McNICHOLS CO.



FIBERGLASS CRATING



Full Panels

Molded

Pultruded

Fiberglass Fittings

Stair Treads

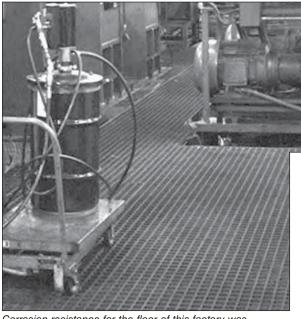
Structural Shapes & Plate

Cut Lengths

Ladder Systems

Platform & Handrail Systems

Trench Drain System



Corrosion resistance for the floor of this factory was provided by Square Molded Fiberglass Grating.

205-581-5200

716-688-5005

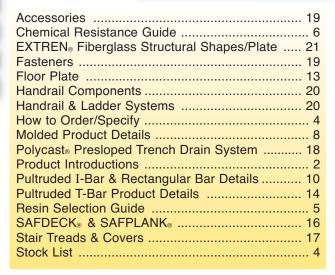






Table of Contents

Square Molded Fiberglass Grating was used to make a cover to keep debris out of this stone well.

Local Service Center	Phone	Fax	Location							
ATLANTA	770-499-1441	770-499-9559	1980 Shiloh Road NW Bldg 6 #300, Kennesaw, GA 30144-642							
BALTIMORE	301-362-0200	301-362-0448	9070 Junction Drive #M, Annapolis Junction, MD 20701-1141							
BOSTON	978-663-5500	978-663-5508	33 High Street, North Billerica, MA 01862-2415							
CHARLOTTE	704-921-2225	704-921-2228	2307 Distribution Center Drive #F, Charlotte, NC 28269-4232							
CHICAGO	847-635-5100	847-635-1115	251 Wille Road #C, Des Plaines, IL 60018-1861							
CINCINNATI	513-731-8811	513-731-8812	3470 E. Kemper Road, Cincinnati, OH 45241-2007							
CLEVELAND	216-587-4000	216-587-4004	4889 NEO Parkway, Cleveland, OH 44128-3195							
DALLAS	214-349-3150	214-553-8529	3540 W. Miller Road, #240, Garland, TX 75041-6014							
HOUSTON	281-443-8400	281-209-1999	16405 Air Center Boulevard #100, Houston, TX 77032-5133							
KANSAS CITY New!	913-310-0599	913-310-0119	15341 W. 100th Terrace, Lenexa, KS 66219-1294 New							
LOS ANGELES	562-921-3344	562-921-1015	14108 Arbor Place, Cerritos, CA 90703-2404							
MINNEAPOLIS	651-633-8822	651-633-8818	22 Fifth Avenue NW, New Brighton, MN 55112-3237							
NJ/NYC Area	732-846-8333	732-846-5555	2 Home News Row, New Brunswick, NJ 08901-3602							
PHOENIX	602-235-9733	602-235-9734	5525 W. Latham Street, #7, Phoenix, AZ 85043-1601							
SAN FRANCISCO	510-887-7778	510-887-7779	19226 Cabot Boulevard, Hayward, CA 94545-1143							
SEATTLE	253-939-4747	253-939-7809	1221-A 29th Street NW, Auburn, WA 98001-2431							
TAMPA	813-243-1800	813-243-1888	9401 Corporate Lake Drive, Tampa, FL 33634-2359							
ADMINISTRATION HEADQUARTERS	813-282-3828	813-287-1066	PO Box 30300, Tampa, FL 33630-3300 2502 N. Rocky Point Drive (Ste. 950, mail only), Tampa, FL 33607-1447							
Field Sales Office	Phone	Fax	Field Sales Office Phone Fax							

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HARTFORD

MILWAUKEE

WORLDWIDE SERVICE

United States . Caribbean 1-800-237-3820

International

1-813-243-1800

International Fax

1-813-243-1888

McNICHOLS CANADA

245 King George Road, Suite 122 Brantford, ON N3R 7N7 Canada

1-800-237-3820

905-521-4445

905-521-4447

McNICHOLS MEXICO

We speak Spanish! ¡Hablamos español!

01-800-822-3005

001-800-237-3820

E-mail: ventas@mcnicholsmexico.com

E-mail: sales@mcnichols.com



Charge your order







BIRMINGHAM

BUFFALO

860-953-3636

414-570-1882

860-953-3535

414-570-1881

205-581-5205

716-688-5532

Fiberglass Grating Molded

Molded Design Considerations



Molded Rectangular series—non grit shown.

Construction...

McNICHOLS® Molded Fiberglass

Grating is a strong mesh grating panel which allows efficient on-site cutting to minimize grating waste. It is molded in one piece with a plain concave skid-resistant walking surface. Grit surfaces are also available upon request.

McNICHOLS® Molded Grating is the chemical resistant flooring choice for many industrial applications. Load bearing bars in both directions allow for use without continuous side support.



Square Molded Fiberglass Grating was used to make walkways around these chemical baths.

Corrosion Resistant

Fire Retardant

Low in Maintenance

Lightweight

Low in Conductivity

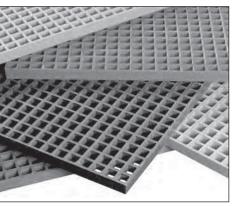
Bidirectional Load Bearing

Cost Effective

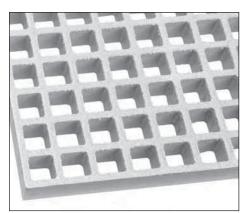
Impact Resistant

Strength...

Molded Fiberglass Grating is significantly lighter in weight than metal gratings. The high resin content of 65% provides long maintenance free performance. A higher safety factor is achieved by designing in a higher glass content at the bottom of the grating for greater tensile strength.



Molded Square series—non grit shown.

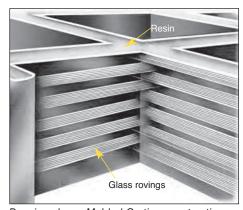


Molded Square series with grit shown.

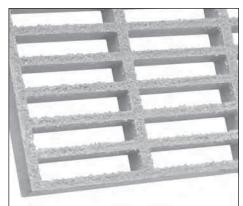
McNICHOLS® Molded Grating

is composed of fiberglass rovings combined with a choice of resin systems. Special UV inhibitor available.

Resin guide on p. 5 for additional assistance in making your product selection.



Drawing shows Molded Grating construction.



Molded Rectangular series with grit shown.

Industries Served

Aerospace Chemical Power Plants Marine

Water & Wastewater **Pipeline** Meat Processing

We are ISO 9001:2000 Certified.

Refining

Plating Food/Beverage Airframe Manufacturing Electronic Manufacturing Pulp & Paper Fluid Storage **Cooling Towers** Mass Transit

Automotive Metal Finishing Mining Industrial Equipment

Pultruded Design Considerations

Fiberglass Grating Pultruded

Low Maintenance

Fire Retardant

Corrosion Resistant

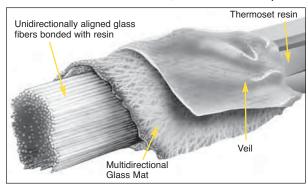
Lightweight

Construction...

McNICHOLS® Pultruded

Fiberglass Grating is a composite of fiberglass reinforcements (fibers and mat) and a thermosetting resin system, formed by the pultrusion manufacturing process which produces many of the outstanding characteristics of the product.

Pultruded Grating bearing bars use both longitudinal (glass roving) and multidirectional (glass mat) reinforcements and a synthetic surfacing veil to provide unequaled strength and



Non-Sparking

Structurally Strong

Low Thermal Conductivity

Rigid

corrosion resistance. The densely packed core of continuous glass rovings gives the bar strength and stiffness in the longitudinal direction while the continuous glass mat provides strength in the transverse direction and prevents chipping, cracking and lineal fracturing. The synthetic surfacing veil provides a 100% pure resin surface for added corrosion resistance and UV protection.

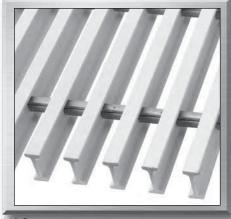
Strength...

Pultruded Grating products offer superior strength and stiffness. Since

glass is the key contributor for the structural performance, pultruded offers the highest strength to unit weight ratio.

Corrosion Resistance...

Pultruded Grating's corrosion resistance is superior to stainless steel, aluminum and galvanized gratings.



MS I-6015 shown without grit.

Fabrication Features...

Many plank sizes allow for greater use versatility with longer spans which may help reduce scrap loss.

Surface Texture...

Pultruded Grating may be ordered with or without an anti-skid grit surface. A variety of grit material and textures can be ordered.

Pultruded Grating should be the product of choice where strength and stiffness are paramount in structural applications where minimum deflection under high loads is required.

Resin guide on p. 5 for additional assistance in making your product selection.

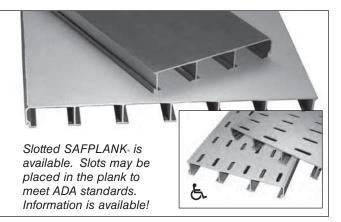
SAFPLANK® Fiberglass Plank System

Construction...

SAFPLANK® is a composite of fiberglass reinforcements (glass and mat) and a thermoset resin system. The planks are produced using the pultrusion process.

This high strength system of interlocking fiberglass planks forms a continuous solid surface

which may be used to replace wood, aluminum or steel planks in environments where corrosion or rotting creates costly maintenance problems or unsafe conditions. Typical applications include: Cooling Tower Decking, Odor Control Covers, Windwalls, Roofing Walkways, Cellular Wall Panels, and more.



Industries Served

Aerospace Chemical Power Plants Marine Water & Wastewater Pipeline Meat Processing

Refining

Plating
Food/Beverage
Airframe Manufacturing
Electronic Manufacturing

Pulp & Paper Fluid Storage Cooling Towers Mass Transit Automotive
Metal Finishing
Mining
Industrial Equipment



Order Guide and Stock List

NOTE: Stock items are not carried in all locations, and on-hand quantities are subject to change. Stock outages are possible.

HOW TO ORDER/SPECIFY

Simply call 1-800-237-3820, and we will be ready to help you with your needs. We can process your inquiry or order faster if you have the following information available when you call.

CONSIDER:

- 1. Application or use of product
- 2. Physical requirements
 - a. exposure to chemicals and/or extreme temperatures
 - b. fire retardant rating (resin chart p. 5)
 - c. loading requirements, span and support systems (please refer to load tables)

Cut

pieces may or

may

not

have

stubs.

PLEASE SPECIFY:

3. "McNICHOLS" Quality Fiberglass Grating"

4. <u>Type</u>:

a. Molded—rectangular or square pattern

-floor plate

b. Pultruded—I-Bar, T-Bar, or Rectangular Bar -floor plate

- 5. Resin: (refer to chart p. 5) Minimums may apply-please inquire
- 6. Quantity: number of panels, areas or treads—full size or cut pieces required
- 7. Height:
 - a. Molded—panel or plate height
 - b. Pultruded—bar height
- 8. Width: width of panel, plank, deck, plate or pieces as applicable
- 9. Length: length of panel, plank, deck, plate or pieces as applicable
- 10. Surface: plain or with grit
- 11. For I-, T-, or Rectangular Bar planks: indicate spacing between bar centers and cross bar centers. Indicate span.

For Rectangular/Square Molded panels: indicate span.

- 12. Special Fabrication: cut-outs, etc.
- 13. Fasteners: type and size (see p.19)

TO PLACE AN ORDER CALL:

FAX: See page 1 for nearest service center.

