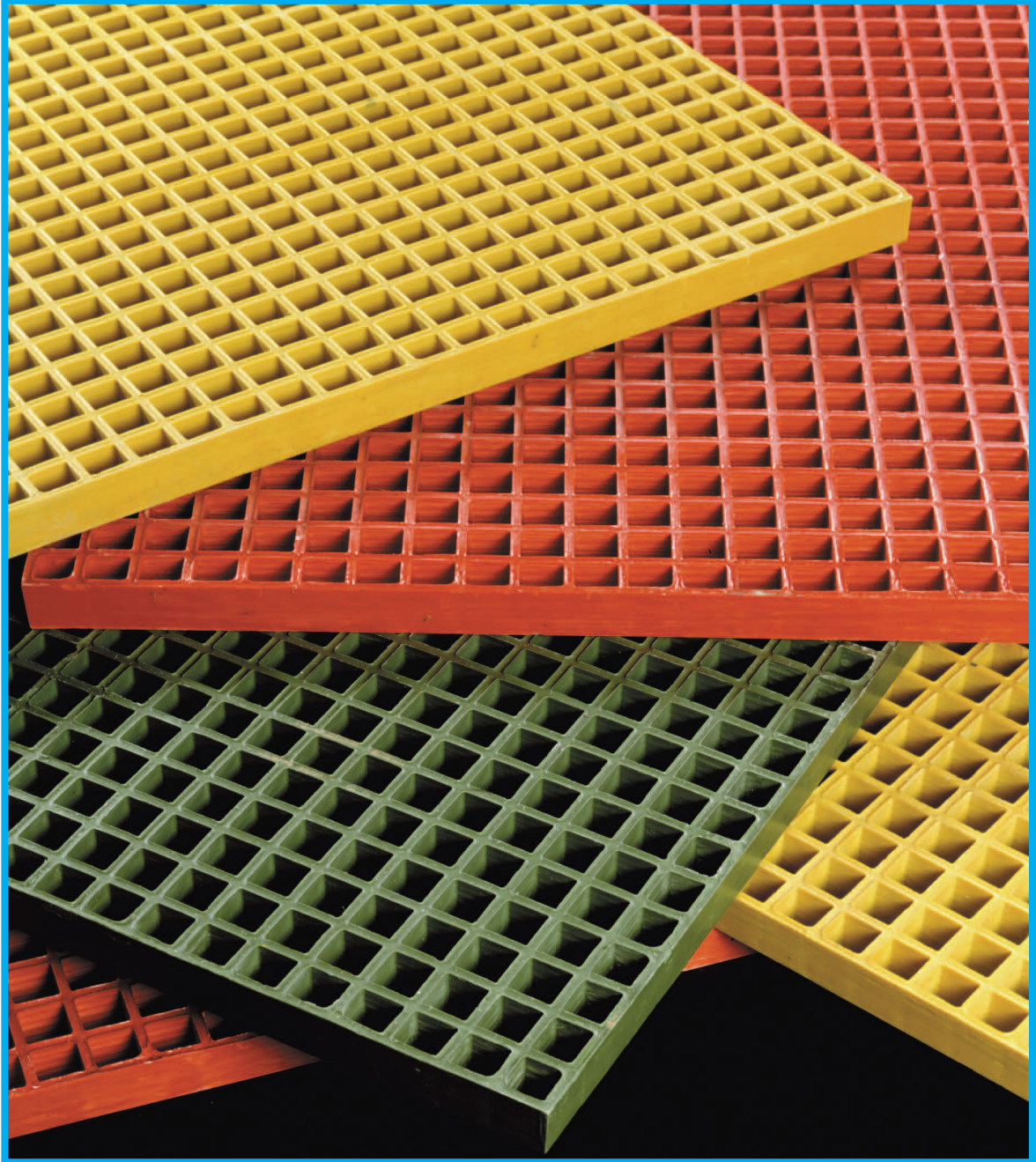
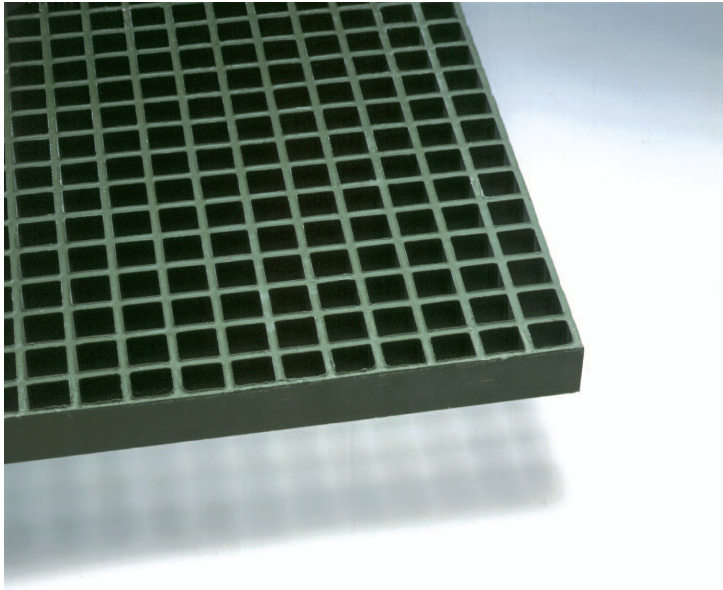


Molded Grating

MFG CONSTRUCTION &
WATER PRODUCTS



MOLDED FIBER GLASS GRATING



The Exide Battery Plant in Manchester, Iowa installed corrosion resistant DURAGRATE® around its tanks of sulfuric acid.

