149	.203	.265	.335	.414	.500	.596	.700	.811	.931	1.060	
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	
	D	.013	.030	.053	.083	.119	.162	.212	.268	.331	.400	.477	.560	.649	.745	.847	
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	
	D	.011	.025	.044	.069	.099	.135	.177	.224	.276	.334	.397	.466	.541	.621	.707	
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	
	D	.010	.021	.038	.059	.085	.116	.151	.192	.236	.286	.341	.400	.463	.532	.606	
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	
	D	.008	.019	.033	.052	.075	.101	.132	.168	.207	.250	.298	.350	.406	.466	.530	
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	.529	
	C	17544	11696	8772	7118	5848	5013	4386	3899	3509	3190	2924	2699	2506	2339	2193	
	D	.007	.015	.027	.041	.060	.081	.106	.134	.166	.200	.238	.280	.324	.372	.424	
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	
	D	.006	.012	.022	.035	.050	.068	.088	.112	.138	.167	.199	.233	.270	.310	.353	
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	
	D	.005	.011	.019	.030	.043	.058	.076	.096	.118	.143	.170	.200	.232	.266	.303	
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	
	D	.004	.009	.017	.026	.037	.051	.066	.084	.104	.125	.149	.175	.203	.233	.265	

U - Uniform Load - pounds per sq. ft.; D - Deflection in inches;
 C - Concentrated Load - pounds per ft. 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 (19W4)		GHB-2 (19W2)	
BAR SPACING				
END VIEW (3/8" AND 5/16" THICKNESS ALSO AVAILABLE)				
BEARING BAR SIZE (HEIGHT x THICKNESS)	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

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
Surface: Smooth, Serrated
Bar Height: 1" to 2" (2-1/4" and 2-1/2" Special Order)
Bar Thickness: 1/8", 3/16" (Rectangular)
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 - # per sq. ft. C - Concentrated Load - # per ft. width D - Deflection in inches at mid span For Serrated Grating the depth of the grating will be 1/4" greater than shown in table.				
	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					
	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	.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: GAL

BAR SPACING	GAL		GAL-2	
	Diagram	Series	Diagram	Series
END VIEW (1/8" THICKNESS ALSO AVAILABLE)				
BEARING BAR SIZE (HEIGHT x THICKNESS)	SERIES	#/SF	SERIES	#/SF
1" x 1/8"	GAL-100A	1.8	GAL-100A-2	2.0
1" x 3/16"	GAL-100	2.6	GAL-100-2	2.8
1-1/4" x 1/8"	GAL-125A	2.1	GAL-125A-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-150A	2.5	GAL-150A-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



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 CG	TYPE Z	TYPE J	TYPE SSGC

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

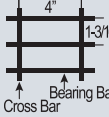
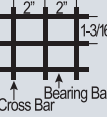
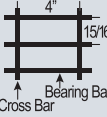
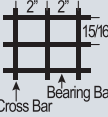
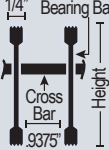
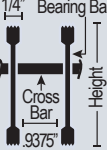
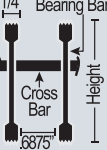
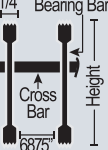
LOAD TABLE: GIA, GIA-2 (ALUMINUM)

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		GIA-2		SGIA		SGIA-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

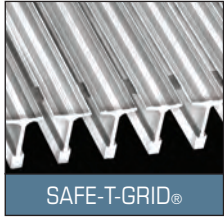
PANEL WIDTHS: GIA, SGIA

#BARS	GIA, GIA-2	SGIA	#BARS	GIA, GIA-2	SGIA	#BARS	GIA, GIA-2	SGIA
2	1-7/16"	1-3/16"	15	16-7/8"	13-1/16"	28	32-5/16"	25"
3	2-5/8"	2-1/8"	16	18-1/16"	14"	29	33-1/2"	25-15/16"
4	3-13/16"	3"	17	19-1/4"	14-15/16"	30	34-11/16"	26-13/16"
5	5"	3-15/16"	18	20-7/16"	15-13/16"	31	35-7/8"	27-3/4"
6	6-3/16"	4-13/16"	19	21-5/8"	16-3/4"	32		28-11/16"
7	7-3/8"	5-3/4"	20	22-13/16"	17-5/8"	33		29-9/16"
8	8-9/16"	6-11/16"	21	24"	18-9/16"	34		30-1/2"
9	9-3/4"	7-9/16"	22	25-3/16"	19-1/2"	35		31-7/16"
10	10-15/16"	8-1/2"	23	26-3/8"	20-3/8"	36		32-5/16"
11	12-1/8"	9-7/16"	24	27-9/16"	21-5/16"	37		33-1/4"
12	13-5/16"	10-5/16"	25	28-3/4"	22-1/4"	38		34-3/16"
13	14-1/2"	11-1/4"	26	29-15/16"	23-3/16"	39		35-1/16"
14	15-11/16"	12-3/16"	27	31-1/8"	24-1/16"	40		36"



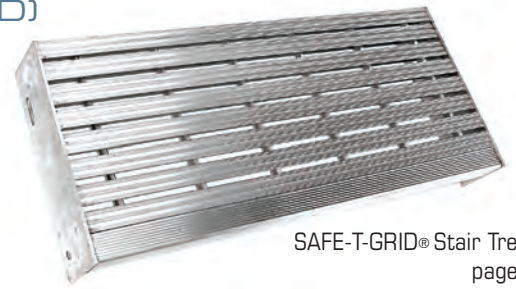
McNICHOLS® Bar Grating, GAL 150 - Stair Treads

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
Surface:	Grooved (GRIP TIGHT® Available)
Bar Height:	1", 1-1/4", 1-1/2" (2" Special)
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	U	2'	2' 6"	3'	3' 6"	4'	4' 6"	5'	5' 6"	6'	6' 6"	7'	7' 6"	8'
1"	TB-626	D	.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	1.213	1.011	.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	1.112	.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	1.391	1.159	.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	1.293	.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	1.617	1.347	1.155	1.011	.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	1.500	1.042	.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	1.876	1.563	1.340	1.172	1.042	.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	2.031	1.410	1.036	.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	2.538	2.115	1.813	1.587	1.410	1.269	1.154	1.058	.976	.907	.846	.793
		D	.055	.087	.125	.170	.222	.281	.347	.420	.499	.586	.680	.780	.887
2"	TB-940	U	3719	2.380	1.653	1.214	.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	2.975	2.479	2.125	1.859	1.653	1.488	1.352	1.240	1.144	1.063	.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.

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 vehicular traffic or barefoot pedestrians.

BAR SPACING: SAFE-T-GRID®

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



McNICHOLS SAFE-T-GRID® - Pedestrian Entryway Flooring



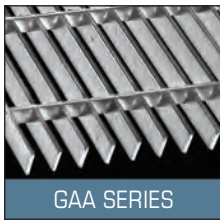
McNICHOLS SAFE-T-GRID® - Stair Treads with Round Hole Perforated Metal Stair Risers

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® Close Mesh GCM Series 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 plain 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:	Plain Steel, Galvanized, Aluminum, Stainless Steel
Surface:	Smooth, Serrated
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" (1/8" Special Order)
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 3587	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	429	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)


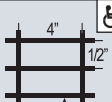

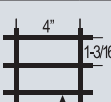
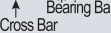
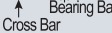
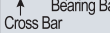
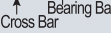
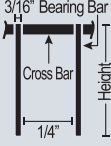
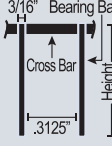
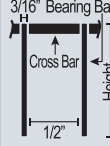
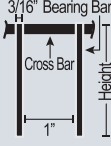




BEARING BAR SIZE	SPAN (7/16" CENTER TO CENTER BAR SPACING)															
	1'	1'6"	2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	
3/4" x 3/16"	U 5785	2571	1446	926	643	472	362	286	231	191	161	137	118	103	90	
	D .025	.056	.099	.155	.224	.304	.398	.503	.620	.750	.895	1.049	1.216	1.399	1.582	
	C 2893	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	509	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	.298	.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	3500	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	.421	.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	.454	.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	

Unit Stress 18,000 psi

U - Uniform Load - # per sq. ft. C - Concentrated Load - # per ft. width at mid span D - Deflection in inches

Load table for other sizes are available upon request.

BAR SPACING: GCM, GAA

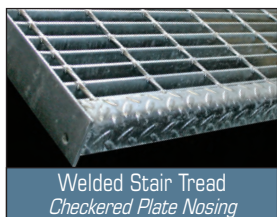
	GCM-1 (7P4)		GCM-2 (8P4)		GCM-4 (11P4)		GAA (19P4)	
BAR SPACING								
								
END VIEW								
								
BEARING BAR SIZE (HEIGHT x THICKNESS)	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF	SERIES	#/SF
3/4" x 1/8"			GCM-2-75A	8.6			GAA-75A	4.4
3/4" x 3/16"	GCM-1-75	13.7	GCM-2-75	12.3	GCM-4-75	9.0	GAA-75	5.7
1" x 1/8"			GCM-2-100A	11.5			GAA-100A	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-2-125A	14.2			GAA-125A	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-2-150A	17.2			GAA-150A	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. 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. Width and length tolerance ± 1/4"				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	3-4"	20	8-1/2"	9-11/16"	13-1/4"	22-3/4"			
5					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					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"	4-11/16"	6-3/8"	10-7/8"	26	11-1/8"	12-11/16"	17-3/8"	29-7/8"
11					10	4-9/16"	5-3/16"	7-1/16"	12-11/16"	27	11-9/16"	13-3/16"	18-1/16"	31-1/16"
12	11	5"	5-11/16"	7-3/4"	13-1/4"	28	12"	13-11/16"	18-3/4"	32-1/4"				
13	12	5-7/16"	6-3/16"	8-7/16"	14-7/16"	29	12-7/16"	14-3/16"	19-7/16"	33-7/16"				
14	13	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	14	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	15	6-3/4"	7-11/16"	10-1/2"	18"	32	13-3/4"	15-11/16"	21-1/2"					
17	16	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

GW SERIES

McNICHOLS® 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.