		FIBERGLASS PE	RODUCTS STOCK	LIST	
	Item	Height	Size	Resin	Color
		_	RUDED I-BAR		
	MS I-4010	1"	3' x 20'	SPF	Gray
	MS I-4015	1-1/2"	3' x 20'	SPF	Gray
	MS I-6010	1"	3' & 4' x 20'	SPF	Gray, Yellow
	MS I-6015	1-1/2"	3' & 4' x 20'	SPF	Gray, Yellow
	MS I-6015	1-1/2"	2', 4' & 5' x 20'	SVF	Gray
	MS I-6515	1-1/2" (8" CB)	3' x 20'	SPF	Yellow
			RUDED T-BAR		
	MS T-1210	1" 2"	Please inquire	SPF	Gray
	MS T-1720 MS T-1810	1"	Please inquire 3' x 20'	SVF SPF	Yellow White, Gray
	MS T-1810	1"	4' x 20'	SPF	Gray
	MS T-1810	1"	Please inquire	SPF	Gray
	MS T-3810	1" (12" CB)	3' x 4.5'	SPF	Gray
	MS T-5020	2"	3' x 20'	SPF	Yellow
		MOLDE	D SQUARE MESH		
	MS S-150	1-1/2"	4' x 12'	SFF	Gray, Green
	MS S-200	2"	4' x 12'	SFF	Green
	MS S-100	1"	3' x 10', 4' x 8', 4' x 12'	SGF	Gray, Green
	MS S-100	1" no grit	3' x 10', 4' x 8', 4' x 12'	SGF	Gray
	MS S-100	1"	4' x 12'	SGF	Yellow
	MS S-100	1" no grit	4' x 8' & 12'	SGF	Yellow
	MS S-150	1-1/2"	3' x 10', 4' x 12'	SGF	Gray, Yellow
	MS S-150	1-1/2" no grit	3' x 10', 4' x 12'	SGF	Gray, Yellow
	MS S-150	1-1/2"	4' x 12'	SGF	Green, Red
	MS S-200 MS S-150	2" 1-1/2"	4' x 12' 4' x 12'	SGF SVF	Gray
					Gray
	MS M-150	1-1/2" Mini Grid™	4' x 12' ECTANGULAR MESH	SGF	Green
	MO D 400	1" x 4"		SFF	0
	MS R-100 MS R-150	1-1/2" x 6"	12' x 3', 4' 4' x 12'	SFF	Green Green
	MS R-100	1-1/2 x 6 1" x 4"	10' x 3'	SGF	Yellow, Dk.Gray
	MS R-100	1" x 4" no grit	8' x 4'	SGF	Gray
	MS R-100	1" x 4" grit, no grit	8' x 4'	SPF	Green
			TREAD COVER	0	G. 5511
5	S-STCV9 Tread Cover	9" wide	12' Long		
S	-STCV10 Tread Cover	10" wide	12' Long	SGF	Gray w/yellow nosing
	0.01.01.000.00101		FIBERGLASS PLANK		
	OAEDIK OOO OLD		12" x 10' or 20' Long,		
	SAFPK 200 SLD	2"	24" x 20' or 24' Long	SPF	Gray
	SAFPK 200 PCH	2"	12" & 24" x 20' Long		
		TR	ENCH DRAIN		
	Trench Drain	1/:+ 4	20' Run	Polymer	
_		Kit 1			Crov
	Trench Drain	Kit 2	40' Run	Concrete	Gray
	Trench Drain	Kit 2 STRUCTURAL SHAPES/	PLATE/HANDRAIL COMPONE	ENTS	
Ad	Trench Drain dj. Sq. Connector Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-	PLATE/HANDRAIL COMPONE 1/2" x 1/4"	SPF	Beige
Ad	Trench Drain dj. Sq. Connector Angle Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1- 1-1/2" x 1-1/2" x 3/16", 1/4"	PLATE/HANDRAIL COMPONE 1/2" x 1/4" 20' Long	SPF SPF	Beige Gray
Ad	Trench Drain dj. Sq. Connector Angle Angle Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1- 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16"	PLATE/HANDRAIL COMPONE 1/2" x 1/4" 20' Long 20' Long	SPF SPF SPF	Beige Gray Gray
Ad	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1- 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 20' Long 20' Long	SPF SPF SPF SPF	Beige Gray Gray Gray, Olive
Ad	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 1- 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 20' Long 20' Long 20' Long 20' Long	SPF SPF SPF SPF SPF	Beige Gray Gray Gray, Olive Gray, Olive
Ad	Trench Drain Dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 20' Long 20' Long 20' Long 20' Long 20' Long	SPF SPF SPF SPF SPF SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive
Ad	Trench Drain dj. Sq. Connector Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8"	PLATE/HANDRAIL COMPONE 1/2" x 1/4" 20' Long	SPF SPF SPF SPF SPF SPF SPF SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray
Ad	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4"	PLATE/HANDRAIL COMPONE 1/2" x 1/4" 20' Long	SPF SPF SPF SPF SPF SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray
Ad	Trench Drain dj. Sq. Connector Angle	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray Gray, Olive Gray Gray, Olive
Ac	Trench Drain Dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Channel Channel Floor Plate	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8'	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Acc	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8'	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Ac	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x1/4" 6" x 1-5/8" x1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi	PLATE/HANDRAIL COMPONE 1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Ad	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi	PLATE/HANDRAIL COMPONE 1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Acc	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post Base	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" ' x .75"	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Acc	Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90' Corner Plug Sq. Post Base Sq. Post or Rail	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" cube wi 2" x 2" x 2" x 1.56"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" ' x .75" 20' Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Ac	Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post Base Sq. Post or Rail Split Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 6" x 4' x 4" x 156" 1.70"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" 20' Long 8" Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Ad	Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 2" cube wi 2" 2" x 2" x 156" 1.70" 1.68"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" 'x .75" 20' Long 8" Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Acc	Trench Drain dj. Sq. Connector Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. Post Base Sq. Post or Rail Square Plug Fibrebolt	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16" 2" x 2" x 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 2" cube wi 2" : 6" x 4" 2" x 2" x 1.56" 1.70" 1.68" 5/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 2" 'x .75" 20' Long 8" Long 4' Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Acc	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/8" 1/8" 2" cube wi 2" x 2" x .156" 1.70" 1.68" 5/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 4' x 8' x 2" ' x .75" 20' Long 8" Long 4' Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
Ac	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrenut Floor Plate	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-1/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2": 6" x 4' 2" x 2" x 1.156" 1.70" 1.68" 5/8" 1/8" no grit	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" ' x .75" 20' Long 8" Long 4' Long 8" Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Yellow Tellow Tell
Ad	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/8" 1/8" 2" cube wi 2" x 2" x .156" 1.70" 1.68" 5/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" 2' x .75" 20' Long 8" Long 6" Long 4' Long 8" 4' X 8' 4' X 8'	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Yellow Srown Brown Gray Gray Gray Gray
Ad	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrernut Floor Plate Floor Plate	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 2" cube wi 2" x 2" x 156" 1.70" 1.68" 5/8" 5/8" 1/8" no grit 1/4" no grit 4" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' X 8' 4' X 8' 1' X .75" 20' Long 8" Long 6" Long 4' Long 8" 4' X 8' 4' X 8' 20' Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Yellow Tellow Tell
	Trench Drain Angle Channel Channel Channel Floor Plate Floor Plate Sq. Post Gap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" x 2" x .156" 1.70" 1.68" 5/8" 1/8" no grit 1/4" no grit 1/4" & 3/8" dia.	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 1' x .75" 20' Long 8" Long 6" Long 4' x 8' 4' x 8' 4' x 8' 4' x 8' 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Round Rod Round Rod	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2": 6" x 4' 2" x 2" x .156" 1.70" 1.68" 5/8" 5/8" 1/8" no grit 1/4" no grit 1/4" no grit 1/4" & 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 1-1/2" x 3/8" dia. 1" x 1-1/4", or 1-1/2" dia.	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" ' x .75" 20' Long 8" Long 6" Long 4' Long 8" 4' x 8'	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Floor Sq. End Cap Sq. Post Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Square Plug Fibrebolt Fibrenut Floor Plate I-Beam Round Rod Round Rod Rectangular Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 3/8" 4" x 1-1/8" x 3/8" 1/8" 1/4" 2" cube wi 2" 2" x 2" x .156" 1.70" 1.68" 5/8" 1/8" 1/4" no grit 1/4" no grit 1/4" no grit 1/4" no grit 1/4" 8 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/6"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" 20' Long 8" Long 8" Long 6" Long 4' x 8' 4' x 8' 20' Long 20' Long 20' Long 20' Long 3" Long 4' Long 20' Long 4' Long 20' Long 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Gray Gray Gray Gray Gray Gray Gray Gray
EXTREN®	Trench Drain Angle Channel Channel Channel Floor Plate Floor Plate Sq. 90' Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Square Plug Fibrebolt Fibrenut Floor Plate I-Beam Round Rod Rectangular Tube Round Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" z 6" x 4' 2" x 2" x .156" 1.70" 1.68" 5/8" 1/8" no grit 1/4" 8 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/8" 1-1/4" & 1-1/2" x 1/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 1' x .75" 20' Long 8" Long 6" Long 4' x 8' 4' x 8' 1 Long 6" Long 20' Long 8" Long 6" Long 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Sq. Post Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Floor Plate Floor Dlate Floor Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Round Rod Rectangular Tube Round Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" z cube wi 2" x 2" x 156" 1.70" 1.68" 5/8" 1/8" no grit 1/4" no grit 1/4" 8 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/8" 2" x 1/8" 1-1/4" & 1-1/2" x 1/8" 2" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' X 8' 4' X 8' 1' X .75" 20' Long 8" Long 6" Long 4' Long 8" 4' X 8' 4' X 8' 4' X 8' 20' Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Gray Gray Gray Gray Cray Gray Gray Gray Gray Gray Gray Gray G
	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Angle Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Floor Plate Floor Plate Floor Plate I-Beam Round Rod Rectangular Tube Round Tube Round Tube Round Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2": 6" x 4' 2" x 2" x .156" 1.70" 1.68" 5/8" 5/8" 5/8" 1/4" no grit 1/4" no grit 1/4" no grit 1/4" 8 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/8" 1-1/2" x 1/8" 1-1/2" x 1/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 1 x .75" 20' Long 8" Long 6" Long 4' Long 8" Long 6" Long 20' Long	SPF	Beige Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Yellow Black Yellow Yellow Yellow Yellow Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Floor Plate Sq. 90° Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Round Rod Round Rod Rectangular Tube Round Tube Round Tube Round Tube Square Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2": 6" x 4' 2" x 2" x 1.56" 1.70" 1.68" 5/8" 5/8" 1/4" no grit 1/4" 8 3/8" dia. 1" x 1/4" & 3/8" dia. 1" x 1/4" & 1-1/2" x 1/8" 2" x 1/4" 1-1/2" x 1/8" 1" x 1/8"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" ' x .75" 20' Long 8" Long 6" Long 4' Long 8" 4' x 8' 4' x 8' 4' x 8' 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Trench Drain Angle Angle Angle Angle Angle Angle Angle Angle Angle Channel Channel Channel Floor Plate Floor Plate Floor Plate Sq. 20° Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Round Rod Round Rod Round Rod Rectangular Tube Round Tube Round Tube Square Tube Square Tube Square Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" 2" x 2" x .156" 1.70" 1.68" 5/8" 5/8" 1/4" no grit 1/4" 8 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/8" 2" x 1/4" 1-1/4" & 1-1/2" x 1/8" 2" x 1/4" 1" x 1/8" 2" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' th 2.5" legs x 2" ' x .75" 20' Long 8" Long 6" Long 4' x 8' 4' x 8' 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Angle Channel Channel Channel Floor Plate Floor Plate Floor Plate Sq. 90' Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Floor Diate Floor Diate Fibredolt Fibrenut Floor Plate Floor Plate Floor Plate Floor Plate Floor Plate Floor Diate Floor Plate Floor Diate Floor Plate Floor Diate Floor Di	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 3/8" 4" x 1-1/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" x 2" x 1.56" 1.70" 1.68" 5/8" 1/8" 1/4" 1/4" no grit 1/4" x 1/4" 1/4" & 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/8" 1-1/4" & 1-1/2" x 1/8" 2" x 1/4" 1" x 1/8" 2" x 1/4" 3" x 1/4" 3" x 1/4" 3" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 4' x 8' 1' x .75" 20' Long 8" Long 6" Long 4' x 8' 4' x 8' 4' x 8' 1 Long 6" Long 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain dj. Sq. Connector Angle Channel Channel Channel Channel Floor Plate Floor Plate Sq. Post Base Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Square Tube Round Tube Round Tube Square Tube	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/4" 2" cube wi 2" 2" x 2" x .156" 1.70" 1.68" 5/8" 5/8" 1/4" no grit 1/4" 8 3/8" dia. 1", 1-1/4", or 1-1/2" dia. 4" x 2" x 1/8" 2" x 1/4" 1-1/4" & 1-1/2" x 1/8" 2" x 1/4" 1" x 1/8" 2" x 1/4"	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 1' x .75" 20' Long 8" Long 6" Long 4' Long 8" Long 6" Long 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray
	Trench Drain Angle Channel Channel Channel Floor Plate Floor Plate Floor Plate Sq. 90' Corner Plug Sq. End Cap Sq. Post or Rail Split Tube Square Plug Fibrebolt Fibrenut Floor Plate Floor Plate Floor Plate Floor Diate Floor Diate Fibredolt Fibrenut Floor Plate Floor Plate Floor Plate Floor Plate Floor Plate Floor Diate Floor Plate Floor Diate Floor Plate Floor Diate Floor Di	Kit 2 STRUCTURAL SHAPES/ 1-1/2" x 1-1/2" x 3/16", 1/4" 2" x 2" x 3/16", 1/4" 3" x 3" x 1/4" & 3/8" 4" x 4" x 1/4" 4" x 4" x 1/4" 6" x 1-5/8" x 1/4" 8" x 2-3/16" x 3/8" 1/8" 1/8" 2" cube wi 2" cube wi 2" x 2" x .156" 1.70" 1.68" 5/8" 5/8" 1/4" no grit 1/4" no grit	PLATE/HANDRAIL COMPONE -1/2" x 1/4" 20' Long 4' x 8' 4' x 8' 4' x 8' 1' x .75" 20' Long 8" Long 6" Long 4' x 8' 4' x 8' 4' x 8' 1 Long 6" Long 20' Long	SPF	Beige Gray Gray Gray, Olive Gray, Olive Gray, Olive Gray, Olive Gray Gray Gray Gray Gray Gray Gray Gray

Resin Guide





FREE Full-Line
Master Catalog 2009
Includes:

NEW! Designer Metals and
Designer Metals Finishes
Perforated Metal
Expanded Metal
Wire Cloth/Mesh
Bar, Plank & Safety Grating

Fiberglass Grating & Structurals
Handrail Components

Resin	Туре	Characteristics				
SPF	Polyester	Isophthalic polyester resin is fire retardant and meets the requirements for Class 1 flame rating of 25 or less per ASTM E-84.				
SVF	Vinyl Ester	Vinyl ester resin is fire retardant and meets the requirements for Class 1 flame rating of 25 or less per ASTM E-84.				
SGF	Polyester	Orthophthalic polyester architectural grade resin is fire retardant and meets the requirements for Class 1 flame rating of 25 or less per ASTM E-84.				
SFF	Polyester	Isophthalic polyester resin food grade is fire retardant and meets the requirements for Class 2 flame rating of 30 or less per ASTM E-84.				
SPW	Polyester	Polyester resin available in white only is non-fire retardant.				
SPH NEW!	Phenolic Ask us!	Phenolic resin is fire retardant and meets the Class 1 flame rating of 25 or less per ASTM E-84. Has flame spread index of 10 and smoke index of 10. Special Order				



Durable, corrosion resistant Fiberglass Grating was used in construction of stairs and walkway for this outdoor environment.