What is DURAGRATE®

DURAGRATE® molded fiber glass grating is a strong mesh grating panel that is the chemical resistant flooring choice for many industrial applications. DURAGRATE® panels are molded in one piece and feature a concave non-slip walking surface. The cost effective panels allow for efficient on-site cutting to minimize grating waste and load bearing bars in both directions allow for use without continuous side support.

DURAGRATE® grating is significantly lighter in weight than metallic gratings and the high resin content (65%) provides long, virtually maintenance free performance. A higher safety factor is achieved by designing in a higher glass content at the bottom of the grating tensile strength.

DURAGRATE® grating is:

- Corrosion Resistant
- Fire Retardant
- Low in Maintenance
- Lightweight
- Easy to Install
- Uniform and Appearance
- Easy to Fabricate
- Impact Resistant
- Low in Conductivity
- Bidirectional; Lead Bearing
- Cost Effective

Materials of Construction

DURAGRATE® grating is composed of fiber glass rovings combined with a choice of five thermo-setting resin systems. All of the resins contain a protective UV inhibitor.

Standard DURAGRATE® grating has a concave profile on the upper surface for skid resistance. Grit tops are available upon request.

Standard Resin Systems Available*

Resin Code	Description	Resin Base	Corrosion Resistance	Flame Spread Rating**	NSF-61 Approval
VE	Chemical Proof Fire Retardant	Vinyl Ester	Excellent	Class 1 25 or less	
NVE	Chemical Proof Fire Retardant	Vinyl Ester	Excellent	Class 1 25 or less	Hot & Cold
XVE	Chemical Proof Fire Retardant	Vinyl Ester	Excellent	Class 1 10 or less	
PP	Industrial Grade Fire Retardant	Isophthalic	Very Good	Class 1 25 or less	
NPP	Industrial Grade Fire Retardant	Isophthalic	Very Good	Class 1 25 or less	Hot & Cold
GP	Architectural Grade Fire Retardant	Orthophthalic	Good	Class 1 25 or less	
FF	Food Grade Fire Retardant	Isophthalic	Very Good	Class 2 30 or less	

Standard Colors are Dark Gray, Green, Yellow, Orange, and Light Gray.

**Flame Spread Rating Per ASTM R-84 Tunnel Test

Technical Data

Shapes, Sizes and Availability

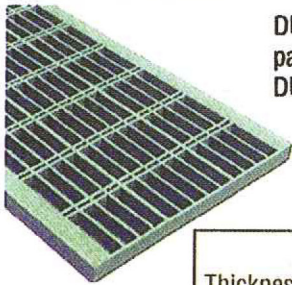
Typical DURAGRATE® Panels		
THICKNESS	MESH PATTERN	PANEL SIZES
1"	1-1/2" Square	3' x 10', 4' x 8', 4' x 12'
1"	1" x 4" Rectangular	3' x 10', 4' x 12'
1-1/2"	3/4" x 3/4" Mini-Grid™	4' x 12'
1-1/2"	1-1/2" x 6" Rectangular	4' x 12'
1-1/2"	1-1/2" Square	3' x 10', 4' x 8', 4' x 12', 5' x 10'
2"	2" Square	4' x 12'

NOTE: All panel sizes available in VE, XVE, PP, GP or FF resin systems. Custom panel sizes and resins available upon request.

How to Specify

The molded fiberglass grating shall be DURAGRATE® as supplied by MFG. Grating panels shall be (pick one from chart for thickness, mesh pattern, resin code) molded grid pattern. The grating shall be one-piece construction with the tops of the bearing bars and cross bars in the same plane. Color shall be (green) (orange) (yellow) (dark gray) (light gray). Surface shall be (concave top) (gritted).