Heavy-Duty Welded Stair Tread
Cast Abrasive Nosing

GHB SERIES

McNICHOLS® Heavy-Duty Welded GHB 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.



Swage-Locked Stair Tread
Corrugated Angle Nosing

GAL SERIES

McNICHOLS® 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.



I-Bar Stair Tread
Corrugated Angle Nosing

GIA SERIES

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



SAFE-T-GRID® Stair Tread
Corrugated Angle Nosing

SAFE-T-GRID®

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

PRODUCT OPTIONS

Material:	Plain Steel, Plain Steel (Powder Coated Black), Galvanized, Stainless Steel
Surface:	Smooth, Serrated
Bar Height:	1", 1-1/4", 1-1/2"
Bar Thickness:	1/8", 3/16"
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:	Plain Steel, Plain Steel (Powder Coated Black),
Surface:	Smooth, Serrated
Bar Height:	1", 1-1/4", 1-1/2"
Bar Thickness:	1/4"
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
Surface:	Smooth, Serrated
Bar Height:	1", 1-1/4", 1-1/2", 1-3/4"
Bar Thickness:	3/16"
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
Surface:	Grooved
Bar Height:	1", 1-1/4", 1-1/2", 1-3/4"
Bar Thickness:	1/4"
Width:	8-5/8", 9-13/16", 11", 12-3/16"
Length/Span:	In stock or made to order fast!

PRODUCT OPTIONS

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

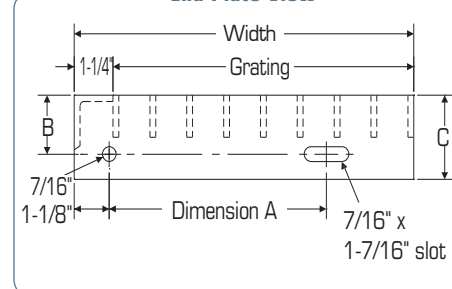
MAXIMUM STAIR TREAD SPANS

	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"		

ENDPLATE 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



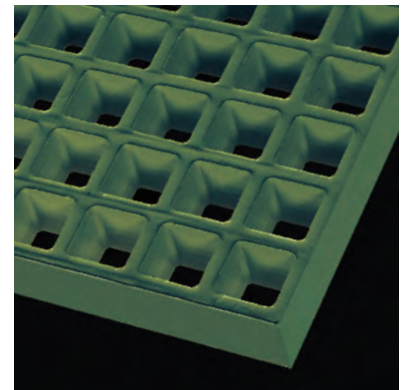
FIBERGLASS GRATING

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 anywhere frequent grating and walkway replacement costs are prohibitive.

PRODUCT SPECIFICATIONS

OPTIONS					
	SQUARE MOLDED	RECTANGULAR MOLDED	PULTRUDED I-BAR	PULTRUDED T-BAR	PLANK, PLATE & DECKING
TYPE	Square Grid, MINI-GRID™	Rectangular Grid	DURADEK® MS I-6000 Series, DURAGRID® MS I-4000 Series, DURAGRID® MS I-6515	DURADEK® MS T-5020, DURAGRID® MS T-1810, DURAGRID® MS T-1210, DURAGRID® MS T-3810	SAFPLANK®, SAFPLATE®, SAFDECK®
	Concave, Grit	Concave, Grit	Fine Grit, Medium Grit, Coarse Grit	Fine Grit, Medium Grit, Coarse Grit	Grit: Punched or Solid Smooth: Punched or Solid
SURFACE					
HEIGHT	1", 1-1/2", 2"	1", 1-1/2"	1", 1-1/2"	1", 1-1/2", 2"	Plank: 2" Plate: .125", .250" Deck: 1.125"
RESIN TYPE	Polyester, Vinyl Ester	Polyester, Vinyl Ester	Polyester, Vinyl Ester, Phenolic	Polyester, Vinyl Ester	Polyester
PANEL SIZE	60" x 120" 48" x 144" 48" x 120" 48" x 96" 36" x 120"	144" x 48" 144" x 36" 120" x 36" 96" x 48" 48" x 144"	48" x 240" 36" x 240"	48.125" x 144" 48" x 240" 36" x 240"	Plank: 12" & 24" x 144", 240" & 288" Plate: 48" x 96" Deck: 24" x 240", 24" x 288"

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



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)

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

CONSTRUCTION & TYPE – Molded (Square, Rectangular, MINI-GRID™), Pultruded (I-Bar, T-Bar, Wide T-Bar)

GRID/BEARING BAR HEIGHT – Molded grid or Pultruded bearing bar height

GRID/BEARING BAR SPACING – Molded grid pattern spacing (measured in inches) or Pultruded bearing bar spacing (spacing center to center of bearing bar, between bearing bar top flanges and between bottom bearing bar bottom flanges)

OPEN AREA – Percentage of open area

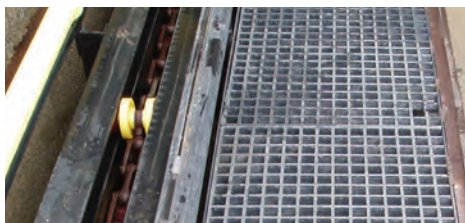
SURFACE – Concave, grit (Molded) or fine, medium or coarse grit (Pultruded) surface

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 such as fabrication, notching, cut-outs, stair treads, EXTREN® Structural Shapes and Plate, non-standard tolerances, etc.

ACCESSORIES – Quantity and type of clips or fasteners/hardware

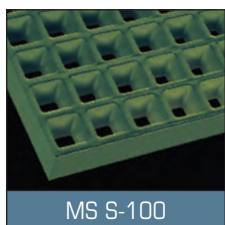


McNICHOLS® Fiberglass Grating, Molded - Flooring

FIBERGLASS RESIN CHARACTERISTICS		
RESIN CHARACTERISTICS	RESIN	DESCRIPTION
	SPF Polyester	Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84
	SVF Vinyl Ester	Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84
	SGF Polyester	Orthophthalic Polyester Architectural Grade, Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84
	SFF Polyester	Food Grade, Fire Retardant, Class 2 Flame Rating of 30 or less per ASTM E-84
	SPH Phenolic	Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84, Flame Spread 10, Smoke Index 10
	NFR Various Composites	Non-Fire Retardant

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

McNICHOLS® Square Grid 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

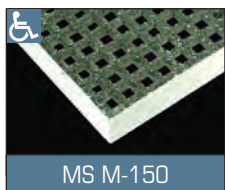
LOAD TABLE: MS S-150

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
C - Deflection Under Concentrated Load

Safe Load 5:1
Safety Factor

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



MINI-GRID™

McNICHOLS MINI-GRID™ Grating has a grid surface of 3/4" squares, while the bottom grid is 1-1/2" squares. The small surface openings make it ideal for ADA applications with an open area of 44%.

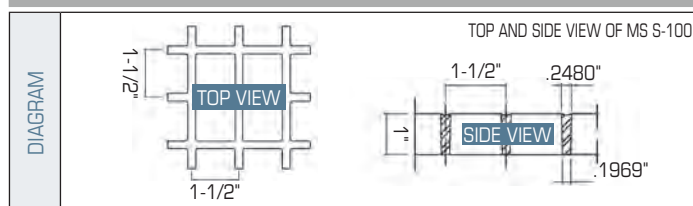
LOAD TABLE: MINI-GRID™

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					332
	C	0.069	0.138	0.207	0.276					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



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

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

LOAD TABLE: MS S-200

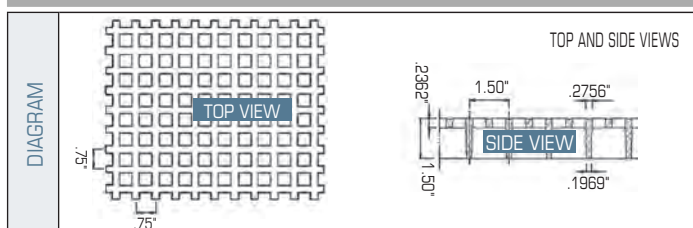
SPAN	LOAD	50	100	150	200	250	300	400	500	SAFE LOAD
12"	U	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	4000
	C	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.013	0.016	2000
18"	U	<0.010	<0.010	0.012	0.016	0.020	0.024	0.032	0.040	1813
	C	<0.010	<0.010	0.013	0.017	0.021	0.026	0.034	0.043	1360
24"	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
C - Deflection Under Concentrated Load

Safe Load 5:1
Safety Factor

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

PRODUCT DETAILS: MINI-GRID™

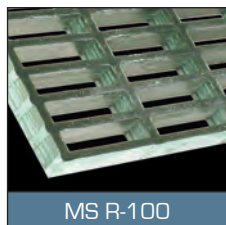


OPTIONS	Resin:	SGF	Height:	1-1/2"
	Color:	Dark Grey, Green	Width:	48"
	Surface:	Grit	Length:	144"
	Grid:	Top Sq.: 3/4" x 3/4" Bottom Sq.: 1-1/2" x 1-1/2"		

STOCK LIST	SERIES	HEIGHT	GRID SIZE	% O/A	#/SF	RESIN/TYPE
	MS M-150	1-1/2"	3/4" x 3/4" (TOP)	44%	4.4	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" panel 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 Factor

MS 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

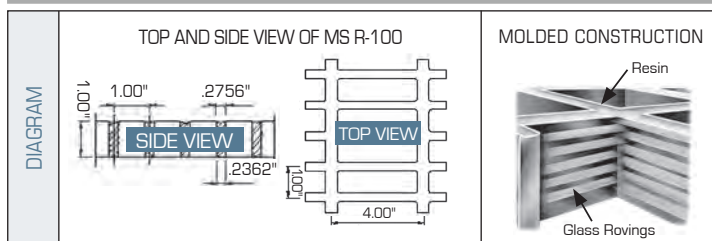
U - Deflection Under Uniform Load
C - Deflection Under Concentrated Load

Safe Load 5:1
Safety Factor

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	Height:	1", 1-1/2"
	Color:	Dark Gray	Width:	96", 120", 144"
	Surface:	Concave or Grit	Length:	36", 48"
	Grid:	1" x 4", 1-1/2" x 6"		

STOCK LIST	GRID	SERIES	HEIGHT	% O/A	#/SF
	1" x 4"	MS R-100	1"	69%	2.8
	1-1/2" x 6"	MS R-150	1-1/2"	67%	3.75

CLIPS & FASTENERS



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

FIBERGLASS STAIR TREAD COVER/PANEL

RESIN	SGF
COLOR	Black with Yellow Nosing
SURFACE	Grit
LIP	2" Yellow Lip
SIZE	9", 10" width (In Stock) 8", 11", 12" width (Special Order)
LENGTH	144" Panel

FIBERGLASS MOLDED STAIR TREAD/PANEL

RESIN	SGF
COLOR	Gray, Green
SURFACE	Grit
GRID HEIGHT	1-1/2"
GRID SIZE	1-1/2" x 6"
NOSING	Integral, both sides of panel
SPAN/ DEFLECTION	31" (1/8" or less deflection) 38" (1/4" or less deflection)
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 7-5/8", 9-1/8" and 10-5/8"

PULTRUDED I-BAR FIBERGLASS GRATING

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



MS I-6010

McNICHOLS DURADEK® MS I-6010 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							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

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.