Phenolic Fiberglass Grating withstands the most extreme thermal conditions.





Square Molded Fiberglass Grating was used as this trench grating cover—low maintenance and durable.

Chemical Resistance Guide

Customer Service Specialists have information on chemical resistance for pultruded floor plate.

The following definitions will aid readers using this Chemical Resistance Guide: AMB - Ambient or room temperature exposure; NR - Not Resistant; - No Data. NOTE: Temperature data may not be maximum, but rather upper temperature at which a resin has been tested. This is intended for general use only. This chart does not contain chemical information for pultruded floor plate.

* Applies to SAFPLANK® & SAFDECK® only.

Consult McNICHOLS for corrosion recommendations at concentrations, temperatures or chemicals not listed in this guide. The information in this guide is correct to the best of our knowledge. It is based on extensive experience with fiberglass grating in corrosive applications. Because actual use conditions differ and mixtures of corrosives will occur in service, the end user must test for use under actu-

al conditions. Most of the information in this guide is based on laboratory tests and extrapolated values supplied by resin manufacturers. There are no warranties, expressed or implied, including warranties of merchantability or fitness for any particular purpose. In no event will McNICHOLS be liable for incidental or consequential damages, whether arising from alleged negligence, strict liability or otherwise.

Chemical Environment	Vinyl ester SV	Polyester SP	Chemical Environment	Vinyl ester SV	Polyester SP
Acetic Acid 0-50%	160	74	Citric Acid	160	150
Alcohol, Butyl	74	NR	Coconut Oil	160	74
Alcohol, Ethyl 10%	150	NR	Copper Chloride	160	150
Alcohol, Isopropyl 10%	150	-	Copper Cyanide	160	NR
Alcohol, Isopropyl 100%	74	NR	Copper Fluoride	160	NR
Alcohol, Methyl 10%	150	NR	Copper Nitrate	74	150
Alcohol, Methyl Isobutyl	150	NR	Copper Sulfate	160	150
Alcohol, Secondary Butyl	150	NR	Corn Oil	160	74
Alum	160	150	Corn Starch-Slurry	160	74
Aluminum Chloride	160	150	Corn Sugar	160	74
Aluminum Hydroxide 5%	120	NR	Cottonseed Oil	160	74
Aluminum Nitrate	160	150*	Crude Oil, Sour	160	74 74
Aluminum Potassium Sulfate Ammonia, Aqueous 0-10%	160	150	Crude Oil, Sweet	160 120	74
	100	-	Cyclohexane Detergents, Sulfonated	160	74
Ammonia, Gas Ammonium Bicarbonate	120	74	Di-Ammonium Phosphate	160	NR
Ammonium, Bisulfite	120	-	Dibutyl Ether	120	NR
Ammonium Carbonate 10%	120	-	Diesel Fuel	160	74
Ammonium Citrate	120	74*	Diethylene Glycol	160	74
Ammonium Hydroxide 5%	120	74	Dimenthyl Phthalate	160	NR
Ammonium Hydroxide 5% Ammonium Hydroxide 10%	120	NR	Dioctyl Phthalate	160	NR NR
Ammonium Hydroxide 10%	120	NR	Dipropylene Glycol	160	74
Ammonium Nitrate 50%	160	150	Dodecyl Alcohol	160	NR*
Ammonium Persulfate 20%	120	NR	Esters, Fatty Acids	160	150*
Ammonium Phosphate	120	NR	Ethylene Glycol	160	150
Ammonium Sulfate	160	150	Fatty Acids	160	150
Arsenious Acid	160	74*	Ferric Chloride	160	150
Barium Acetate	160	NR	Ferric Nitrate	160	150
Barium Carbonate	160	NR	Ferric Sulfate	160	150
Barium Chloride	160	74	Ferrous Chloride	160	150
Barium Hydroxide	120	-	Ferrous Nitrate	160	150
Barium Sulfate	160	150	Ferrous Sulfate	160	150
Barium Sulfide	160	NR	8-8-8 Fertilizer	160	74
Beer	120	74	Fertilizer: Urea Ammon. Nitrate	120	NR*
5% Benzene in Kerosene	160	74*	Flue Gas	160	NR*
Benzene Sulfonic Acid 30%	160	150	Fluosilicic Acid 0-20%	160	NR
Benzoic Acid	160	74	Formaldehyde	160	74
O-Benzoyl Benzoic Acid	160	74*	Formic Acid 10%	160	74
Butylene Glycol	160	150	Fuel Oil	160	74
Butyric Acid 0-50%	160	74	Gas, Natural	160	74
Cadmium Chloride	160	74	Gasoline, Auto	160	74
Calcium Bisulfate	160	150	Gasoline Aviation	160	74
Calcium Carbonate	-	-	Gasoline, Ethyl	160	74
Calcium Chlorate	160	150	Gasoline, Sour	160	74
Calcium Chloride	160	150	Glyconic, Acid	160	74
Calcium Hydroxide	-	-	Glucose	160	150
Calcium Hypochlorite	120	74	Glycerine	160	150
Calcium Nitrate	160	150	Glycol, Propylene	160	150
Calcium Sulfate	160	150	Glycolic Acid 70%	160	74
Calcium Sulfite	160	150	Heptane	160	74
Caprylic Acid	160	74	Hexane	160	74
Carbon Dioxide	160	150	Hexalene Glycol	160	150
Carbon Monoxide	160	150	Hydraulic Fluid	160	74
Carbon Tetrachloride	100	NR*	Hydrobromic Acid 0-25%	160	74 ND*
Carbonic Acid	160	150	Hydrochloric Acid 15%	160	NR*
Carbon Methyl Cellulose	120	NR*	Hydrocyanic Acid	160	74
Castor Oil	160	150*	Hydrofluosilicic Acid 10%	160	NR ND*
Chlorina Diovida (Air	160	NR*	Hydrogen Bromide, Wet Gas	160	NR*
Chloring Dioxide Wet Con	160	74 ND*	Hydrogen Chloride, Dry Gas Hydrogen Chloride, Wet Gas	160	NR*
Chloring Dioxide, Wet Gas	160	NR*		160 74	NR 95
Chloring, Wet Goo	160	74 ND	Hydrogen Fluoride, Vapor Hydrogen Peroxide 35%	120	
Chloring, Wet Gas	160	NR	Hydrogen Peroxide 35% Hydrogen Sulfide Dry	160	ASK 74* ASK
Chlorine, Water Chloroacetic Acid 0-50%	160	NR	Hydrogen Sulfide Dry Hydrogen Sulfide, Aqueous	160	74" ASK 74*
Chromic Acid 20%	100 120	NR NR*	Hydrogen Sullide, Aqueous Hydrosulfite Bleach	120	NR*
Chromic Acid 20% Chromium Sulfate	160	150	Hypochlorous Acid 0-10%	160	ASK
Onionium Sunate	100	100	Trypochiorous Acid 0-10%	100	ASN

Continued on page 7.



Chemical Resistance Guide

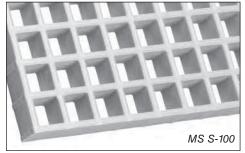
Fiberglass Grating

* Applies to SAFPLANK® & SAFDECK® only. See page 6 for information on using this guide.

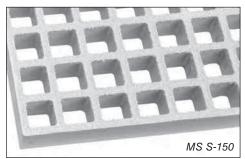
Chemical Environment	Vinyl ester SV	Polyester SP	Chemical Environment	Vinyl ester SV	Polyester SP
Isopropyl Amine	100	NR*	Sodium Bifluoride	120	74
Isopropyl Palmitate	160	150	Sodium Bisulfate	160	150
Jet Fuel	160	74*	Sodium Bisulfite	160	150
Kerosene	160	74*	Sodium Bromate	140	74*
Lactic Acid	160	ASK	Sodium Bromide	160	150
Lauroyl Chloride	160	NR*	Sodium Carbonate 0-25%	-	-
Lauric Acid	160	NR*	Sodium Chlorate	160	74
Lead Acetate	160	ASK	Sodium Chloride	160	74
Lead Chloride	160	74*	Sodium Chlorite 25%	160	74
Lead Nitrate	160	74*	Sodium Chromate	160	74*
Levulinic Acid	160	74*	Sodium Cyanide	160	74
Linseed Oil	160	150*	Sodium Dichromate	160	150
Lithium Bromide	160	150*	Sodium Di-Phosphate	160	150
Lithium Sulfate	160	150* 74*	Sodium Ferricyanide Sodium Fluoride	160 120	150 NR*
Magnesium Bisulfite	160	- 74	Sodium Fluoride Sodium Fluoro Silicate	120	NR*
Magnesium Carbonate Magnesium Chloride	160	150+ASK	Sodium Hexametaphosphates	100	NR*
Magnesium Hydroxide	140	NR*	Sodium Hydroxide 0-5%	150	NR
Magnesium Nitrate	160	74+ASK	Sodium Hydroxide 5-50%	150	NR NR
Magnesium Sulfate	160	150* ASK	Sodium Hydrosulfide	160	74
Maleic Acid	160	150 ASK	Sodium Hypochlorite 5%	-	-
Mercuric Chloride	160	ASK	Sodium Lauryl Sulfate	160	150
Mercurous Chloride	160	ASK	Sodium Mono-Phosphate	160	150
Methanol (See Alcohol)	160	74*	Sodium Nitrate	160	150
Mineral Oils	160	150	Sodium Silicate	160	74
Molybdenum Disulfide	160	NR*	Sodium Sulfate	160	150
Motor Oil	160	150	Sodium Sulfide	160	74
Myristic Acid	160	ASK	Sodium Sulfite	160	74
Naphtha	160	150	Sodium TetraBorate	160	150
Naphthalene	160	74	Sodium Thiocyanate	160	NR*
Nickel Chloride	160	74	Sodium Thiosulfate	160	74
Nickel Nitrate	160	150	Sodium Tripolyphosphate	160	74
Nickel Sulfate	160	150	Sodium Xylene Sulfonate	160	74
Nitric Acid 0-5%	160	150	Sodium Solutions	160	74
Nitric Acid 20%	120	NR*	Sodium Crude Oil	160	150
Nitric Acid Fumes	NR	NR*	Soya Oil	160	150
Octanoic Acid	160	74	Stannic Chloride	160	150
Oil, Sour Crude	160	150	Stannous Chloride	160	150
Oil, Sweet Crude	160	150	Stearic Acid	160	150
Oleic Acid	160	150	Sugar, Beet and Cane Liquor	160	74
Olive Oil	160	150	Sugar, Sucrose	160	150
Oxalic Acid	160	150	Sulfamic Acid	160	74
Phosphoric Acid	160	150	Sulfanilic Acid	160	74*
Phosphoric Acid Fumes	160	150	Sulfated Detergents	160	74
Phosphorous Pentoxide	160	150	Sulfur Dioxide, Dry or Wet Sulfur. Trioxide/Air	160	NR*
Phthalic Acid	160	150		160	NR*
Pickling Acids	160	150	Sulfuric Acid 25% Sulfuric Acid 30-50%	160 160	150 NR
(Sulfuric and Hydrochloric)	160	150	Sulfuric Acid 50-50% Sulfuric Acid 50-70%	120	NR NR
Picric Acid, Alcoholic Polyvinyl Acetate Latex	160	74	Sulfurous Acid 10%	100	NR
Polyvinyl Alcohol	100	74	Superphosphoric Acid (76% P ² O ⁵)	160	74
Polyvinyl Chloride Latex (35)	120	NR*	Tall Oil	150	74
Potassium Aluminum Sulfate	160	150	Tannic Acid	120	74
Potassium Bicarbonate	140	74	Tartaric Acid	160	150
Potassium Bromide	100	74*	Trichloro Acetic Acid 50%	160	74
Potassium Carbonate	-	-	Tricresyl Phosphate	120	NR*
Potassium Chloride	160	150	Tridecylbenzene Sulfonate	160	74*
Potassium Dichromate	140	74*	Trisodium Phosphate	160	74
Potassium Ferricyanide	160	150	Turpentine	100	NR*
Potassium Ferrocyanide	160	150	Urea	140	74
Potassium Hydroxide	-	-	Vegetable Oils	160	150
Potassium Nitrate	160	150	Vinegar	160	150
Potassium Permanganate	140	74	Water;		
Potassium Persulfate	160	74	Deionized	160	150
Potassium Sulfate	160	150	Demineralized	160	150
Propionic Acid 1-50%	120	NR*	Distilled	160	150
Pulp Paper Mill Effluent			Fresh	160	150
	160	74			
Sebacic Acid	160	NR*	Salt	160	150
Sebacic Acid Selenious Acid	160 160	NR* NR*	Salt Sea	160 160	150 150
Sebacic Acid Selenious Acid Silver Nitrate	160 160 160	NR* NR* 150	Salt Sea White Liquor (Pulp Mill)	160 160 160	150 150 74
Sebacic Acid Selenious Acid Silver Nitrate Soaps	160 160 160 160	NR* NR* 150 74	Salt Sea White Liquor (Pulp Mill) Xylene	160 160 160 NR	150 150 74 NR
Sebacic Acid Selenious Acid Silver Nitrate Soaps Sodium Acetate	160 160 160 160 160	NR* NR* 150 74 74	Salt Sea White Liquor (Pulp Mill) Xylene Zinc Chlorate	160 160 160 NR 160	150 150 74 NR 150
Sebacic Acid Selenious Acid Silver Nitrate Soaps	160 160 160 160	NR* NR* 150 74	Salt Sea White Liquor (Pulp Mill) Xylene	160 160 160 NR	150 150 74 NR

Molded Product Details

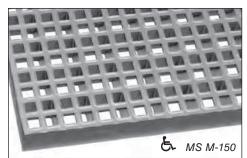
Gratings that meet ADA spacing requirements are noted with this symbol.