Stair Treads

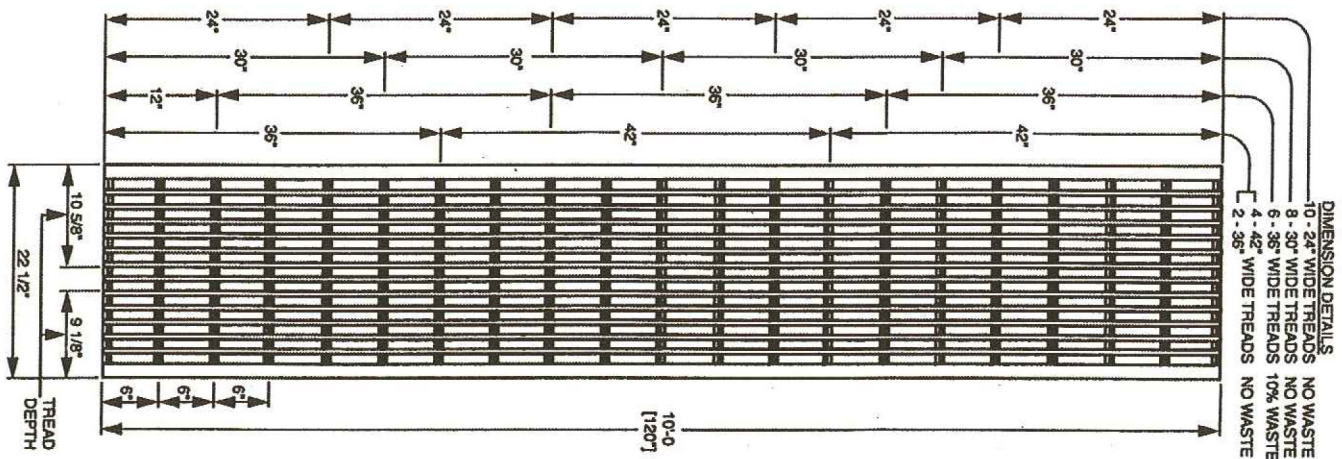


DURAGRATE® molded fiberglass stair treads are available in a 1-1/2" thick 1-1/2" x 6" rectangular mesh pattern. The standard panel size is 22-1/2" x 10'. Stair treads can be produced in any of the standard DURAGRATE® resin systems. The stair tread panel comes complete with anti-slip nosing.

DURAGRATE® Stair Tread

Thickness	Mesh	Panel Size	Maximum Span for 300 lbs. at Mid-Span		Panel Weight	Open Area
			1/8" or less deflection	1/4" or less deflection		
1-1/2"	1-1/2" x 6"	22-1/2" x 10'	31"	38"	60 lbs.	67%

Stair Tread Panel Cutting Diagram

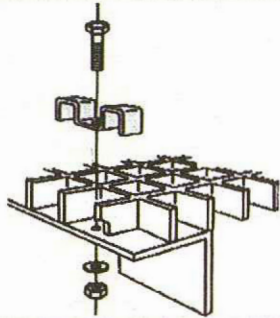


Accessories

Panel Installation

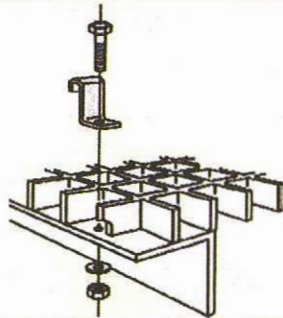
Type M Clips

For attaching grating to supports.



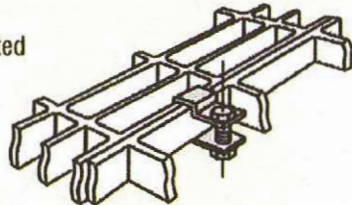
Type J Clips

For attaching grating to supports for moderate loads.



Type C Clips

For joining two unsupported edges if needed.



Sealing Kits

To maintain corrosion resistance and structural integrity, standard resin sealing kits are available to protect the exposed ends of cut panels and other components.

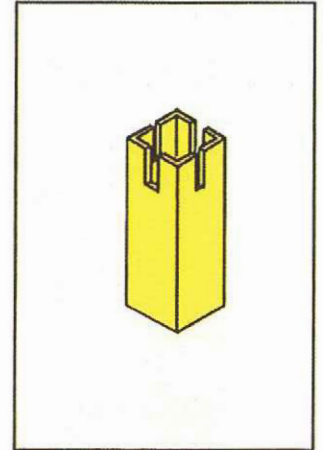
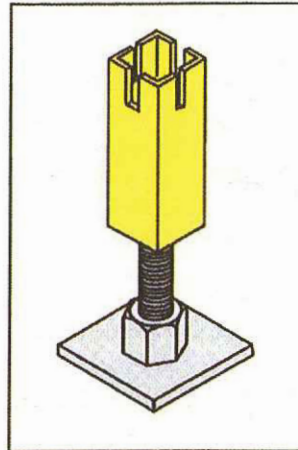
Solid Surface

DURAGRATE® is available with an integral cover bonded to the top surface with a slip resistant grit surface.



Elevated Floor System

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



Curb Angle

Pultruded fiberglass Curb Angle provides a strong, firm base for bearing bars. Standard Curb Angle is produced using a gray, fire retardant vinyl ester resin system and is available in three sizes.