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

Safe Load 2:1
Safety Factor



MS I-6015

McNICHOLS DURADEK® MS I-6015 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. DURADEK® MS I-6015 has a 1-1/2" height with an open area of 60%.

LOAD TABLE: MS I-6015

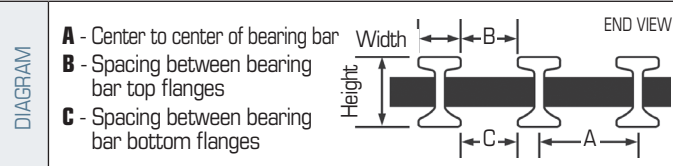
SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000	SAFE LOAD
12"	U	.001	.001	.002	.003	.003	.005	.006	.013	.019	.026	.032	.038	.045	17601
	C	.001	.002	.003	.004	.005	.008	.010	.020	.031	.041	.051	.061	.072	8800
18"	U	.003	.006	.009	.012	.015	.023	.030	.061	.091	.121	.152	.182	.212	7823
	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	.219	.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

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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
Surface: Medium Grit, Fine Grit
Height: 1", 1-1/2"
Width: 36", 48"
Length: 120", 144", 240"

BEARING BAR SIZE	SERIES	#/SF	A	B	C	% O/A
MS I-4000 SERIES (PAGE 37)						
1" x .6	MS I-4010	3.4	1.00"	.400"	.400"	40%
1.5" x .6"	MS I-4015	4.2	1.00"	.400"	.400"	40%
MS I-6000 SERIES						
1" x .6"	MS I-6010	2.4	1.50"	.900"	.900"	60%
1.5" x .6"	MS I-6015	3.0	1.50"	.900"	.900"	60%
1.5" x .6"	MS I-6515*	2.7	1.71"	1.11"	1.11"	65%

*Has 8" cross bar spacing



MS I-6515

McNICHOLS DURADEK® MS I-6515 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						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

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.

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

Safe Load 2:1
Safety Factor



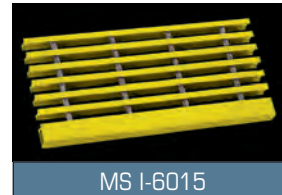
MS I-4010



MS I-4015

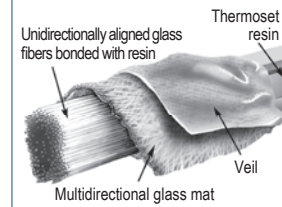
MS I-4010 & MS I-4015

McNICHOLS DURAGRID® MS I-4000 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. DURAGRID® MS I-4000 Series is similar to DURADECK® I-6000 series but has an open area of 40%.



MS I-6015

Pultruded Construction



PULTRUDED FIBERGLASS STAIR TREAD/PANEL

RESIN	SGF
BAR HEIGHT	1-1/2" I-Bar; DURADECK® MS I-6015
COLOR	Gray, Yellow
NOSING	Integral, one side of panel
SURFACE	Grit
SPAN/ DEFLECTION	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)
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 Treads may be cut to size to width and length desired

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								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

LOAD TABLE: MS I-4015

SPAN	LOAD	100	200	300	400	500	750	1000	2000	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 DURADECK® MS T-5020 Pultruded T-Bar Fiberglass Grating is an alternative to metal grating if more surface area is desired. **McNICHOLS DURAGRID® MS T-5020** has a large open area of 50% but a 1-1/2" bar height.

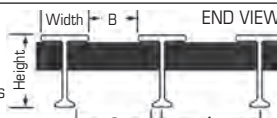
LOAD TABLE: MS T-5020

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

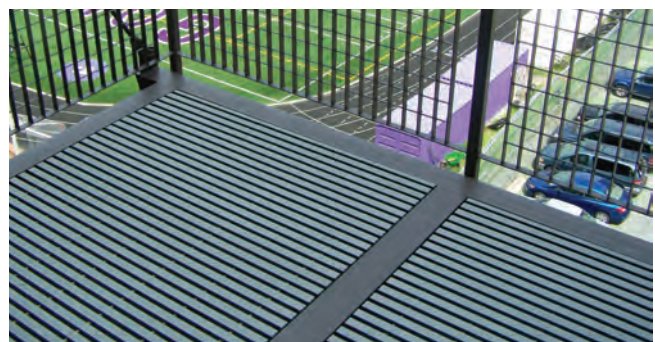
U - Deflection Under Uniform Load
C - Deflection Under Concentrated Load

Safe Load 2:1
Safety Factor

PRODUCT DETAILS: T-BAR SERIES

DIAGRAM				
	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	Height:	2"
	Surface:	Grit - Fine, Medium, Coarse	Width:	36", 48"
	Color:	SPF - Gray, Yellow	Length:	240"
		SVF - Gray, Yellow		

STOCK LIST	BEARING BAR SIZE	SERIES	#/SF	A	B	C	% O/A
	2" x 1"	MS T-5020	3.0	2'	1"	1.40"	50%



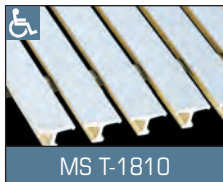
McNICHOLS® Fiberglass Grating, Pultruded T-Bar Series - Balcony Platform

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 T-1210**

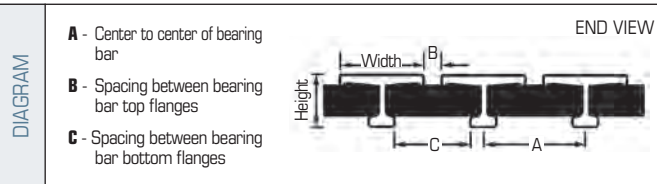
McNICHOLS DURAGRID® MS T-1210 Grating is available with a 1" bearing bar height in gray polyester resin with medium grit in a 144" length. This grating has a tight bar spacing and a small open area of 12%, making it ideal for ADA applications.

**MS T-1810**

McNICHOLS DURAGRID® MS T-1810 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 T-3810**

McNICHOLS DURAGRID® MS T-3810 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

OPTIONS

Resin:	SPF, SVF	Height:	1"
Surface:	Fine, Medium Grit	Width:	36", 48"
Color:	SPF - Gray, White, Yellow	Length:	144", 240"

STOCK LIST

BEARING BAR SIZE	MODEL	#/SF	A	B	C	% O/A
1" x 1.625"	MS T-1210	2.79	1.85"	.225"	1.35"	12%
1" x 1.625"	MS T-1810	2.60	2.00"	.375"	1.50"	18%
1" x 1.625"	MS T-3810	2.10	2.62"	.995"	1.62"	38%

LOAD TABLE: MS T-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

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

Safe Load 2:1
Safety Factor

LOAD TABLE: MS T-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

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.

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 T-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

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.

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

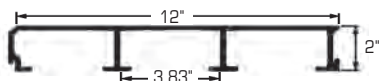
Safe Load 2:1
Safety Factor

FIBERGLASS PLATE, PLANK & DECKING

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

**SAFPLANK®**

McNICHOLS SAFPLANK® 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	Height:	2"
Color:	Slate Gray	Width:	12", 24"
Surface:	Grit: Punched or Solid	Length:	144", 240", 288"
	Smooth: Punched or Solid		

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							
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 Loa

C - Deflection Under Concentrated Loa

**SAFPLATE®**

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

PRODUCT OPTIONS

Resin:	SPF	Thickness:	.125", .250", .500"
Color:	Gray	Width:	48"
Surface:	Smooth, Grit	Length:	96"

LOAD TABLE: SAFPLATE®

THICK	LOAD	SPAN								
		12"	18"	24"	30"	36"	42"	48"	54"	60"
1/4"	U	.167	.34	.11						
	U	.120	.125	.125			For allowable loads when sheet is spanning in crosswise direction multiply table values by .55 for 1/4" and .70 for all other thicknesses shown here.			
	C	.104	.32	.14						
	C	.120	.125	.125						
3/8"	U	.562	.167	.55	.23	.11				
	U	.120	.180	.188	.188	.188				
	C	.351	.156	.69	.35	.20				
	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		
	C	.120	.180	.240	.250	.250	.250	.250		
5/8"	U	.2600	.768	.326	.167	.84	.45	.27	.17	.11
	U	.120	.180	.240	.300	.312	.312	.312	.312	.312
	C	.1622	.723	.407	.260	.157	.99	.66	.47	.34
	C	.120	.180	.240	.300	.312	.312	.312	.312	.312
3/4"	U	.4499	.1333	.563	.288	.167	.94	.55	.34	.22
	U	.120	.180	.240	.300	.360	.375	.375	.375	.375
	C	.2804	.1250	.702	.450	.313	.205	.138	.97	.71
	C	.120	.180	.240	.300	.360	.375	.375	.375	.375
1"	U	10.677	.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
	C	.120	.180	.240	.300	.360	.420	.480	.500	.500

U - Deflection Under Uniform Loa

C - Deflection Under Concentrated Loa

**SAFDECK®**

McNICHOLS SAFDECK® 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 an ADA compliant product.