Molded Square - non-grit shown



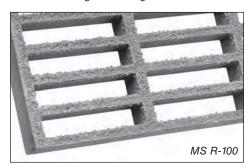
Molded Square - grit shown



Mini-Grid™ Molded Square



Molded Rectangular - non-grit shown



Molded Rectangular - grit shown

Corrosion Resistant

Fire Retardant

Lightweight

Maintenance Free

Molded fiberglass shapes

made from a polyester or vinyl ester resin matrix

PATTERN:

1", 1-1/2", 2" square; 1" x 4", 1-1/2" x 6" rectangular

Mini-Grid_™ - Top: 3/4" x 3/4" mesh;

Bottom: 1-1/2" x 1-1/2" mesh Square-1", 1-1/2" or 2"

HEIGHTS: Rectangular - 1", 1-1/2": Mini-Grid - 1-1/2"

WIDTHS: Square-3', 4', or 5'; Rectangular-3' or 4'; Easy to Install & Fabricate

Cost Effective

Bidirectional Load Bearing

Impact Resistant

LENGTHS: 8', 10', 12'

Mini-Grid_™: 4' x 8' &12' plank

SVF - Orange or Dark Gray RESIN/ COLORS: SPF - Green or Yellow

SGF - Yellow, Green, or Dark Grav SFF - Light Gray

SURFACE: Concave.

Grit surface also available.

LOADING: Treads, see P. 17

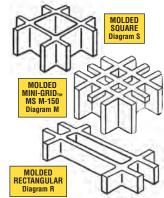
NSF_o-61 Certified Resins Available by Special Order Please contact information!

#SF Open Area

Our molded fiberglass is a strong mesh grating panel which allows efficient on-site cutting to minimize grating waste. It is molded in one piece with a plain concave slip resistant walking surface; it is the chemical resistant flooring choice for many industrial applications. Load bearing bars in both directions allow for use without continuous side support.

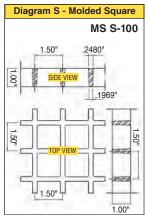
Molded fiberglass grating is significantly lighter in weight than metal gratings. The high resin content (65%) provides long maintenance free performance. A higher safety factor is achieved by designing in a higher glass content at the bottom of the grating for greater tensile strength. Special UV inhibitors also available.

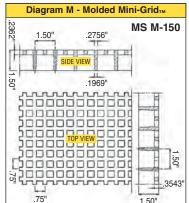
Molded Product Details Series Number Height

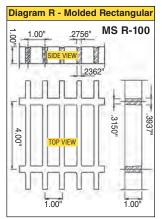


MS S-100	1"	1-1/2" x 1-1/2"	2.60#	70%
MS S-150	1-1/2"	1-1/2" x 1-1/2"	3.80#	70%
MS S-200	2"	2" x 2"	4.00#	72%
MS M-150	1-1/2"	Top: 3/4" x 3/4" Bottom: 1-1/2" x 1-1/2"	4.40#	44%
MS R-100	1"	1" x 4"	2.80#	69%
MS R-150	1-1/2"	1-1/2" x 6"	3.75#	67%

Mesh







Load Tables Molded



	MS	MS S-100		t. M	olded	Squa	re	LOA	D TABLE	SAFE LOAD 5:1 SAFETY
SPAN	LOAD	50	100	150	200	250	300	400	500	FACTOR
12"	ΔU	<.010	<.010	.013	.017	.021	.025	.034	.042	1360
	\triangle C	<.010	.014	.020	.027	.034	.041	.054	.068	680
18"	\triangle U	.021	.041	.062	.082	.103	.123	.164	.205	666
10	\triangle C	.022	.044	.066	.088	.110	.131	.175	.219	500
24"	\triangle U	.064	.128	.192	.256	.320	.384	.512	.640	380
24	\triangle C	.051	.102	.154	.205	.256	.307	.409	.512	380
2011	Δυ	.155	.309	.464	.619					240
30"	\triangle C	.099	.198	.297	.396	.495	.594			300
o CII	ΔU	.318	.635					1-1/2"	x 1-1/2"	160
36"	△ c	.169	.339	.508	.677			Squar	e Mesh	240

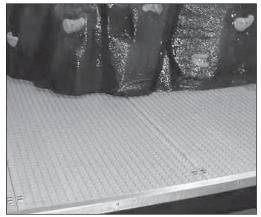
3120 1560 1386
1560
1386
1000
1040
780
780
496
620
347
520
251
440
170
340

	Mini	-Grid™	MS M	-150	1-1/2"	Ht. N	lolded	Squa	re LOAD	SAFE LOAD 5:1 SAFETY
SPAN	LOAD	50	100	150	200	250	300	400	500	FACTOR
12"	Δυ	<.010	<.010	.011	.014	.017	.021	.028	.035	3860
12	\triangle C	<.010	.011	.017	.022	.028	.034	.045	.056	1930
4011	Δυ	.013	.026	.039	.052	.065	.078	.104	.130	1776
18"	△с	.014	.028	.042	.056	.070	.084	.112	.139	1332
24"	Δυ	.025	.050	.075	.100	.126	.151	.201	.251	1052
24	\triangle C	.020	.040	.060	.080	.101	.121	.161	.201	1052
30"	Δυ	.055	.110	.165	.219	.274	.329	.439	.548	632
อบ	\triangle C	.035	.070	.105	.140	.176	.211	.281	.351	790
36"	Δυ	.087	.173	.260	.346	.433	.520	.692		456
30	\triangle C	.046	.092	.139	.185	.231	.277	.370	.462	684
4011	Δυ	.150	.300	.450	.600					332
42"	\triangle C	.069	.138	.207	.276					582
48"	ΔU	.245	.490	.735				8/4" squa		215
40	\triangle C	.098	.196	.294			Bottom:	1-1/2" sq	uare mesh	430

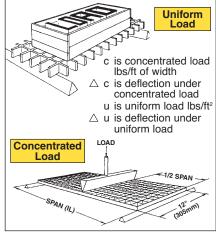
	MS	S-20	0 2" H	It. M	olded	Squ	are	LOA	D TABLE	SAFE LOAD 5:1 SAFETY
SPAN	LOAD	50	100	150	200	250	300	400	500	FACTOR
12"	Δυ	<.010	<.010	<.010	<.010	<.010	<.010	<.010	.010	4000
12	\triangle C	<.010	<.010	<.010	<.010	<.010	.010	.013	.016	2000
18"	ΔU	<.010	<.010	.012	.016	.020	.024	.032	.040	1813
10	∆ c	<.010	<.010	.013	.017	.021	.026	.034	.043	1360
24"	ΔU	.010	.021	.031	.042	.052	.063	.083	.104	960
24	\triangle C	<.010	.017	.025	.033	.042	.050	.067	.083	960
30"	ΔU	.023	.046	.069	.092	.114	.137	.183	.229	640
JU	\triangle C	.015	.029	.044	.059	.073	.088	.117	.146	800
36"	ΔU	.044	.089	.133	.177	.222	.266	.355	.444	453
30	\triangle C	.024	.047	.071	.095	.118	.142	.189	.237	680
42"	∆U	.082	.164	.245	.327	.409	.491	.654		331
42	\triangle C	.037	.075	.112	.150	.187	.224	.299	.374	580
48"	∆ U	.135	.270	.405	.541					260
40	\triangle C	.054	.108	.162	.216	.270	.324	.432	.541	520
54"	Δυ	.210	.420	.630					2" x 2"	204
54	\triangle C	.075	.149	.224	.298	.373	.448	.597	Sq. Mesh	460

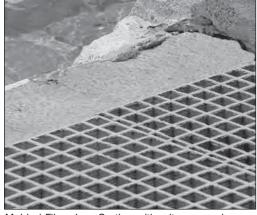
	MS F	R-100 1	" Ht. N	Tolded	Rectan	gular		LO.	AD TABLE	SAFE LOAD 5:1 SAFETY
SPAN	LOAD	50	100	150	200	250	300	400	500	FACTOR
12"	ΔU	<.010	<.010	<.010	.011	.014	.017	.022	.028	1960
12	Δc	<.010	<.010	.013	.018	.022	.027	.035	.044	980
4.011	Δυ	.012	.025	.037	.049	.062	.074	.099	.123	960
18"	△ C	.013	.026	.039	.053	.066	.079	.105	.131	720
24"	Δυ	.037	.074	.112	.149	.186	.223	.298	.372	560
24	△ C	.030	.060	.089	.119	.149	.179	.238	.298	560
2011	Δυ	.088	.176	.264	.352	.440	.528			336
30"	△с	.056	.113	.169	.225	.282	.338	.451	.563	420
36"	Δυ	.176	.353	.529						240
30	△с	.094	.188	.282	.376	.470	.564			360
4011	Δυ	.316	.632					1" x	4"	183
42"	△с	.144	.289	.433	.577			Rectangu	lar Mesh	320

	MS F	R-150 1	-1/2" H	lt. Mol	ded Re	ctangul	ar	LOA	D TABLE	SAFE LOAD 5:1 SAFETY
SPAN	LOAD	50	100	150	200	250	300	400	500	FACTOR
12"	∆ U ∆ C	<.010 <.010	<.010 <.010	<.010 .011	<.010 .015	.011 .018	.014 .022	.018 .029	.023 .037	4272 2136
18"	∆ U ∆ C	<.010 .010	.018 .019	.027 .028	.035 .038	.044 .047	.053 .057	.071 .076	.089 .095	1712 1284
24"	∆ U ∆ C	.019 .015	.038	.056 .045	.075 .060	.094 .075	.112 .090	.150 .120	.188 .150	956 956
30"	∆ U ∆ C	.039 .025	.078 .050	.117 .075	.156 .100	.195 .125	.233 .150	.311 .200	.389 .250	587 734
36"	∆ U ∆ C	.071 .038	.143 .076	.214 .114	.285 .152	.357 .190	.428 .228	.304	.381	385 578
42"	∆ U ∆ C	.126 .058	.252 .115	.378 .173	.504 .230	.630 .288	.346	.461		370 472
48"	∆ U ∆ C	.207 .083	.414 .160	.621 .248	.331	.414	.497	1-1/2 Rectangu		184 368



Molded Square Fiberglass Grating platform was used to make a sturdy platform for this climbing wall.

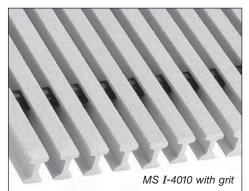




Molded Fiberglass Grating with grit was used as a durable and safe walkway at this water attraction.

Fiberglass Grating

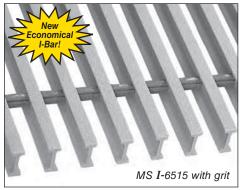
Pultruded Product Details



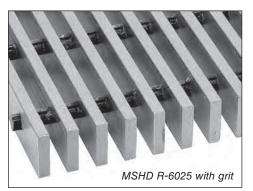
Pultruded I-Bar with .40" top flange spacing



Pultruded I-Bar with .90" top flange spacing



Pultruded I-Bar with 1.11" top flange spacing



HD Rectangular Bar with .90" top flange spacing

Corrosion Resistant

Fire Retardant

High Longitudinal Strength

Low Maintenance

Maximum Stiffness

Non-Conductive

Impact Resistant

Easy Fabrication, More!

MATERIAL: Pultruded fiberglass shapes made from polyester or vinyl ester

(special order) resin with 3 piece cross rod assembly

PATTERN: I-Bar shaped bearing bars with perpendicular cross bar rods placed

every 6" (12" special)

HEIGHTS: 1", or 1-1/2"; Heavy Duty Rectangular Bar 1" - 2-1/2" (special)

3', 4', or 5' WIDTHS: LENGTHS: 8', 10', 12', 20'

RESIN/ SPF - Yellow or gray (stock) SURFACE: Gritted or Plain

COLORS: SVF - Yellow or gray (special) LOADING: P. 11 NEW! SPH - Phenolic Brown (special) Treads P. 17

Pultruded I-Bar is manufactured with a high percentage of glass within the laminate, providing durability, extremely high unidirectional strength and stiffness. UV coating available by special order. Heavy duty rectangular bar is designed to take heavy wheel traffic. Due to the variety of wheel types and loading contact our Customer Service Specialists to determine the type of heavy duty grating required.

MS I-Bar Series	Bearing Bar Size	Series Number	#/SF	A	В	С	Open Area
Width END VIEW	1.00" x .60"	MS I-4010	3.40#	1.00"	.40"	.40"	40%
 + + B + 	1.50" x .60"	MS I-4015	4.20#	1.00"	.40"	.40"	40%
Tell min	1.00" x .60"	MS I-6010	2.40#	1.50"	.90"	.90"	60%
±	1.50" x .60"	MS I-6015	3.00#	1.50"	.90"	.90"	60%
←C→ ← A →	1.50" x .60"	MS I-6515	2.70#	1.71"	1.11"	1.11"	65%

A = Center to center of bearing bars STOCK

Heavy Duty Rectangular Bar MSHD Series	Bearing Bar Size	Series Number	#/SF	Α	В	С	Open Area
Width MCHD D Covice	1.00" x .60"	MSHD R-6010	4.90#	1.50"	.90"	.90"	60%
MSHD R Series	1.25" x .60"	MSHD R-6012	5.90#	1.50"	.90"	.90"	60%
	1.50" x .60"	MSHD R-6015	7.00#	1.50"	.90"	.90"	60%
Height	1.75" x .60"	MSHD R-6017	8.00#	1.50"	.90"	.90"	60%
	2.00" x .60"	MSHD R-6020	9.00#	1.50"	.90"	.90"	60%
	2.25" x .60"	MSHD R-6022	10.10#	1.50"	.90"	.90"	60%
END VIEW -CA	2.50" x .60"	MSHD R-6025	11.10#	1.50"	.90"	.90"	60%

A = Center to center of bearing bars

B = Spacing between bearing bar top flanges

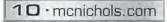
C = Spacing between bearing bar bottom flanges



The Pultruded Phenolic Grating used on this platform features fire integrity, weight savings and is U.S. Coast Guard approved.



Fiberglass Grating was used for this amusement ride walkway.



- For All Load Tables on this Page C Is concentrated load lbs/ft of width
- △ C Is deflection under concentrated load
- U Is uniform load lbs/ft²

 △ U Is deflection under uniform load

Load Tables Pultruded



	M:	8 I-	401	0 1	" Ht	. P	ultr	ude	d I-	Bar		LO.	AD TA	BLE	SAFE LOAD 2:1
SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	5000	6000	SAFETY FACTOR
12"	ΔU	.001	.002	.004	.005	.006	.009	.012	.024	.030	.036	.048	.060	.073	15600
12	\triangle C	.002	.004	.006	.008	.010	.015	.019	.039	.048	.058	.077	.097	.116	7800
4.011	ΔU	.006	.011	.017	.022	.028	.042	.056	.112	.139	.167	.223	.279	.335	7431
18"	△C	.006	.012	.018	.024	.030	.045	.060	.119	.149	.179	.238	.298	.357	5573
24"	ΔU	.017	.033	.050	.066	.083	.124	.166	.332	.415	.498	.664			4350
24	△c	.013	.027	.040	.053	.066	.100	.133	.265	.332	.398	.531	.664		4350
2011	ΔU	.039	.077	.116	.154	.193	.289	.386							2784
30"	△C	.025	.049	.074	.099	.123	.185	.247	.494	.617					3480
ocu.	ΔU	.077	.153	.230	.307	.383	.575								1933
36"	△C	.041	.082	.123	.164	.205	.307	.409							2900
4011	ΔU	.141	.281	.422	.563	.703							ring B		1414
42"	△C	.064	.129	.193	.257	.321	.482	.643					Cent		2474
4011	ΔU	.235	.470	.705											1078
48"	△C	.094	.188	.282	.376	.470									2155

	MS	3 I-	401	5 1	-1/2	" H	t. F	ultı	rude	d I	-Ba	r		L0	AD TA	ABLE	SAFE LOAD 2:1
SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000	8000	9000	SAFETY FACTOR
12"	ΔU	.000	.001	.001	.002	.002	.003	.004	.009	.013	.017	.021	.026	.030	.034	.038	26400
12	ΔC	.001	.001	.002	.003	.003	.005	.007	.014	.020	.027	.034	.041	.048	.055	.061	13200
18"	ΔU	.002	.004	.006	.008	.010	.015	.020	.040	.061	.081	.101	.121	.141	.162	.182	11734
10	ΔC	.002	.004	.006	.009	.011	.016	.022	.043	.065	.086	.108	.129	.151	.172	.194	8800
2411	ΔU	.006	.012	.018	.024	.030	.046	.061	.122	.183	.244	.305	.366	.427	.488	.549	6600
24"	ΔC	.005	.010	.015	.020	.024	.037	.049	.098	.146	.195	.244	.293	.342	.390	.439	6600
2011	ΔU	.014	.029	.043	.057	.072	.108	.143	.287	.430	.574	.717					4160
30"	ΔC	.009	.018	.028	.037	.046	.069	.092	.184	.276	.367	.459	.551	.643			5200
ocu.	ΔU	.029	.058	.087	.116	.145	.218	.291	.582								2844
36"	ΔC	.016	.031	.047	.062	.078	.116	.155	.310	.466	.621						4267
4011	ΔU	.053	.106	.159	.211	.264	.396	.528							ring E		2041
42"	ΔC	.024	.048	.072	.097	.121	.181	.242	.483	.725					ced 1 Cen		3571
4011	ΔU	.089	.178	.266	.355	.444	.666										1525
48"	ΔC	.036	.071	.107	.142	.178	.266	.355	Info	rmati	on is a	availa	ble or	long	er sp	ans.	3050

MS I-6010 1" Ht. Pultruded I-Bar LOAD TABLE	SAFE LOAD 2:1 SAFETY FACTOR 10401 5200 4954 3716
12" △ U .002 .004 .005 .007 .009 .014 .018 .036 .054 .073 .091 △ C .003 .006 .009 .012 .015 .022 .029 .058 .087 .116 .145 18" △ U .008 .017 .025 .033 .042 .063 .084 .167 .251 .335 .418	10401 5200 4954
12" △ C .003 .006 .009 .012 .015 .022 .029 .058 .087 .116 .145 18" △ U .008 .017 .025 .033 .042 .063 .084 .167 .251 .335 .418	5200 4954
18" △ U .008 .017 .025 .033 .042 .063 .084 .167 .251 .335 .418	4954
18" - 1	
0 000 018 027 026 045 067 080 170 260 257 446	2716
△ C .009 .018 .027 .036 .045 .067 .089 .179 .268 .357 .446	3/10
24" \(\times \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	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 Bearing Bars Spaced 1.50"	943
△ C .096 .193 .289 .386 .482 Spaced 1.50 on Center	1649
AOU A U .353 .705	719
48" △ C .141 .282 .423 .564 NOTE: When 100 pounds per square foot uniform load placed upon a 43" simple	1437
span, it will produce a deflection of 1/4" at midspan.	566
54"	1274

					1 10		_								SAFF						
	MS	<u> </u>	<u>601</u>	<u>51</u>	<u>-1/2</u>	<u>" Ht</u>	<u>. F</u>	<u>'ultr</u>	ude	d 1-E	sar	LC	AD T	ABLE	LOAD 2:1 SAFETY						
SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000	FACTOR						
4011	ΔU	.001	.001	.002	.003	.003	.005	.006	.013	.019	.026	.032	.038	.045	17601						
12"	ΔC	.001	.002	.003	.004	.005	.008	.010	.020	.031	.041	.051	.061	.072	8800						
18"	ΔU	.003	.006	.009	.012	.015	.023	.030	.061	.091	.121	.152	.182	.212	7823						
10	ΔC	.003	.006	.010	.013	.016	.024	.032	.065	.097	.129	.162	.194	.226	5867						
0.411	ΔU	.009	.018	.027	.037	.046	.069	.091	.183	.274	.366	.457	.549	.640	4400						
24"	ΔC	.007	.015	.022	.029	.037	.055	.073	.146	.220	.293	.366	.439	.512	4400						
30"	ΔU	.022	.043	.065	.086	.108	.161	.215	.430	.646					2773						
งบ	ΔC	.014	.028	.041	.055	.069	.103	.138	.276	.413	.551				3467						
36"	ΔU	.044	.087	.131	.175	.218	.327	.436							1896						
30	△ C	.023	.047	.070	.093	.116	.175	.233	.466						2845						
4011	ΔU	.079	.159	.238	.317	.396	.595						ing Ba		1361						
42"	ΔC	.036	.072	.109	.145	.181	.272	.362	Spaced 1.50" on Center												
4011	ΔU	.133	.266	.400	.533	.666			NOTE: When 100 pounds per square												
48"	ΔC	.053	.107	.160	.213	.266	.400	.533	foot uniform load placed upon a 56" simple span, it will produce a deflec-												
E AII	ΔU	.211	.422	.633					tion of 1/4" at midspan.												
54"	Δс	.075	.150	.225	.300	.375	.563	Inform	ation is	s availa	nformation is available about longer spar										

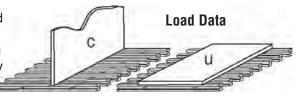
	MSH	ID R	-601	l0 1"	Ht.	Pultr	ude	l Red	ctang	ular	Bar	LOAD	TABLE	SAFE LOAD 2:1	
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000	SAFETY FACTOR	
12"	ΔU	.001	.002	.003	.005	.011	.021	.032	.042	.053	.063	.074	.085	9000	
12	△ C	.002	.003	.005	.008	.017	.034	.051	.068	.085	.102	.118	.135	7924	
18"	ΔU	.005	.010	.015	.025	.051	.101	.152	.203	.253	.304	.355	.405	6000	
10	△ C	.005	.011	.016	.027	.054	.108	.162	.216	.270	.324	.378	.432	5283	
24"	ΔU	.016	.031	.047	.078	.156	.313	.469	.625					3962	
24	△ C	.013	.025	.038	.063	.125	.250	.375	.500	.625				3962	
30"	ΔU	.037	.075	.112	.187	.374								2535	
JU	△ C	.024	.048	.072	.120	.240	.479							3170	
36"	ΔU	.077	.154	.231	.385							earing paced		1760	
30	△ C	.041	.082	.123	.205	.410						on Ce		2641	
42"	ΔU	.142	.283	.425			Г	hese lo	oad tab	les are	for the	e solid	bar	1294	
42	△ C	.065	.129	.194	.324	.647	h	eavy d	uty gra	ting de	signed	to take	9	2264	
48"	ΔU	.241	.482				t	ow mot	ors and	truck	traffic.	Due to	o	990	
40	△ C	.096	.193	.289	.482		the variety of wheel types and loading, it is recommended that you contact our Customer Service Specialists to								
54"	ΔU	.383					c	letermir	ne the s	series o	of heav	y duty		782	
54	△ C	.136	.272	.409	.681		g	rating i	needed	for yo	ur appl	ication		1761	

	MSH	ID R	R-601	2 1-	1/4"	Ht. Pı	ultru	ded I	Recta	ngul	ar Ba	1 LOAD	TABLE	
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000	SAFETY FACTOR
12"	ΔU	.001	.001	.002	.003	.006	.012	.018	.024	.030	.035	.041	.047	15000
14	△ C	.001	.002	.003	.005	.009	.019	.028	.038	.047	.057	.066	.076	14000
18"	ΔU	.003	.005	.008	.013	.026	.053	.079	.105	.131	.158	.184	.210	10000
10	ΔC	.003	.006	.008	.014	.028	.056	.084	.112	.140	.168	.196	.224	9370
24"	ΔU	.008	.016	.024	.040	.081	.161	.242	.322	.403	.484	.564	.645	7032
24	△ C	.006	.013	.019	.032	.064	.129	.193	.258	.322	.387	.451	.516	7032
30"	ΔU	.020	.039	.059	.098	.195	.390	.585						4500
JU	△ C	.012	.025	.037	.062	.125	.250	.374	.499	.624				5620
36"	ΔU	.040	.080	.121	.201	.402								3125
JU	△ C	.021	.043	.064	.107	.215	.429	.644						4680
42"	ΔU	.074	.148	.222	.371							earing aced		2296
42	△C	.034	.068	.102	.169	.339	.678					n Cen		4018
48"	ΔU	.125	.251	.376	.627									1758
40	△ C	.050	.100	.151	.251	.502								3516
54"	ΔU	.200	.399	.599										1389
J4	△ C	.071	.142	.213	.355	Int	ormat	ion is	availab	le abo	ut Ion	ger spa	ans.	3126



Heavy Duty Rectangular Bar **Load Tables**

The following load tables are for the solid bar heavy duty grating designed to take heavy wheel traffic such as forklifts, tow motors and truck traffic. Due to the variety of wheel types and loading, it is recommended that you contact our Customer Service Specialists to determine the series of heavy duty grating needed for your application.