PRODUCT OPTIONS

Resin:	SPF Composite	Height:	1.125"
Color:	Slate Gray	Width:	24"
Surface:	Grit: Punched or Solid	Length:	240", 288"
	Smooth: Punched or Solid		

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		

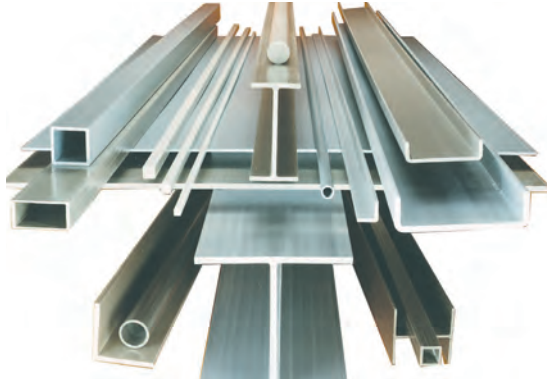
U - Deflection Under Uniform Loa

C - Deflection Under Concentrated Loa

SAFDECK® Side View

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.



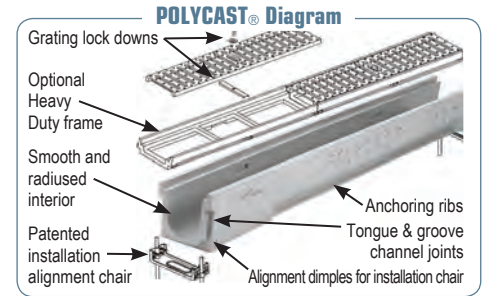
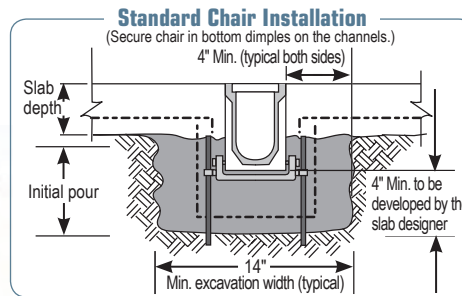
- IMPACT RESISTANT
- LIGHTWEIGHT
- DIMENSIONAL STABILITY
- HIGH STRENGTH
- LOW MAINTENANCE
- LOW CONDUCTIVITY
- NON-MAGNETIC
- EASY FABRICATION

FIBERGLASS RESIN CHARACTERISTICS

RESIN CHARACTERISTICS	RESIN	TYPE	DESCRIPTION
	SPF	Polyester	Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84
	SVF	Vinyl Ester	Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84
	SGF	Polyester	Orthophthalic Polyester Architectural Grade, Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84
	SFF	Polyester	Food Grade, Fire Retardant, Class 2 Flame Rating of 30 or less per ASTM E-84
	SPH	Phenolic	Fire Retardant, Class 1 Flame Rating of 25 or less per ASTM E-84. Flame Spread 10, Smoke Index 10
	NFR	Various Composites	Non-Fire Retardant

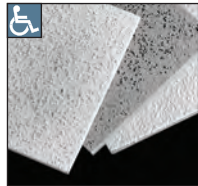
POLYCAST® PRESLOPED TRENCH DRAIN SYSTEM

McNICHOLS® Presloped Trench Drain System Series 600 is designed to have flow rates equal to or greater than most larger poured-in-place trench drain grates. Kit options available.



METAL PLATE & METAL DECK FLOORING

McNICHOLS® Metal Plate and Metal Deck 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®

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

PRODUCT OPTIONS

Material: Plain Steel
Finish: Steel Oxide Grit (Aluminum Available)
Thickness: 1/4", 3/8"
Size: 60" x 120", 60" x 144"

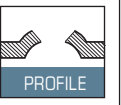


TRACTION TREAD™

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

PRODUCT OPTIONS

Material: Plain Steel, Aluminum Type 5052-H32, Chevron pattern - Stainless Steel Type 304
Gauge: 16, 14, 11, .125 Aluminum
Size: .36" x 120"



TREADTEX®

McNICHOLS TREADTEX® is a practical solution for industrial applications such as truck steps or flooring for maintenance, machinery or conveyor areas. The plate is easy to fabricate and ideal for durable sheet metal applications. ADA approved.

PRODUCT OPTIONS

Material: Galvannealed Steel
Gauge: 16
Size: 48" x 96"



DIAMONDBACK®

McNICHOLS DIAMONDBACK® Tread Plate Interlocking Flooring has aggressive, serrated ridges that provide slip resistance superior to other skid-resistant aluminum floor plates. The plate has legs that raise it off the floor by .36", providing drainage and longitudinal stiffness. ADA approved.

PRODUCT OPTIONS

Material: Aluminum Type 6061-T6
Height: .36"
Surface: Serrated Solid (Vented by Special Order)
Size: 12" x 144"

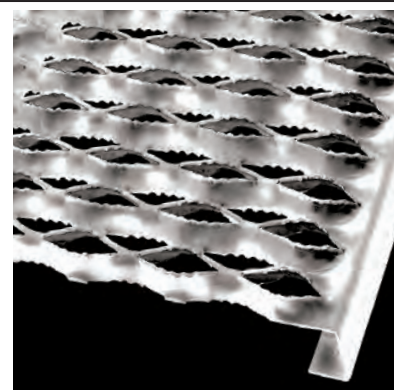
PLANK GRATING

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

OPTIONS					
	GRIP STRUT®	PERF-O GRIP®	TRACTION TREAD™	GRATE-LOCK®	DIAMONDBACK®
STYLE	Plank, Walkway, Heavy-Duty Plank, Heavy-Duty Walkway	Plank, Walkway	Plank	Plank with Grip Surface, Plank with Smooth Surface	Solid, Vented
MATERIAL	Plain Steel, Galvanized, Aluminum, Stainless Steel	Plain Steel, Galvanized, Aluminum	Galvanized, Aluminum	Galvanized	Aluminum
WIDTH	Plank: 4-3/4", 7", 9-1/2", 11-3/4", 18-3/4", 24" Walkway: 24" HD Plank: 9-1/4" HD Walkway: 30"	Plank: 5", 7", 10", 12", 18" Walkway: 24", 30", 36"	7", 10", 12", 18"	9", 12"	6", 12"
CHANNEL DEPTH	Plank: 1-1/2", 2", 2-1/2", 3" Walkway: 4-1/2" HD Plank: 2" HD Walkway: 5"	Plank: 1-1/2", 2" Walkway: 5"	1-1/2", 2"	1-1/2", 2", 2-1/2", 3", 4" (Special Order)	1", 1-1/2", 2" Height
LENGTH	120", 144" (Longer by Special Order)	120", 144" (Longer by Special Order)	120", 144"	144" (1-1/2" Ht.); 144", 240", 288" (2-1/2" Ht.); 288" (3" Ht.)	144"

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



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.)

GRATING TYPE – GRIP STRUT® (Plank, Walkway), Heavy Duty GRIP STRUT® (Plank, Walkway), PERF-O GRIP® (Plank, Walkway), GRATE-LOCK® Plank, TRACTION TREAD™ Plank, DIAMONDBACK® Deck Plate Plank, Heavy-Duty Extruded Plank

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

FINISH – Inventory is typically mill finish unless otherwise specified

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

SIZE – Channel depth, number of openings (e.g. 5 Diamond), width and length (e.g. 2" channel depth, 5 Diamond, 11-3/4" width x 144" length). For GRATE-LOCK® Plank Grating, Flange options (e.g. Female to Male) are required.

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 plates



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



McNICHOLS® Plank Grating, PERF-O GRIP® - Equipment Platform

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.



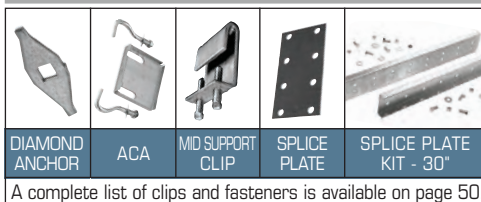
GRIP STRUT® PLANK

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: Plain Steel, Galvanized Steel, Stainless Steel, Aluminum
Gauge: 16, 14, 12 (Stainless Steel), .080, .100 (Aluminum)
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

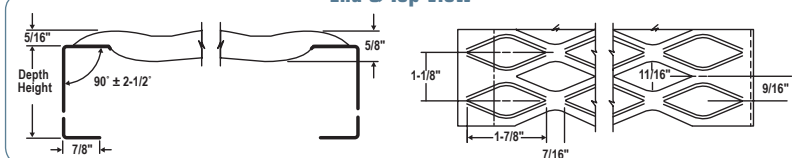
CLIPS & FASTENERS



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" 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																			
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/SF) C - Concentrated Load D - Deflection (inches)			
		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	1.96
		C	1105	886	739	635	557	496	448	409	376	348	325	305	287	258	235	216	201
		D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.51	.59	.67	.86	1.07	1.31	1.58
ALUMINUM TYPE 5052-H32 12 GAUGE .080"																			
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/SF.					
		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						