	MS	HD	R-60	15 1	-1/2"	Ht.	Heav	y Du	ty Re	ctan	gula	r Bar	LOAD Table	SAFE LOAD 2:1
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000	SAFETY FACTOR
12"	ΔU	.000	.001	.001	.002	.004	.008	.011	.015	.019	.023	.027	.030	21000
12	\triangle C	.001	.001	.002	.003	.006	.012	.018	.024	.030	.037	.043	.049	21000
18"	ΔU	.002	.003	.005	.008	.016	.031	.047	.063	.079	.094	.110	.126	14000
10	ΔC	.002	.003	.005	.008	.017	.034	.050	.067	.084	.101	.117	.134	14045
0.411	ΔU	.005	.009	.014	.024	.047	.094	.142	.189	.236	.283	.330	.378	10500
24"	ΔC	.004	.008	.011	.019	.038	.076	.113	.151	.189	.227	.264	.302	10500
ວດແ	ΔU	.011	.023	.034	.057	.113	.226	.340	.453	.566	.679			6742
30"	△ C	.007	.014	.022	.036	.072	.145	.217	.290	.362	.435	.507	.580	8427
2611	ΔU	.023	.046	.070	.116	.232	.465	.697						4682
36"	ΔC	.012	.025	.037	.062	.124	.248	.372	.496	.620				7023
4011	ΔU	.043	.086	.128	.214	.428								3440
42"	△C	.020	.039	.059	.098	.195	.391	.586						6019
48"	ΔU	.073	.145	.218	.363									2634
40	△ C	.029	.058	.087	.145	.290	.580							5267
54"	ΔU	.115	.231	.346	.577							Bearin		2080
04	△ C	.041	.082	.123	.205	.410							enter	4682
COII	ΔU	.175	.350	.525										1685
60"	△ C	.056	.112	.168	.280	.560		For Al	l I oad	Table	s on	this Pa	ne	4214
CCII	ΔU	.255	.510									ft of wid	٠	1393
66"	△C	.074	.148	.223	.371		- 1					entrated	load	3830
70"	ΔU	.359	.719						niform I eflection			m load		1170
72"	△ C	.096	.192	.288	.479			O 13 UC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		uninoi	111 1000		3511

	MS	HD F	R-601	17 1·	-3/4"	Ht.	Heavy	/ Dut	y Re	ctang	ular	Bar	LOAD TABLE	SAFE LOAD 2:1
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000	SAFETY FACTOR
<mark>12"</mark>	ΔU	.000	.000	.001	.001	.002	.004	.007	.009	.011	.013	.015	.018	42000
12	△ C	.000	.001	.001	.002	.004	.007	.011	.014	.018	.021	.025	.028	32668
4 011	ΔU	.001	.002	.003	.005	.011	.021	.032	.043	.053	.064	.075	.085	28000
18"	△ C	.001	.002	.003	.006	.011	.023	.034	.046	.057	.068	.080	.091	21800
0.411	ΔU	.003	.006	.010	.016	.032	.064	.096	.128	.160	.192	.224	.256	16334
24"	△ C	.003	.005	.008	.013	.026	.051	.077	.103	.128	.154	.179	.205	16334
2011	ΔU	.008	.015	.023	.038	.076	.152	.228	.304	.380	.455	.531	.607	10454
30"	△ C	.005	.010	.015	.024	.049	.097	.146	.194	.243	.292	.340	.389	13067
o CII	ΔU	.015	.030	.045	.075	.151	.302	.453	.604	.755	.906	1.057	1.208	7260
36"	△ C	.008	.016	.024	.040	.081	.161	.242	.322	.403	.483	.564	.644	10889
4011	ΔU	.028	.055	.083	.138	.275	.551							5334
42"	△ C	.013	.025	.038	.063	.126	.252	.378	.503	.629				9334
4011	ΔU	.046	.093	.139	.232	.465								4084
48"	△ C	.019	.037	.056	.093	.186	.372	.558						8167
54 "	ΔU	.074	.147	.221	.368	.737						Bearin	g Bars d 1.50"	3226
04	△ C	.026	.052	.079	.131	.262	.524				'	on C		7260
COII	ΔU	.111	.222	.333	.555									2613
60"	△ C	.036	.071	.107	.178	.355								6534
CCII	ΔU	.161	.322	.483										2160
66"	△ C	.047	.094	.141	.234	.469								5940
7011	ΔU	.226	.452	.678						Infor	matio	n is av	ailable	1815
72 "	△ C	.060	.121	.181	.301	.603				al	bout l	onger	spans.	5445

	MS	HD R	-602	0 2'	Ht.	Heav	vy Du	ity R	ectan	gula	r Bai	r	LOAD TABLE	SAFE LOAD 2:1
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000	SAFETY FACTOR
<mark>12"</mark>	△U	.000	.000	.001	.001	.002	.003	.005	.007	.009	.010	.012	.014	48000
12	\triangle C	.000	.001	.001	.001	.003	.005	.008	.011	.014	.016	.019	.022	42667
<mark>18"</mark>	ΔU	.001	.002	.002	.004	.008	.015	.023	.030	.038	.046	.053	.061	32000
10	△ C	.001	.002	.002	.004	.008	.016	.024	.033	.041	.049	.057	.065	28445
<mark>24"</mark>	△U	.002	.004	.007	.011	.022	.044	.066	.088	.109	.131	.153	.175	21334
24	\triangle C	.002	.004	.005	.009	.018	.035	.053	.070	.088	.105	.123	.140	21334
<mark>30"</mark>	△U	.005	.010	.015	.025	.050	.100	.151	.201	.251	.301	.351	.402	13654
JU	△ C	.003	.006	.010	.016	.032	.064	.096	.129	.161	.193	.225	.257	17067
<mark>36"</mark>	ΔU	.010	.020	.030	.050	.101	.202	.302	.403	.504	.605	.706		9482
30	△ C	.005	.011	.016	.027	.054	.108	.161	.215	.269	.323	.376	.430	14223
<mark>42"</mark>	ΔU	.019	.037	.056	.093	.186	.372	.557	.743					6966
42	△ C	.008	.017	.025	.042	.085	.170	.255	.340	.425	.510	.594	.679	12190
48"	ΔU	.032	.063	.095	.158	.315	.630							5333
40	△ C	.013	.025	.038	.063	.126	.252	.378	.504	.630				10667
54 "	ΔU	.050	.101	.151	.252	.504						Bearing Spaced		4214
54	△ C	.018	.036	.054	.090	.179	.358	.538				on Ce		9482
<mark>60"</mark>	△U	.077	.153	.230	.383									3413
OU	△ C	.025	.049	.074	.123	.245	.491							8534
66"	ΔU	.112	.224	.336	.559									2821
00	△C	.033	.065	.098	.163	.326	.651							7758
<mark>72"</mark>	ΔU	.158	.316	.474	.790					Infor	matio	ı is ava	ailable	2370
12	△C	.042	.084	.126	.211	.421				al	out lo	onger s	spans.	7111

	MSI	HD F	R-602	22 2-	1/4"	Ht. I	leavy	Duty	Rec	tang	ular	Bar	LOAD TABLE	SAFE LOAD 2:1 SAFETY
SPAN	LOAD	100	200	300	500	1000	2000	3000	4000	5000	6000	7000	8000	FACTOR
12"	∆ U	.000	.000	.000	.001	.001	.003	.004	.005	.007	.008	.009	.011	54000
12	△ C	.000	.000	.001	.001	.002	.004	.006	.009	.011	.013	.015	.017	54000
4 011	ΔU	.001	.001	.002	.003	.006	.012	.017	.023	.029	.035	.041	.046	36000
18"	△c	.001	.001	.002	.003	.006	.012	.019	.025	.031	.037	.043	.050	36000
0.411	ΔU	.002	.003	.005	.008	.016	.032	.048	.064	.080	.096	.112	.128	27000
24"	△ C	.001	.003	.004	.006	.013	.026	.038	.051	.064	.077	.089	.102	27000
0011	ΔU	.004	.007	.011	.018	.036	.072	.107	.143	.179	.215	.250	.286	17280
30"	△ C	.002	.005	.007	.011	.023	.046	.069	.092	.114	.137	.160	.183	21600
a CII	ΔU	.007	.014	.021	.036	.071	.143	.214	.285	.357	.428	.500	.571	12000
36"	△ C	.004	.008	.011	.019	.038	.076	.114	.152	.190	.228	.266	.305	18000
4011	ΔU	.013	.026	.039	.066	.131	.262	.393	.524	.655				8816
42"	△ C	.006	.012	.018	.030	.060	.120	.180	.240	.300	.359	.419	.479	15428
4011	ΔU	.022	.044	.066	.110	.220	.440	.660						6750
48"	△ C	.009	.018	.026	.044	.088	.176	.264	.352	.440	.528	.616		13500
E AII	ΔU	.035	.070	.105	.176	.351						Bearing		5333
54"	△ C	.012	.025	.037	.062	.125	.250	.375	.500	.624	١	paced on Ce		12000
COII	ΔU	.053	.107	.160	.267	.534								4320
60"	△ C	.017	.034	.051	.085	.171	.341	.512	.683					10800
CCII	ΔU	.078	.155	.233	.389									3570
66"	△ C	.023	.045	.068	.113	.226	.452	.678						9818
7011	ΔU	.110	.219	.329	.548					Inform	natio	ı is ava	ilable	3000
72 "	△ C	.029	.058	.088	.146	.292	.585					onger s		9000

Skid Resistant

High Strength

Lightweight

Corrosion Resistant

Cost Effective

Easy to Install

Impact Resistant

Custom Colors/Finishes

CONSTRUCTION/MATERIAL: Pultruded fiberglass polyester

THICKNESSES/WEIGHTS:

1/8" - 1.41#SF **STOCK** 3/16" - 1.71#SF SPECIAL 3/4" - 6.94#SF SPECIAL 1/4" - 2.34#SF **STOCK** 3/8" - 3.54#SF SPECIAL

SIZE: 4' x 8' planks

RESIN: SPF **COLOR:** Gray solid floor plate

1/2" - 4.68#SF SPECIAL 5/8" - 5.79#SF SPECIAL

- 9.27#SF SPECIAL

SURFACE: Fine grit (standard) medium or coarse grit (optional) Non-grit available by special order!

Information for chemical resistance is available—ask us!

McNICHOLS® fiberglass gritted plate is a tough, corrosion resistant floor plate. A unique combination of pultruded fiberglass plate and anti-skid grit surface provides a textured solid sheet flooring that is ideal for both wet and dry environments. Used in a variety of applications, such as trench covers to contain vapors and fumes, or pedestrian bridge walkways for sure footing, McNICHOLS® floor plate provides a long lasting maintenance free alternative to steel plate for severe, corrosive environments.

Our website mcnichols.com has even more information!

For All Load Tables on this Page

- C Is concentrated load lbs/ft of width
- ∧ C Is deflection under concentrated load. U Is uniform load lbs/ft2
- △ U Is deflection under uniform load

		Pultruded Fiberglass	
Many thicknesses available by special order. Floorplate bonded to grating—ask us!	Many thicknesses available by special order.	rating—ask us!	

Fiberglass Floor Plate

Mc	MCNICHOLS® Floor Plate SPAN = Lengthwise Direction										
Thick	Span		18"	24"	30"	36"	42"	48"	54"	60"	
1/4"	c c n	167 .120 104 .120	34 .125 32 .125	.125 .14 .125			is spa	nning in c	ads when rosswise ble values	direc-	
3/8"	∇ C O O	562 .120 351 .120	167 .180 156 .180	55 .188 69 .188	23 .188 .35 .188	.188 20 .188	thickn	esses sho	d .70 for a own here. values ar		
1/2"	U △ U △ C	1333 .120 833 .120	370 .180 370 .180	167 .240 209 .240	71 .250 111 .250	34 .250 65 .250	18 .250 40 .250	.250 27 .250			
5/8"	U △ U △ C	2600 .120 1622 .120	768 .180 723 .180	326 .240 407 .240	167 .300 260 .300	.312 157 .312	45 .312 99 .312	27 .312 66 .312	17 .312 47 .312	.312 .34 .312	
3/4"	U △ U C △ C	4499 .120 2804 .120	1333 .180 1250 .180	563 .240 702 .240	288 .300 450 .300	167 .360 313 .360	94 .375 205 .375	55 .375 138 .375	34 .375 97 .375	22 .375 71 .375	
1"	U △ U △ C	10,677 .120 6667 .120	3158 .180 2956 .180	1333 .240 1667 .240	682 .300 1068 .300	396 .360 740 .360	248 .420 544 .420	167 .480 416 .480	108 .500 305 .500	71 .500 222 .500	



The Fiberglass Grating used for this stairway is well suited for an outdoor environment.



Pultruded Fiberglass Floor Plate was used to make a durable, low maintenance floor for this popular eatery.



With corrosion resistance, long life and a maintenance free design, Fiberglass T-bar grating was a perfect choice for this attractive deck.

Gratings that meet ADA spacing requirements are noted with this symbol.



Pultruded T-Bar with 1.00" top flange spacing

All grating which requires field cutting should have affected ends sealed with catalyzed resin sealant.

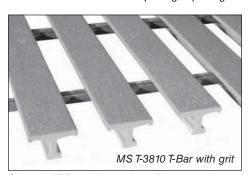
Standard cross rod spacing is 6". Other gratings are available by special order by adjusting the spacing of the bearing bar. Economical 12" cross rod spacing is available on special order for jobs requiring minimum fabrication. Load bearing capability is not affected.