LOAD TABLE: 3-DIAMOND PLANK (7" 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																		
1-1/2" (38.1)	3.0 (4.46)	U	899	577	402	269	227	180	147	122	103	10' and 12' lengths available for most spans. Galvanized available in 14 Gauge and 12 Gauge. Please visit mcnichols.com for more information.						
		D	.06	.10	.14	.20	.26	.33	.40	.49	.59							
		C	524	421	351	302	265	237	214	196	180							
		D	.05	.08	.11	.16	.21	.26	.32	.39	.47							
2" (50.8)	3.2 (4.76)	U	1492	957	665	490	376	298	242	201	169	145	125	110	97	77	63	
		D	.06	.09	.13	.17	.23	.29	.35	.43	.51	.61	.71	.81	.93	1.19	1.49	
		C	871	697	582	500	439	391	353	322	296	275	256	240	226	203	185	
		D	.04	.07	.10	.14	.18	.23	.28	.34	.41	.48	.56	.65	.74	.95	1.19	
STEEL 12 GAUGE																		
1-1/2" (38.1)	4.1 (6.10)	U	1189	763	532	392	301	239	195	162	137	118	102	90	79	U - Uniform Load (#/SF) C - Concentrated Load D - Deflection (inches)		
		D	.07	.11	.15	.21	.27	.35	.43	.52	.63	.74	.87	1.00	1.15			
		C	694	556	465	400	352	314	284	260	240	223	208	196	185			
		D	.05	.08	.12	.17	.22	.28	.34	.42	.50	.59	.69	.80	.92			
ALUMINUM TYPE 5052-H32 12 GAUGE .080"																		
2" (50.8)	1.15 (1.71)	U	993	636	441	324	248	196	159	131	110	93	80	Spans in blue shaded area produce deflection of 1/4" or less under uniform load of 100 lbs/SF.				
		D	.08	.13	.18	.25	.33	.42	.52	.63	.74	.86	1.00					
		C	579	463	386	331	290	257	232	211	192	177	165					
		D	.06	.10	.15	.20	.27	.34	.42	.51	.59	.69	.80					

LOAD TABLE: 4-DIAMOND PLANK (9-1/2" 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																						
1-1/2" (38.1)	3.6 (5.36)	U	663	426	296	219	168	134	109	90	77	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	.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	U - Uniform Load (#/SF) C - Concentrated Load D - Deflection (inches)						
		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	200			
		D	.04	.06	.09	.12	.16	.21	.26	.31	.37	.44	.52	.60	.68	.88	1.10	1.35	1.63			
STEEL 16 GAUGE																						
2" (50.8)	3.2 (4.76)	U	720	462	322	238	183	145	118	98	83	71	59	Spans in blue shaded area produce deflection of 1/4" or less under uniform load of 100 lbs/SF.								
		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									
ALUMINUM TYPE 5052-H32 12 GAUGE .080"																						
1-1/2" (38.1)	1.28 (1.90)	U	499	319	222	163	124	98	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.													
		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										

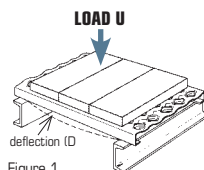


Figure 1

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 Figs. 1 or 2 and 3

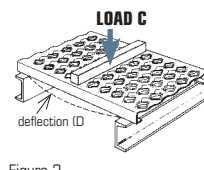


Figure 2

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.

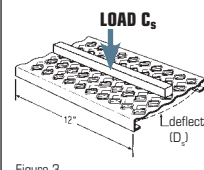


Figure 3

CONCENTRATED LOAD (C_s)
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 (D_s) in all walkways/planks: Deflection (in) corresponding to maximum concentrated strut load (C_s), 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 (11-3/4" 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 14 GAUGE																				
1-1/2" (38.1)	4.2 (6.25)	U	536	344	240	177	136	108	88	74	62	10' and 12' lengths available for most sizes. Galvanized available in 14 Gauge and 12 Gauge.								
		D	.06	.10	.14	.20	.26	.33	.41	.50	.60									
		C	525	422	353	304	267	239	216	198	183									
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				
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	U - Uniform Load (lbs/SF) C - Concentrated Load D - Deflection (inches)				
		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					
2" (50.8)	6.2 (9.23)	U	1131	725	505	372	286	227	185	154	130	111	97	85	75	60	50	42		
		D	.05	.08	.12	.17	.22	.28	.35	.43	.51	.60	.71	.82	.95					
		C	1107	888	742	638	561	501	453	414	382	355	332	312	295	266	243	224		
2-1/2" (63.5)	6.6 (9.82)	U	1691	1083	753	554	425	337	273	226	181	141	123	109	87	71	59	50	42	
		D	.04	.06	.09	.13	.17	.21	.26	.32	.38	.45	.52	.60	.68	.87	1.09	1.33	1.60	
		C	1115	1115	1106	950	833	742	669	610	561	519	484	453	426	382	347	319	295	
		D	.02	.04	.07	.10	.13	.17	.21	.25	.30	.36	.41	.48	.55	.70	.87	1.06	1.28	
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	Spans in blue shaded area produce deflection of 1/4" or less under Uniform Load of 100 lbs/SF.						
		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							
ALUMINUM TYPE 5052-H32 12 GAUGE .080"																				
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													
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										

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

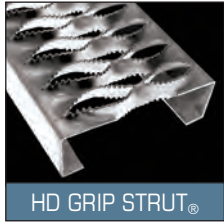
DEPTH (mm)	#/LF (kg/m)	CLEAR SPAN																		
		2'	2'6"	3'	3'6"	4'	4'6"	5'	5'6"	6'	6'6"	7'	7'6"	8'	9'	10'	11'	12'		
STEEL 14 GAUGE																				
2" (50.8)	6.3 (9.4)	U	540	358	250	184	142	113	92	76	65	55	48	42	Spans in shaded area produce deflection of 1/4" or less under Uniform Load of 100 lbs/SF.					
		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/SF) C - Concentrated Load D - Deflection (inches)						
		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	319	282	253	229	210	194	181	169	160	151					
		D	.17	.15	.14	.15	.16	.17	.19	.22	.25	.28	.32	.36	.40					
ALUMINUM TYPE 5052-H32 12 GAUGE .080"																				
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										

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/SF.				
		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	.26	.27	.29	.30	.32	.36	.41		

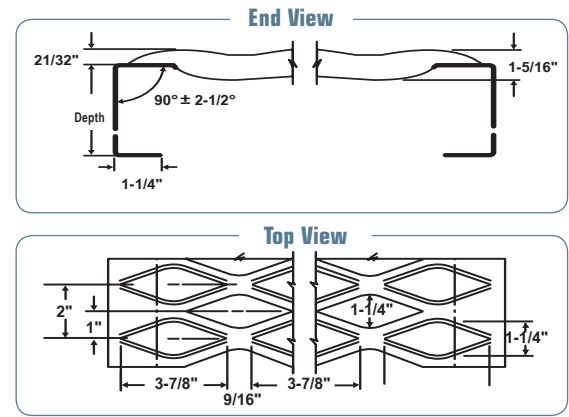
HEAVY-DUTY GRIP STRUT® PLANK

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" (Stock), 13-3/4", 23-1/4", 36"
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)	7.4 (11.0)	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	376	344	
		D	.04	.06	.09	.12	.15	.19	.24	.28	.33	.38	.44	49	55	68	81	96	116	

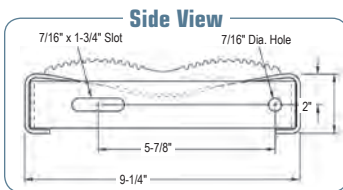
LOAD TABLE: 3-DIAMOND HD PLANK (13-3/4" WIDTH)

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)	10.0 (14.9)	U	2733	1794	1214	893	683	539	437	361	304	259	223	194	170	136	110	92	76	
		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	.04	.06	.08	.11	.14	.18	.22	.25	.29	.34	.39	.44	50	63	76	91	1.06	

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 Height: 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)		#/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)	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/SF) C - Concentrated Load D - Deflection (inches)

HEAVY-DUTY GRIP STRUT® WALKWAY

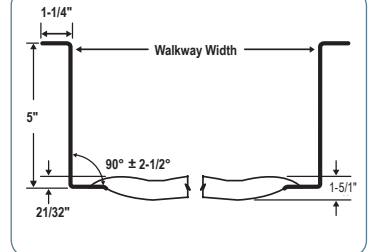


McNICHOLS Heavy-Duty GRIP STRUT® Walkway meets OSHA toeboard requirements for elevated structures with upturned, 5"-high integral side channels (referred to as height). Heavy-Duty GRIP STRUT® Walkway is commonly used in process plants, refineries, conveyor walkways and grain elevators.

PRODUCT OPTIONS

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

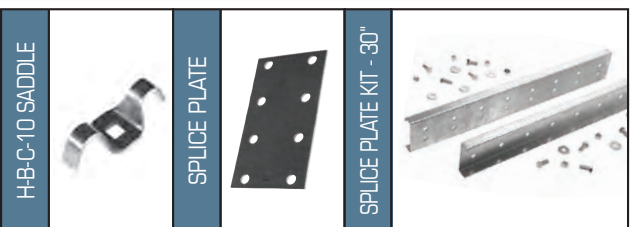
End View



LOAD TABLE: 5-DIAMOND HD WALKWAY 10 GA (24" WIDTH)

HT. (mm)		#/LF (kg/m)	CLEAR SPAN																	
			4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	18'	20'	22'	24'	
STEEL 10 GAUGE																				
5" (127)	17.5 (26.0)	U	937	600	417	306	234	185	150	124	104	89	77	67	59	46	38	31	26	
		D	.38	.39	.42	.38	.38	.38	.39	.47	.56	.66	.77	.88	1.01	1.26	1.59	1.89	2.25	
		C	3750	3000	2500	2143	1875	1667	1500	1364	1250	1153	1071	1000	938	833	750	682	625	
		D	.30	.31	.34	.31	.30	.30	.31	.36	.45	.53	.61	.70	.80	1.01	1.25	1.51	1.80	
5" (127)	19.9 (29.6)	U	916	586	407	299	229	182	146	121	102	87	75	65	57	45	36	30	25	
		D	.37	.43	.40	.40	.46	.42	.41	.49	.57	.66	.75	.86	1.09	1.33	1.62	1.92		
		C	4584	3666	3056	2619	2291	2037	1834	1667	1528	1410	1309	1225	1146	1019	916	834	753	
		D	.30	.34	.32	.32	.37	.34	.33	.33	.39	.45	.53	.61	.69	.87	1.08	1.30	1.55	

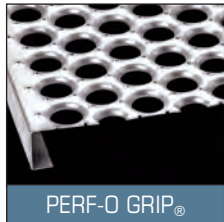
CLIPS & FASTENERS



A complete list of clips and fasteners is available on page 50.

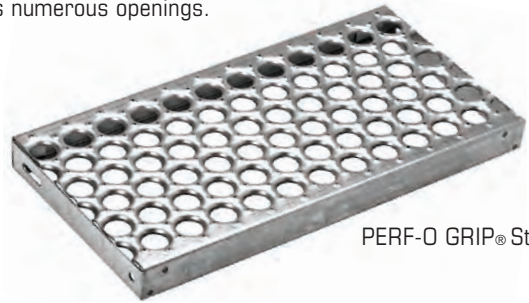
PERF-O GRIP® PLANK & WALKWAY

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!

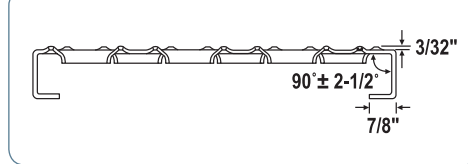


PERF-O GRIP® Stair Treads
page 49

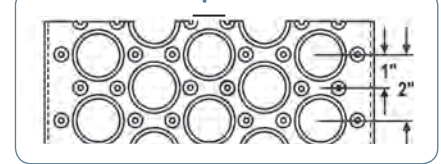
PRODUCT OPTIONS

Material: Plain Steel, Galvanized Steel, Aluminum
Gauge: 13, 11, .125 (Aluminum)
Width: 5", 7", 10", 12", 18"
Depth: 1-1/2", 2"
Length: 120", 144"

End View



Top View



LOAD TABLE: 2-HOLE PLANK (5" WIDTH)

DEPTH	#/LF	CLEAR SPAN															
		2'	26"	3'	36"	4'	46"	5'	56"	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'	26"	3'	36"	4'	46"	5'	56"	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'	26"	3'	36"	4'	46"	5'	56"	6'	7'	8'	9'	10'	11'	12'	
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
ALUMINUM TYPE 5052-H32 .125 GAUGE																	
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



McNICHOLS PERF-O GRIP® Planks - Slip-Resistant Flooring

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

DEPTH	#/LF	CLEAR SPAN															
		2	26"	3'	36"	4'	46"	5'	56"	6'	7'	8'	9'	10'	11'	12'	
STEEL 10 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
STEEL 13 GAUGE																	
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	.98
ALUMINUM TYPE 5052-H32 .125 GAUGE																	
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

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

DEPTH	#/LF	CLEAR SPAN															
		2'	26"	3'	36"	4'	46"	5'	56"	6'	7'	8'	9'	10'	11'	12'	
STEEL 13 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
ALUMINUM TYPE 5052-H32 .125 GAUGE																	
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

CLIPS & FASTENERS

BOLT SEAT	MID SUPPORT CLIP	SPURGE PLATE
A complete list of clips and fasteners is available on page 50.		

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.

PRODUCT OPTIONS

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

CLIPS & FASTENERS

BOLT SEAT



MID SUPPORT CLIP



SPICE PLATE



A complete list of clips and fasteners is available on page 50.

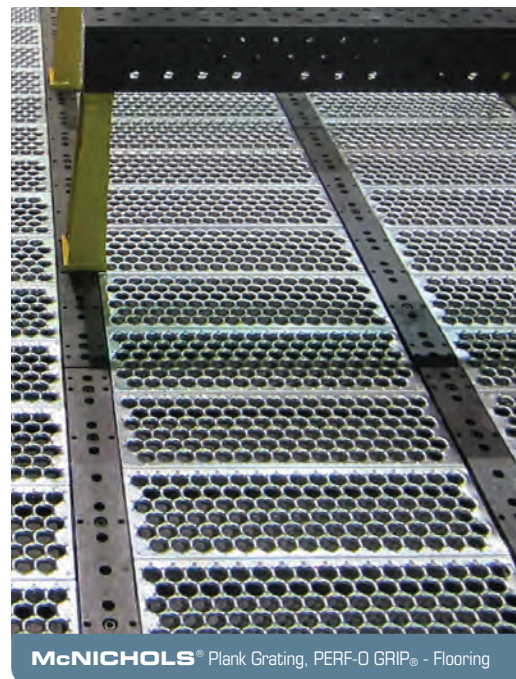
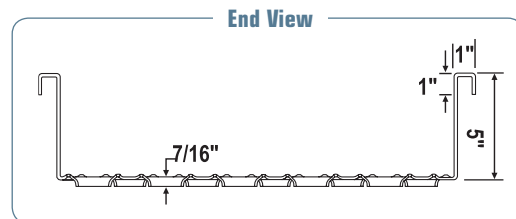
LOAD TABLE: 13-HOLE WALKWAY (24" WIDTH, 5" HEIGHT)

HT.	#/LF	CLEAR SPAN															
		2'	26"	3'	36"	4'	46"	5'	56"	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, 5" HEIGHT)

HT.	#/LF	CLEAR SPAN															
		2'	26"	3'	36"	4'	46"	5'	56"	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	.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**.



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: Galvanized Steel, Aluminum
 Gauge: 13, 11, .125 (Aluminum)
 Width: 7", 10", 12"
 Depth: 1-1/2", 2"
 Length: 120", 144"



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

LOAD TABLE: 7" PLANK (6-7/8" WIDTH)

DEPTH	#/LF	CLEAR SPAN														
		2'	26"	3'	36"	4'	46"	5'	56"	6'	66"	7'	76"	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: 10" PLANK (9-7/8" WIDTH)

DEPTH	#/LF	CLEAR SPAN													
		2'	26"	3'	36"	4'	46"	5'	56"	6'	66"	7'	76"	8'	
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
ALUMINUM TYPE 5052-H32 .125 GAUGE															
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

LOAD TABLE: 12" PLANK (11-7/8" WIDTH)

DEPTH	#/LF	CLEAR SPAN													
		2'	26"	3'	36"	4'	46"	5'	56"	6'	66"	7'	76"	8'	
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															
1.5"	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
ALUMINUM TYPE 5052-H32 .125 GAUGE															
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

GRATE-LOCK® PLANK

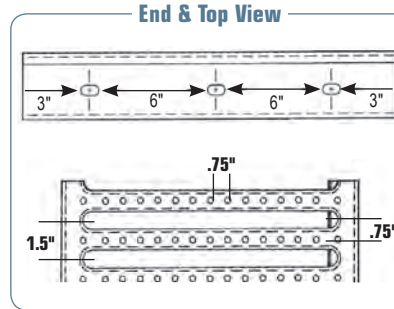


McNICHOLS GRATE-LOCK® Plank Grating is an easy-to-install system of interlocking grating planks, treads and accessories. GRATE-LOCK® provides safe, sturdy footing for mezzanine floors, platforms, walkways and other applications where non-slip performance is required. Increased load performance can be 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" Ht),
 144" (1-1/2" Ht), 288" (3" Ht)
Flange: Male to Male, Female to Female, Female to Male

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



LOAD TABLE: GRATE-LOCK® PLANK

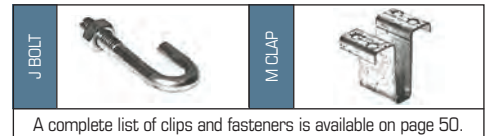
GAUGE	WIDTH	% O/A	#/LF		1-1/2" CHANNEL DEPTH CLEAR SPAN (LF)																
					2'	3'	36"	4'	46"	5'	56"	6'	66"	7'	76"	8'	86"	9'	10'	11'	12'
18	12"	45%	2.9	U	443	196	144	110	87	70	58	49	41	36	31	27	24	21	17	14	12
				D	.10	.14	.18	.22	.27	.33	.40	.48	.56	.65	.74	.84	.95	1.06	1.31	1.59	1.89
	9"	43%	2.3	U	591	263	193	147	116	94	78	65	56	48	42	37	32	29	23	19	16
				C	440	293	251	220	195	176	160	146	135	125	117	110	103	97	88	80	73
14	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
	9"	38%	3.5	U	891	396	291	222	176	142	117	99	84	72	63	55	49	44	35	29	24
				C	663	442	379	331	295	265	241	221	204	189	177	165	156	147	132	120	110
18	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
	9"	43%	3.0	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
14	12"	40%	5.2	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
	9"	38%	4.4	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
18	12"	45%	3.5	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
	9"	43%	3.0	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
14	12"	40%	5.2	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
	9"	38%	4.4	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

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.

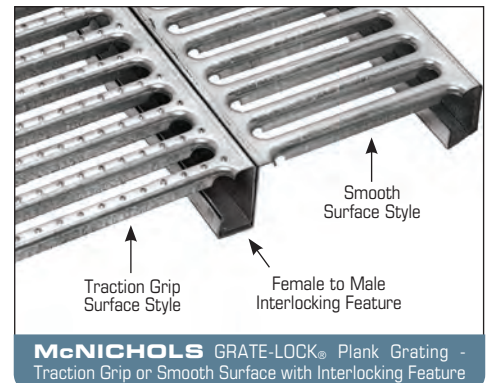
ALLOWABLE LOADS AND DEFLECTIONS: U = Uniform Load (lb./ft.²) C = Concentrated Load (lb.) D = Deflection (inches)

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

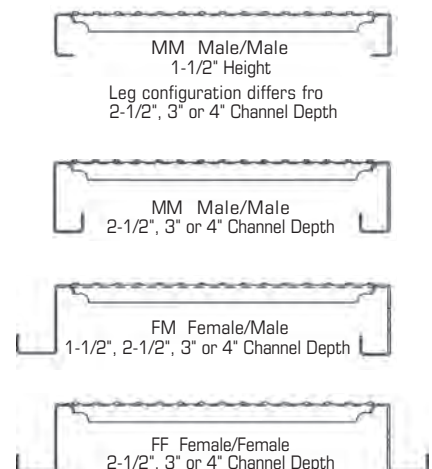


A complete list of clips and fasteners is available on page 50.