Pultruded T-Bar with .225" top flange spacing



Pultruded T-Bar with .375" top flange spacing



Pultruded T-Bar with .995" top flange spacing

Corrosion Resistant

Fire Retardant

High Longitudinal Strength

Low Maintenance

Maximum Stiffness

Non-Conductive

Impact Resistant

Easy Fabrication

MATERIAL: Pultruded fiberglass shape

made from polyester or

vinyl ester resin matrix T-Bar with perpendicular

cross bars

6" cross bars standard

(12" special)

HEIGHTS: 1", 1-1/2", or 2" WIDTHS: 3', 4' or 5'

PATTERN:

LENGTHS: 8', 10', 12', 20

SPF (stock) Yellow or gray **RESINS/** COLORS: SVF (special) Yellow or gray

SPW White

White - non fire retardant MS T-1810 (special)

SURFACE: With grit LOADING: P. 15

Other resins available, ask us! For Stair Treads, see P. 17

Combining corrosion resistance, long life and a maintenance free design, our fiberglass pultruded T-Bar grating is superior to conventional metals. This advanced grating is also lightweight (half that of steel) and easy to fabricate, making it less expensive to install.

MS T-Bar Series	Bearing Bar Size	Series Number	#/SF	Α	В	С	Open Area
Width B MS T-5010	2.00" x 1.00"	MS T-3320	3.90#	1.50"	.500"	.900"	33%
END Width B MS T-5020	1.00" x 1.00"	MS T-5010	1.60#	2.00"	1.00"	1.625"	50%
He ight	2.00" x 1.00"	MS T-5015	1.90#	2.00"	1.00"	1.400"	50%
E C A	2.00" x 1.00"	MS T-5020 ■	3.00#	2.00"	1.00"	1.400"	50%

■ STOCK A = Center to center of bearing bar B = Spacing between bearing bar top flanges C = Spacing between bearing bar bottom flanges

Wide I	MS T-Bar S	eries	Bearing Bar Size	Series Number	#/SF	A	В	С	Open Area
1. W	idth B	MS T-1210 MS T-1810	1.00" x 1.625" 🖶	MS T-1210 ■	2.79#	1.85"	.225"	1.35"	12%
Height	ر هذا		1.50" x 1.625" &	MS T-1215	3.40#	1.85"	.225"	1.35"	12%
END		A	1.00" x 1.625" 🖶	MS T-1810 ■	2.60#	2.00"	.375"	1.50"	18%
VIEW	idth , B ,	MS T-3810	1.00" x 1.625" 🕾	MS T-2510	2.50#	2.12"	.495"	1.50"	25%
Height	وشد	MS 1-3810	1.00" x 1.625"	MS T-3810 ■	2.10#	2.62"	.995"	1.62"	38%
±1	C	A	1.50" x 1.625"	MS T-3815	2.53#	2.62"	.995"	2.12"	38%

STOCK A = Center to center of bearing bar B = Spacing between bearing bar top flanges C = Spacing between bearing bar bottom flanges

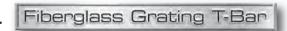


Pultruded T-Bar was easily field cut to make this corrosion resistant railroad walkway.



Fiberglass Grating was used to make a strong, slip resistant walkway for this outdoor setting.

Load Tables Pultruded T-Bar



	MS	T-12	10 1"	Bear	ing E	Bars S	aced	1.85	" on	Cente	r load	TABLE	SAFE LOAD 2:1 SAFETY
SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	FACTOR
4011	ΔU	.002	.004	.006	.008	.010	.016	.021	.042	.052	.062	.083	11546
12"	ΔC	.003	.007	.010	.013	.017	.025	.033	.067	.083	.100	.133	5773
4 011	ΔU	.010	.019	.029	.038	.048	.072	.096	.192	.240	.288	.383	5131
18"	ΔC	.010	.020	.031	.041	.051	.077	.102	.204	.256	.307	.409	3849
0.411	ΔU	.029	.057	.086	.114	.143	.215	.286	.572				2887
24"	ΔC	.023	.046	.069	.092	.114	.172	.229	.458	.572			2887
2011	ΔU	.066	.133	.199	.266	.332	.498	.664					1830
30"	ΔC	.042	.085	.127	.170	.212	.319	.425					2288
ocu.	ΔU	.134	.267	.401	.535	.668							1251
36"	ΔC	.071	.143	.214	.285	.356	.535						1877
4011	ΔU	.238	.476										901
42"	△C	.109	.217	.326	.435	.543							1576
400	ΔU	.398											676
48"	ΔC	.159	.319	.478	.637								1351

	MS	T-18	10 1"	Bear	ing E	Bars S	Spaced	2.00)" on	Center	LOAD	TABLE	SAFE LOAD 2:1 SAFETY
SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	FACTOR
12"	ΔU	.002	.004	.007	.009	.01	.017	.022	.045	.056	.067	.090	10680
12	ΔC	.004	.007	.011	.014	.018	3 .027	.036	.072	.090	.108	.144	5340
18"	ΔU	.010	.021	.031	.041	.052	2 .078	.104	.207	.259	.311	.415	4746
10	ΔC	.011	.022	.033	.044	.05	.083	.111	.221	.277	.332	.442	3560
0.411	Δυ	.031	.062	.093	.124	1 .15	.232	.310	.619				2670
24"	ΔC	.025	.050	.074	.099	.124	1 .186	.248	.495	.619			2670
2011	ΔU	.072	.144	.215	.287	7 .359	.539	.718					1693
30"	ΔC	.046	.092	.138	.184	.230	.345	.460					2116
2611	ΔU	.145	.289	.434	.578	3 .723	3						1157
36"	ΔC	.077	.154	.231	.308	.385	.578						1736
4011	ΔU	.257	.514										833
42"	△C	.118	.235	.353	.470	.588	3						1458
4011	ΔU	.431											625
48"	ΔC	.172	.345	.517	.689	9							1250

						_				_			
	MS	T-38	10 1"	Bear	ing B	ars S _I	paced	2.62	" on	Center	LOAD		SAFE LOAD 2:1 SAFETY
SPAN	LOAD	100	200	300	400	500	750	1000	2000	2500	3000	4000	FACTOR
4011	ΔU	.003	.006	.009	.012	.015	.022	.029	.059	.074	.088	.118	8137
12"	ΔC	.005	.009	.014	.019	.024	.035	.047	.094	.118	.141	.188	4069
4 011	ΔU	.014	.027	.041	.054	.068	.102	.136	.271	.339	.407	.542	3616
18"	ΔC	.014	.029	.043	.058	.072	.108	.145	.289	.362	.434	.579	2712
0.411	Δυ	.040	.081	.121	.162	.202	.304	.405					2034
24"	ΔC	.032	.065	.097	.130	.162	.243	.324	.648				2034
2011	ΔU	.094	.188	.282	.376	.470							1290
30"	ΔC	.060	.120	.180	.240	.300	.451	.601					1612
O CII	ΔU	.189	.378	.567									882
36"	ΔC	.101	.202	.302	.403	.504							1323
4011	ΔU	.336	.673							·			635
42"	ΔC	.154	.308	.461	.615								1111
4011	ΔU	.563											476
48"	ΔC	.225	.451	.676									952

For All Load Tables on this Page

- C Is concentrated load lbs/ft of width
- \triangle C Is deflection under concentrated load
 - U Is uniform load lbs/ft2
- \triangle U Is deflection under uniform load



	MS	T-5010	1" Bea	ring Bai	rs Spac	ed 2.00 ^t	' on Ce	enter	LOAD TABLE	SAFE LOAD 2:1 SAFETY
SPAN	LOAD	100	200	300	400	500	750	1000	2000	FACTOR
12"	ΔU	.004	.008	.011	.015	.019	.029	.038	.076	4766
12	ΔC	.006	.012	.018	.024	.031	.046	.061	.122	2383
18"	ΔU	.019	.037	.056	.075	.094	.140	.187	.374	2144
10	ΔC	.020	.040	.060	.080	.100	.150	.200	.399	1609
24"	ΔU	.057	.114	.171	.228	.286	.428	.571		1221
24	ΔC	.046	.091	.137	.183	.228	.343	.457		1221
30"	ΔU	.135	.270	.406	.541	.676				791
JU	ΔC	.087	.173	.260	.346	.433	.649			989
2611	ΔU	.272	.544							556
36"	ΔC	.145	.290	.435	.580	.726				834
42"	ΔU	.488					-	-		413
42	△C	.223	.446	.670						723

	MS	T-5()20	2" B	earir	ng Ba	ars S	Spac	ed 2	2.00'	' on	Cent	er	LOAD T	ABLE	SAFE LOAD 2:1 SAFETY
SPAN	LOAD	100	200	300	400	500	750	1000	2000	3000	4000	5000	6000	7000	8000	FACTOR
12"	ΔU	.000	.001	.001	.001	.002	.003	.004	.007	.011	.014	.018	.021	.025	.028	11333
12	ΔC	.001	.001	.002	.002	.003	.004	.006	.011	.017	.023	.028	.034	.040	.045	5666
4011	ΔU	.002	.003	.005	.007	.009	.013	.017	.035	.052	.070	.087	.104	.122	.139	7536
18"	ΔC	.002	.004	.006	.007	.009	.014	.019	.037	.056	.074	.093	.111	.130	.148	5666
0.411	ΔU	.005	.011	.016	.021	.027	.040	.054	.107	.161	.214	.268	.321	.375	.429	5666
24"										.129						5666
	ΔU	.013	.026	.038	.051	.064	.096	.128	.256	.384	.512	.640				3626
30"	-									.246			.491	.573	.655	4534
	A 11	026	052	.078	104	130	105	260	520							2519
36"										.416	555	694				3778
				.142					,,		.000	.001				1850
42"		-		.065					433	650						3238
	_			.238					. 100	.000						1417
48"	_			.095				317	634							2834
				.374												1120
54"				.133			333	444								2519
				.563			.000									907
60"				.180		300	450	601								2267
				.100	.240	.000	.400	.001								749
66"				.237	216	205	502									2060
			.100	.231	.010	.383	.080									
72"	ΔU		000	004	405	F07										629
			.203	.304	.405	.507				ΓE: WI						1889
78"	ΔU								is pl	square aced (upon a	a 64" :	simple	э		536
	ΔC	.128	.256	.384	.512	.640				n, it wi of 1/4				ec-		1744
84"	ΔU								LIOIT	01 1/4	at III	шэра				463
JT	\triangle C	.158	.317	.475	.634											1619

This guard fence was constructed of Molded Fiberglass Grating, making an attractive and weatherresistant barrier.



SAFPLANK Fiberglass Plank

Easy Installation

Strong, yet Lightweight

Non-Sparking

Interlocking

Corrosion Resistant

Low In Conductivity

MATERIAL:

Pultruded composite of fiberglass reinforcements (glass and mat) and a UV inhibited

thermoset resin system.

PATTERN: Interlocking planks

HEIGHT: WIDTHS: 12", 24" LENGTHS: 20', 24'

The spacing between legs of 24" wide SAFPLANK is 3.98".

WEIGHTS:

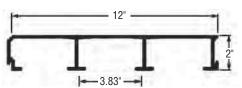
12" solid - 2.6 lb./lin. ft. 24" solid - 5.1 lb./lin.ft.

12" slotted - 2.5 lb./lin.ft. 24" slotted - 4.8 lb./lin.ft.

RESIN/COLOR: SPF - Slate Gray

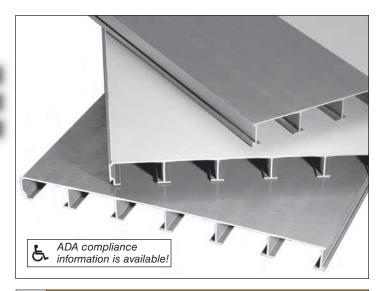
Grit; non-grit avail. (special) SURFACE:

SAFPLANK® is a high strength system of fiberglass planks designed to interlock to form a continuous solid surface. It is intended to replace wood, aluminum or steel planks in environments where corrosion or rotting creates costly maintenance problems or unsafe conditions.





A slotted surface is available. Slots are 7/16" wide x 1.83" long. Slots meet ADA requirements as long as they run perpendicular to "the direction of the traffic."



	SAF	PLA	VK®	Loa	d/De	flec	tion	Data				
SPAN		-	12" S	AFPL	ANK®)			24" S	AFPL	ANK®	
		50	100	200	300	500	1000	100	200	300	500	1000
24"	ΔU		.011		.034			.015	.030	.045	.075	.151
24	\triangle C	<.005	.009	.018	.027	.045	.091	.012	.024	.036	.060	.121
36"	ΔU		.043				_	.046	.092		.231	_
30	\triangle C	.012	.023	.046	.070	.116	.232	.024	.049	.074	.123	.246
48"	ΔU	.062	.123	.247	.370	_	_	.133	.265	.398	_	_
40	\triangle C	.025	.049	.099	.148	.247	.494	.053	.106	.159	.265	_
60"	ΔU	.140	.281	.562	_	_	_	.302	.605	_	_	_
UU	\triangle C	.045	.090	.180	.270	.450	_	.097	.193	.290	.484	_
72"	ΔU	.291	.583	_	_	_	_	.627	_	_	_	_
12	△C	.078	.155	.311	.466	_	_	.167	.334	.501	_	_

△ U = Typical deflection under uniform load in inches

△ C = Typical deflection under concentrated load in inches

For slotted SAFPLANK®, divide the deflection values by .95.