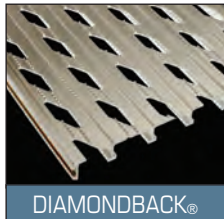
McNICHOLS GRATE-LOCK® Plank Grating - Traction Grip or Smooth Surface with Interlocking Feature

Flange End View



DIAMONDBACK® DECKPLATE

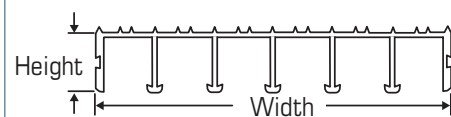
McNICHOLS DIAMONDBACK® Deckplate offers excellent strength and stability for walkways, platforms, mezzanines, catwalks and other unsupported structures. The ventilated design prevents the build-up of debris like dirt, grease and snow. When slip resistance is critical, our serrated vented plank is the answer!



DIAMONDBACK®

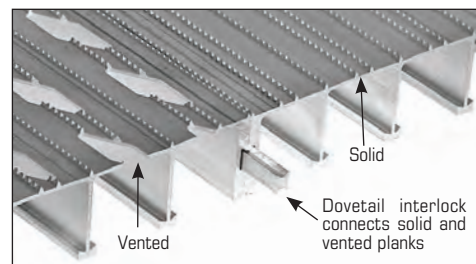
McNICHOLS DIAMONDBACK® Deckplate Planks are made using an aluminum extrusion process. The surface of the plank is vented with angled diamond-shaped openings along with lines of raised serrations running parallel to the plank length.

End View



PRODUCT OPTIONS

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



McNICHOLS DIAMONDBACK® Deckplate Plank - Solid or Serrated Surface, Interlocking Feature

LOAD TABLE: DIAMONDBACK® DECKPLATE (ALUMINUM)

HEIGHT	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 - # per sq. ft. C - Concentrated Load - # per sq. ft. of grating width D - Deflection (inches)					
		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						
		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 pounds per square foot.

HEAVY-DUTY EXTRUDED PLANK

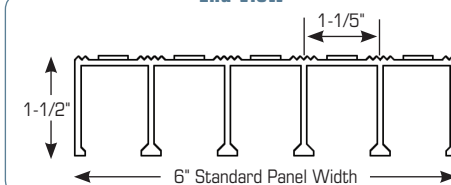


An alternative to Bar Grating, **McNICHOLS**® Heavy-Duty Extruded Plank is made using an extrusion process that yields a structurally sound and cosmetically attractive product. The interconnecting webs offer a flush top walking surface. The surface on standard Heavy-Duty Plank is vented with square or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

PRODUCT OPTIONS

Material: Aluminum
 Width: 6"
 Height: 3/4", 1", 1-1/2", 2"
 Length: 240"

End View



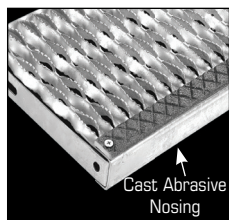
McNICHOLS® Heavy-Duty Plank - Drain Cover

LOAD TABLE: ALUMINUM TYPE 6063-T6 PLANK (6" WIDTH)

HT.	#/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 - # per sq. ft. C - Concentrated Load - # per sq. ft. width at mid span D - Deflection (inches)					
			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	

PLANK GRATING STAIR TREADS

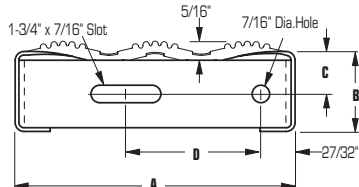
McNICHOLS® Plank Grating Stair Treads are one-piece construction from formed and punched sheet metal. Most Plank Grating Treads are lightweight and offer significantly higher slip resistance than Bar Grating Treads. Plank Treads have a variety of surface openings that have diamond, slotted or round shapes.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



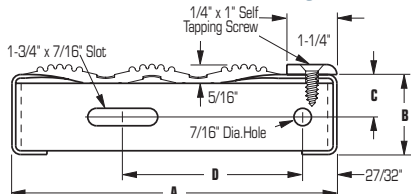
GRIP STRUT® STAIR TREADS

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"	1-1/2"	3/4"	2-5/8"				
(2-Dia.)	2"	1"	2-5/8"				
7"	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"	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"	1-1/2"	3/4"	8-1/8"				
(5-Dia.)	2"	1"	8-1/8"				

Above data for Steel, Aluminum 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
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"	
ALUM. TYPE 5052-H32 .080" GA			
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"	
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:	Plain Steel, Galvanized Steel, Aluminum, Stainless Steel
Gauge:	16 (Stainless), 14, 12, .080 (Aluminum)
Width:	4-3/4" to 11-3/4"
Depth:	1-1/2", 2"
Length/Span:	Up to 48" Steel; up to 36" Alum. or SS

LOAD TABLE: GRIP STRUT® TREADS (STEEL)

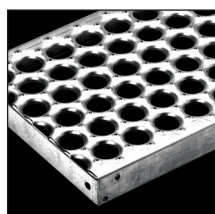
		2-DIAMOND		3-DIAMOND		4-DIAMOND		5-DIAMOND	
STEEL GAUGE		14		14		14		14	
SPAN	DPT.	U	C	U	C	U	C	U	C
20"	1-1/2"	1191	472	761	443	549	435	434	425
	2"	1978	783	1262	737	911	604	721	573
26"	1-1/2"	764	378	488	356	355	349	278	342
	2"	1268	611	810	590	584	578	463	566
30"	1-1/2"	532	315	340	300	245	300	194	300
	2"	882	524	563	492	407	483	322	473
40" *	2"	498	394	318	372	230	364	182	356

LOAD TABLE: GRIP STRUT® TREADS (ALUMINUM & STAINLESS STEEL)

		2-DIAMOND		3-DIAMOND		4-DIAMOND		5-DIAMOND	
MATL		ALUM.		ALUM.		ALUM.	STAINLESS	ALUM.	STAINLESS
GAUGE		.080"		.080"		.080"	304	.080"	304
SPAN	DPT.	U	C	U	C	U	C	U	C
20"	2"	1328	526	862	503	607	481	610	483
26"	2"	850	420	551	402	388	392	390	387
30"	2"	590	350	383	335	270	327	271	323
40"	2"	332	263	215	252	152	245	152	244

* 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:	Plain Steel, Galvanized Steel, Aluminum
Gauge:	13
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:	Galvanized Steel, Aluminum
Gauge:	13, 11, .125 (Aluminum)
Width:	7", 10", 12"
Depth:	1-1/2", 2"
Length/Span:	24", 30", 36", 48"

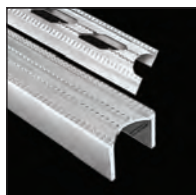
LADDER RUNGS

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 indoors and outside.



TRACTION TREAD™ RUNGS

McNICHOLS TRACTION TREAD™ Ladder Rungs are available in Plain Steel, Galvanized Steel, Aluminum or Stainless Steel. They are available in 1.25" to 2.25" widths, 48.75" or 60" lengths, and range from 1.125" to 1.50" in height. The Ladder Rungs come in 2-, 3- or 4-button rows.



DIAMONDBACK® RUNGS

McNICHOLS DIAMONDBACK® Ladder Rungs are available in .109" Aluminum with a solid or vented surface. The Rungs are 1.39" high x 1.75" wide and available in 144" lengths or cut-to-size. Radius end cut available by special order. Solid serrated surface 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 Plain Steel or Galvanized and are 1.125" high. Standard length is 120" with a 2.50" width. Diamonds can run the opposite direction by special order.



GRIP TIGHT® RUNG COVERS

McNICHOLS GRIP TIGHT® Rung Covers are constructed with slip-resistant Aluminum Oxide Grit over 16 Gauge Pre-galvanized metal. Where open area is not a concern, the Covers are a great option. These rungs are stocked in .75" or 1" heights, in 120" lengths or can be cut-to-size.

GRATING CLIPS & FASTENERS

BAR	TYPE CB U-shaped saddle clip placed over two bearing bars, fastens to support Material: Galvanized, Aluminum, Stainless Steel Product: Bar Grating (Welded, Press-Locked, Swage-Locked) Fit: 1-3/16" bearing bar height (TYPE CA for 15/16" bearing bar) Hardware: Not included	TYPE GFS Cast malleable iron body, bracket with one offset wing, fastens to support Material: Galvanized body, Stainless Steel bracket Product: Bar Grating Fit: Fits spacing between bars from 5/8" to 1-3/8"; accommodates up to 1-3/4" grating depth Hardware: Included	TYPE GG Hold-down clip attaches grating to structural shape in horizontal plane Material: Galvanized, Stainless Steel Product: Bar Grating Fit: 7/8" to 1" spacing between bearing bars Hardware: Integral with 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: Not Included	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: Included	TYPE SSGC Hold-down clip fastens to horizontal flange on structural shape Material: Galvanized, Stainless Steel Product: Bar Grating (Press-Locked - Close Mesh) Fit: 3/8" spacing between bearing bars Hardware: Integral with clip
FIBERGLASS	TYPE F Panel clip joins panels together at adjacent bars Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2", 2" grid height Hardware: Included	TYPE Z Hold-down clip secures panel to support frame Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2" grid height Hardware: Not Included	TYPE J Hold-down clip secures panel to support frame Material: Stainless Steel Product: Molded Grating Fit: 1", 1-1/2" grid height Hardware: Included
	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: Included	TYPE MI/MT Hold-down 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: Included	TYPE RI/RT Hold-down clip slid 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: Included
PLANK	DIAMOND ANCHOR Anchor device fits in opening, fastens to support Material: Galvanized, Stainless Steel Product: GRIP STRUT® Fit: All sizes Hardware: Not included (square hole will receive 5/16" carriage bolt)	HB-C-10 SADDLE Anchor device slid into opening, fastens to support Material: Stainless Steel, Galvanized Product: Heavy Duty GRIP STRUT® Fit: All sizes Hardware: Not included (square hole will receive 3/8" square shank carriage bolt)	ACA Anchor and clamp assembly, hold planks together, clamps to support Material: Galvanized Product: GRIP STRUT® Fit: All sizes Hardware: Integral with assembly
	J BOLT Fastener holds grating channel to support Material: Galvanized Product: GRATE-LOCK® Fit: All sizes Hardware: Integral with fastener	M CLAMP Hold-down clamp slid into grating slot, fastens to support Material: Galvanized Product: GRATE-LOCK® Fit: All sizes Hardware: Not included	BOLT SEAT Fastener slid into round opening, fastens to support Material: Galvanized Product: PERF-O GRIP® Fit: All sizes Hardware: Not included (round hole will receive 3/8" carriage bolt)
	MID SUPPORT CLIP Clip used at mid-span, fastening plank side channels together to improve loading Material: Galvanized Product: GRIP-STRUT®, PERF-O GRIP®, TRACTION TREAD™ Fit: All sizes Hardware: Included (kit orders only)	SPLICE PLATE Fastener joins continuous planks in a run over supports Material: Galvanized Product: GRIP-STRUT®, PERF-O GRIP®, TRACTION TREAD™ Fit: Connects walkway ends together Hardware: Included (kit orders only)	McNICHOLS carries more Clips and Fasteners than shown. Our full stock list is available at mcnichols.com !