SAFDECK Fiberglass Decking



SPAN	SAF	DECK	(® Lo	ad/D	efle	ction	Data	
JI AN		25	50	60	75	100	200	300
24"	△C	.015 .012	.030 .023	.036 .029	.044 .036	.059 .048	.119 .096	.179 .143
36"	VC	.063 .032	.126 .064	.151 .081	.189 .101	.252 .134	 .269	_
48"	△U	.215 .073	.430 .147	.206	 .257	.— .343	_	=

 $\triangle U$ = Typical deflection under uniform load in inches △ C = Typical deflection under concentrated load in inches

Information about spacing between legs of SAFDECK® is available.

Low In Conductivity **Corrosion Resistant** Non-Sparking Overlapping

MATERIAL: Pultruded composite of fiberglass reinforcements

(glass and mat) and UV inhibited thermoset

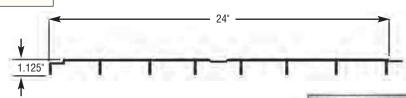
PATTERN: One-piece overlapping decking system

HEIGHT: 1.125" WIDTHS: 24" LENGTHS: 20', 24'

24" - 4.1 lb./lin.ft. WEIGHTS: RESIN/COLOR: SPF - Slate Gray

SURFACE: Grit; available non-grit (special)

SAFDECK® is a system of 24" wide fiberglass planks designed to overlap for a continuous solid surface. It is intended to replace wood, aluminum or steel decking in environments where corrosion or rotting creates costly maintenance or unsafe conditions. Low in conductivity and nonsparking, SAFDECK® provides safe walkways in applications near electrical lines. Other resins and colors are available upon request.



NOTE: Since fiberglass grating will not provide lateral stiffness for stairs, struts or bracing should be provided on bottom flange of stringers. .25" deflection is recommended as the maximum to provide pedestrian comfort, which can be exceeded at the discretion of the engineer.

Pultruded



McNICHOLS® Pultruded I- or T-Bar Treads

MATERIAL: Pultruded polyester

SPF **RESIN:** 1" or 1-1/2" I-Bar

HEIGHT: 2" T-Bar only COLORS: Yellow or green **SURFACE:** Gritted or

WIDTHS: I-Bar 11" T-Bar 12"

non-grit

Max	Span for	300 at	Mids	pan

Style	1/8" Deflection or less	1/4" Deflection or less
MS I-6010-T	29"	37"
MS I-6015-T	40"	52"
MS T-5020-T	47"	59"

Nosings for Stair Treads and Landings

Stair treads and landing are produced by attaching a 2" deep nosing to the leading edge. This gives added strength and rigidity to the area that takes impact and abuse. In addition, the nosing provides more surface area for skid resistance, wear and better visibility. Gray stair treads with yellow nosing are available at additional cost.





Fiberglass Stair Treads & Covers

NOTE: When maximum span is based on 300 lbs. at mid-span and deflection is restricted to 1/8", span should not exceed 31". For 1/4" deflection, tread span may be a maximum length of 38".

McNICHOLS® Molded Rectangular Tread

MATERIAL: Molded polyester resin

MESH: 1-1/2" x 6"

RESIN:

SGF

HEIGHT: 1-1/2"

Ask us about other resins.

WIDTHS: 7-5/8", 9-1/8", 10-5/8"

COLOR: Gray, Green

LENGTHS: 12", 18", 24", 30",

SURFACE: Grit

36", 42" Information on full panels is available.

OPEN AREA: 67%

McNICHOLS® Molded Stair Tread Covers

MATERIAL: Molded

fiberglass mat

9", 10"

THICKNESS: 1/8" LENGTHS: 12'

WIDTH:

RESIN: SGF

COLOR: Gray with

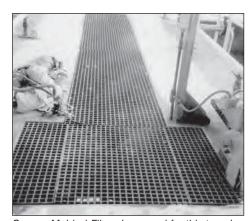
yellow nosing

SURFACE: Grit

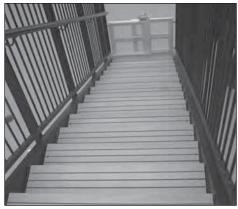
We have information on chemical resistance.



Pultruded Fiberglass Grating provides a safe walkway.



Square Molded Fiberglass used for this trench covering allows drainage.



Pultruded Fiberglass Wide T-Bar Grating was used on this stairway and platform assembly.



McNICHOLS Polycast. Presloped Trench Drain System

See www.mcnichols.com for Installation and Usage Instructions!

Chemical Resistant

Low Water Absorption

Easy to Install

High Durability

High Strength

CONSTRUCTION/MATERIAL:

Polymer concrete, a high strength, chemical resistant, closed cell material.

20' Run (450#) Includes:

- 5 48" Presloped Channel Sections
- 10 Slotted Cast Iron Grates
- 11* Grating Locking Devices
- 7* Installation Alignment Chairs
- 1 Outlet End Cap
- 1 Inlet End Cap

Sold in kits only.

40' Run (900#) Includes:

- 10 48" Presloped Channel Sections
- 20 Slotted Cast Iron Grates
- 21* Grating Locking Devices
- 12* Installation Alignment Chairs
- 1 Outlet End Cap
- 1 Inlet End Cap

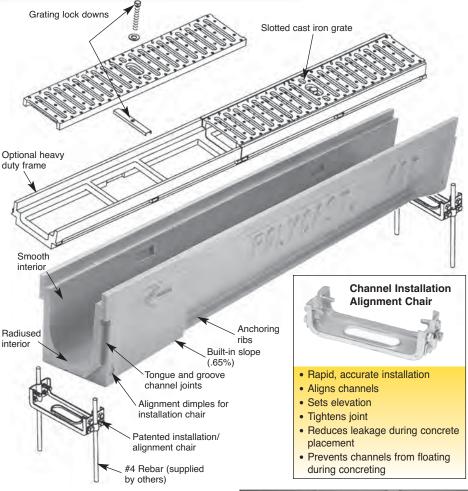
Optional HEAVY DUTY FRAME AVAILABLE-Ask Us!

Polycast_® *presloped* trench drain system is designed for a variety of applications, both indoor and outdoor, commercial and industrial.

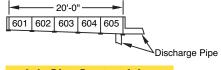
Drain is 4 times stronger than ordinary cement concrete. It is designed to have flow rates equal to, or greater than, most larger poured-in-place trench drains. With the proper components, a flowrate of 840 GPM per outlet is attainable.



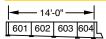




20' Run Application



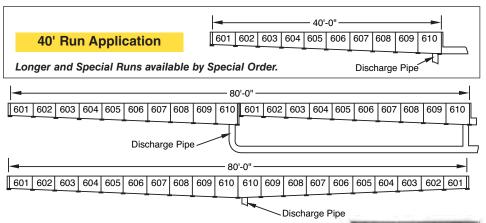
Job Site Customizing



NOTE: Cut 604 channel in half with abrasive saw



The installation/alignment chairs add to the ease of installing the trench drain system.



^{*}Quantities given include one (1) extra item.

Grating Fasteners • Fiberglass Studs and Nuts Fiberglass Curb Angle • Elevated Floor Pedestals

Fiberglass Grating Accessories

Type Z/J Stainless 316 or 304 (1", 1-1/2" or 2") For Molded Fiberglass Grating to secure planks to support frames. No hardware. To order clip and hardware specify Type J. (Type Z has no hardware.)

Type M Stainless 316 (1", 1-1/2" or 2") For Molded Fiberglass Grating to secure planks to support frame using two adjacent bars for support.

Type F Stainless 316 (1", 1-1/2" or 2") For Molded Fiberglass end planks to join side bars that are butted end to end.

Type SSGC Stainless 316 (1", 1-1/2", or 2") For close bar spacings or to hold plate to a structure.

Type MT Stainless steel 316 (1", 1-1/2", or 2") For Pultruded Fiberglass T-Bar Grating to secure planks to support frame using two adjacent bars for support. Please specify bar spacing and height.

Type FSSGF Stainless Steel 316 (specially formed flat bottom, bearing pad facing up to protect Fiberglass member surfaces from puncture. Attach pultruded Fiberglass Grating to Fiberglass structural member. (FSSGG attaches Pultruded Fiberglass Grating to steel members. Does not have flat bearing pad.)

Type SSGG Stainless Steel 316 (available for 1", 1-1/2", or 2" bar height. 3/4" or smaller flange or structural member thickness-please specify requirement) Attach grating to structural shape with horizontal edge. Standard GG clips are for grating with 7/8" to 1" gap between bearing bars (for closer spacing please inquire).

Type CBF Stainless Steel 316 or 304 Fits 1-3/16" bearing bar centers and is used with Pultruded I-Bar Fiberglass Gratings. (Placed over two main bearing bars and screwed to grating support.)

Type RT/RI Stainless Steel 316 (any height) For Pultruded Fiberglass T-Bar or I-Bar Grating, slides between two bars and holds the bottom flange down to support frame. Clip is below walking surface. Please specify bar spacing and bar type.

Information on quantities is available.

FASTENERS



★ Hardware included with fastener. Please inquire for all others. Minimum quantity may apply—please inquire.

Fiberglass Studs and Nuts

Corrosion Resistant

UV Inhibitor

Non-Conductive

Cost Effective

Versatile Color



Typical Applications

Chemical Processing Equipment • Marine Applications Air and Water Pollution Equipment Cellular Antenna Mounts and Screens

MATERIAL: Studs machined from pultruded vinyl ester rods

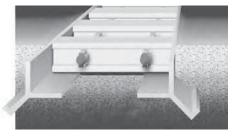
Thermoplastic hex nuts

DIAMETERS: 3/8", 1/2", 5/8" (stock), 3/4", 1" LENGTHS: 4' (bolt length) or custom

COLOR:

Our fiberglass studs and nuts are ideal for applications requiring mechanical fasteners that must be non-corrosive, non-conductive and/or transparent to electromagnetic waves. These studs are machined from pultruded fiberglass vinyl ester rods. The hex shaped nut is thermoplastic. They are easily assembled with a standard six point socket wrench.

The studs and hex nuts are available in diameters of 3/8", 1/2", 5/8", 3/4" and 1". Four foot bolt lengths are standard, with custom lengths and partial length threading available on request. Brown is the standard color. The studs and nuts have UV inhibitors to provide resistance to ultraviolet degradation and corrosion.



Fiberglass Curb Angle

Non-Conductive

Fire Retardant

Long Life

MATERIAL: Pultruded vinyl ester **HEIGHTS:** For Grating Heights of

1", 1-1/2", 2"

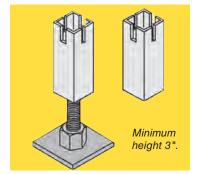
WIDTH:

201 LENGTH: THICKNESS: 1/4" SVF **RESIN:**

COLOR: Gray

Our curb angle has a built-in continuous angle that locks into concrete, eliminating the need for individual anchors. The standard resin is a fire retardant gray vinyl ester. A surfacing veil provides optimum resin performance and wear protection.

Fiberglass curb angle is engineered using a composite of continuous glass fibers, two continuous strand glass mats, a surfacing veil and fire retardant vinyl ester resin. This unique combination produces superior strength, stiffness and long-term corrosion resistance. Curb angle is available in 20' lengths.



Elevated Floor Pedestals

Fixed and adjustable legs for molded grating are available to provide sturdy support for elevated flooring.

More information is available.



Lightweight

Handrail Systems

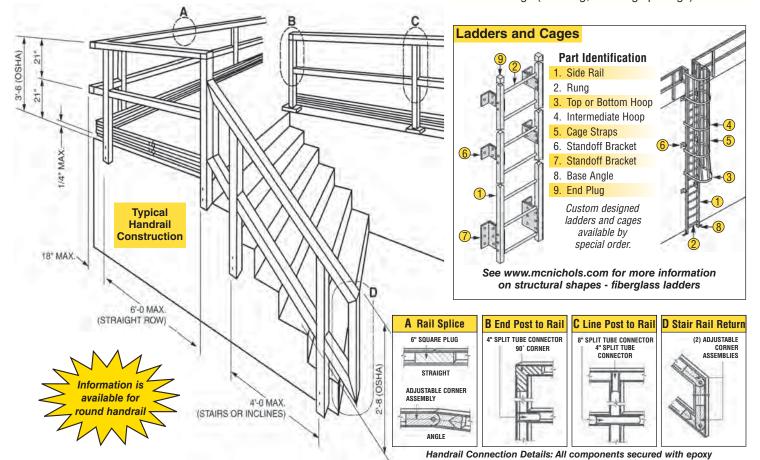
Easy Fabrication

Handrail systems can be made to comply with OSHA standards information is available.

CONSTRUCTION/MATERIAL: Handrail and ladder systems feature pultruded fiberglass posts, rail and rungs made using fire retardant yellow polyester resin system that is UV resistant. End caps, corner assemblies, and other connectors are made of non-fire retardant molded thermoplastic ABS (in various colors); rungs are yellow pultruded fiberglass polyester tube with fluted non-skid surface.

SIZE: Assorted

Rungs (18" rung; 12" rung spacings)



Structurally Sound