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 treads suit a variety of stairway applications. Treads are available from stock in materials such as Plain Steel, Plain Steel (Powder Coated Black), Galvanized Steel, Aluminum, Stainless Steel and Fiberglass. Bar styles are available with several Nosing options (shown below).

BAR GRATING - STAIR TREADS



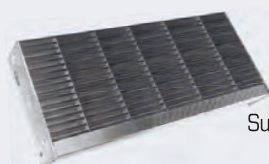
GW Series
Treads, Smooth and
Serrated Surface
Checkered Plate Nosing (Plain,
Galvanized or Stainless Steel)



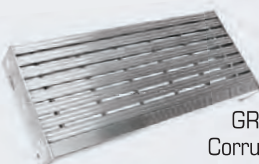
GAL Series
Tread, Smooth or
Serrated Surface
Corrugated Angle Nosing
(Aluminum Only)



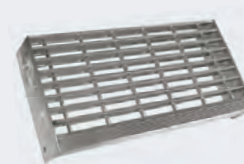
GHB Series
Tread, Smooth or
Serrated Surface
Checkered Plate Nosing
(Aluminum)



GCM Series
(Close Mesh)
Tread, Smooth
Surface, Corrugated
Angle Nosing

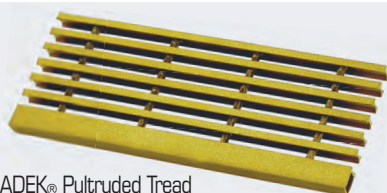


SAFE-T-GRID®
Aluminum T-Bar
Tread, Grooved or
GRIP TIGHT® Surface,
Corrugated Angle Nosing



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

FIBERGLASS GRATING - STAIR TREADS



DURADEK® Pultruded Tread
For more information about
McNICHOLS DURADEK®
Fiberglass Grating, please visit page 37.

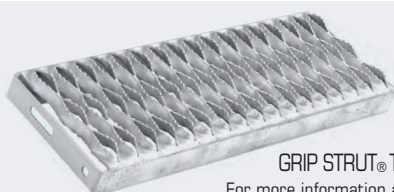


Rectangular Molded Tread
For more information about
McNICHOLS Rectangular
Molded, please visit page 35.

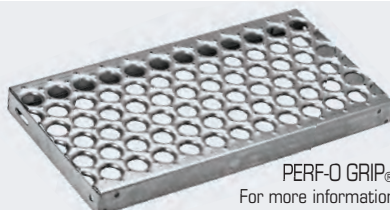


Stair Tread Cover/Panel
For more information about
McNICHOLS Molded Tread
Covers, please visit page 35.

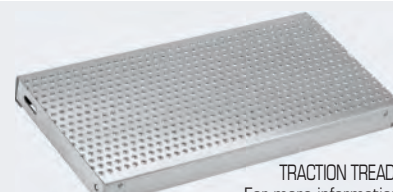
PLANK GRATING - STAIR TREADS



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.

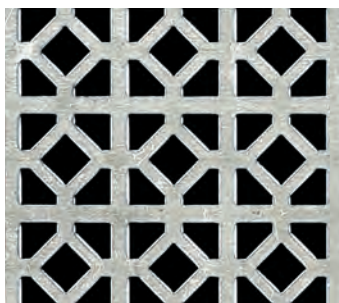


HD Aluminum
Extruded Tread
For more information about
McNICHOLS® HD Aluminum Extruded
Plank Grating, please visit page 48.

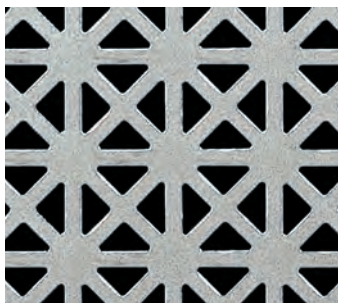
McNICHOLS® Metals
Service Centers are equipped
with a variety of specialized
processing equipment so your
job can be cut-to-size quickly
and accurately!

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 expert experience and are ready and Inspired to Serve® you!



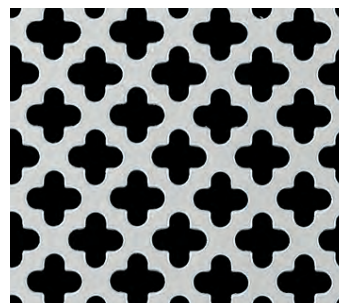
Designer Perforated, WINDSOR, Aluminum Type 3003-H14, .040" Thick, 35% O/A



Designer Perforated, GRECIAN, Aluminum Type 3003-H14, .032" Thick, 35% O/A



Designer Perforated, MAJESTIC, Plain Steel Cold Rolled, Mill Finish, 20 Gauge, 1" Pattern, 40% O/A



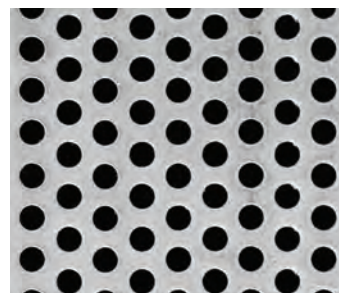
Designer Perforated, FULL CLOVERLEAF, Aluminum Type 3003-H14, .032" Thick, 51% O/A

We welcome you to explore the pages of the **McNICHOLS®** Designer Metals Catalog and **McNICHOLS®** Designer Book. These comprehensive resources will guide you through Designer Metal patterns that will make your project unforgettable. Digital versions of these 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.

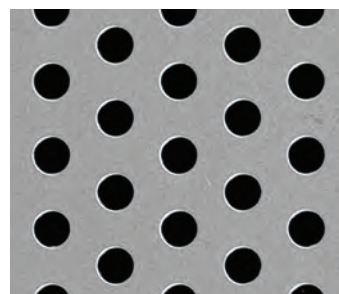


Photography on this page: © Charles Davis Smith / Brinkley Sargent

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 Type 3003-H14, 3/16" Round on 5/16" Staggered Centers, .125" Thick, 32% O/A



Perforated, Aluminum Type 3003-H14, 1/4" Round on 1/2" Staggered Centers, .250" Thick, 23% O/A

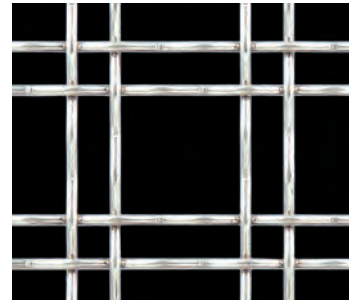
ELEGANT, VERSATILE, AVAILABLE ... UNFORGETTABLE.

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.

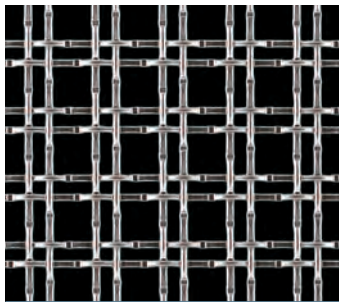


McNICHOLS® Designer Wire Mesh, TECHNA™ 3150, Stainless Steel Type 304, 74% O/A, railing infill panels transform this stairway at a Walsh University dormitory.

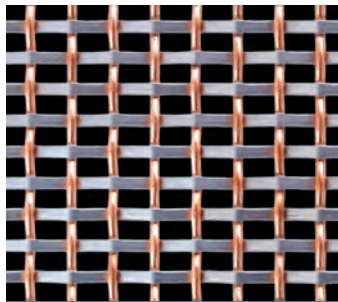
McNICHOLS® DESIGNER METALS



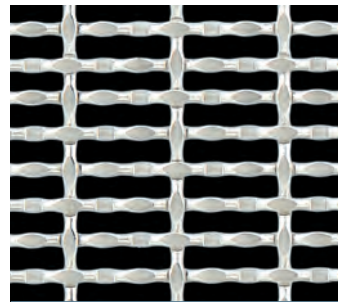
Designer Wire Mesh, TECHNA™ 3150, Stainless Steel Type 304, 74% O/A



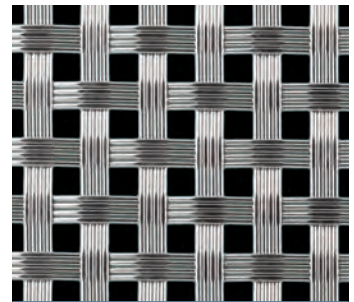
Designer Wire Mesh, TALICA™ 8146, Stainless Steel Type 304, 61% O/A



Designer Wire Mesh, SHIRE™ 8148, Copper/Stainless Steel Type 304, 41% O/A

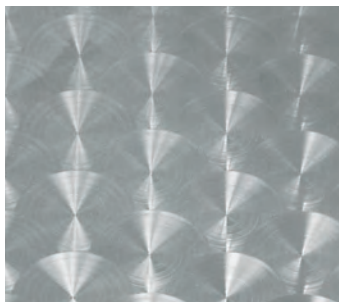


Designer Wire Mesh, CHATEAU™ 3115, Stainless Steel Type 304, 56% O/A



Designer Wire Mesh, TALICA™ 8158, Stainless Steel Type 304, 34% O/A

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