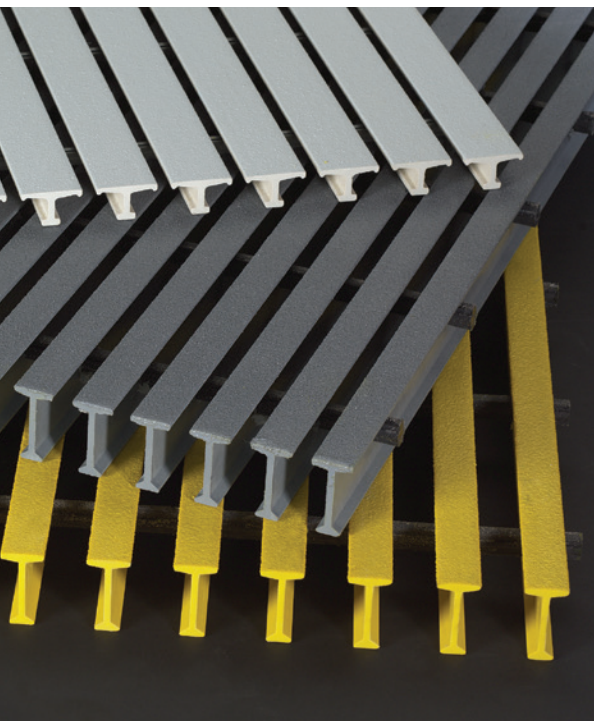
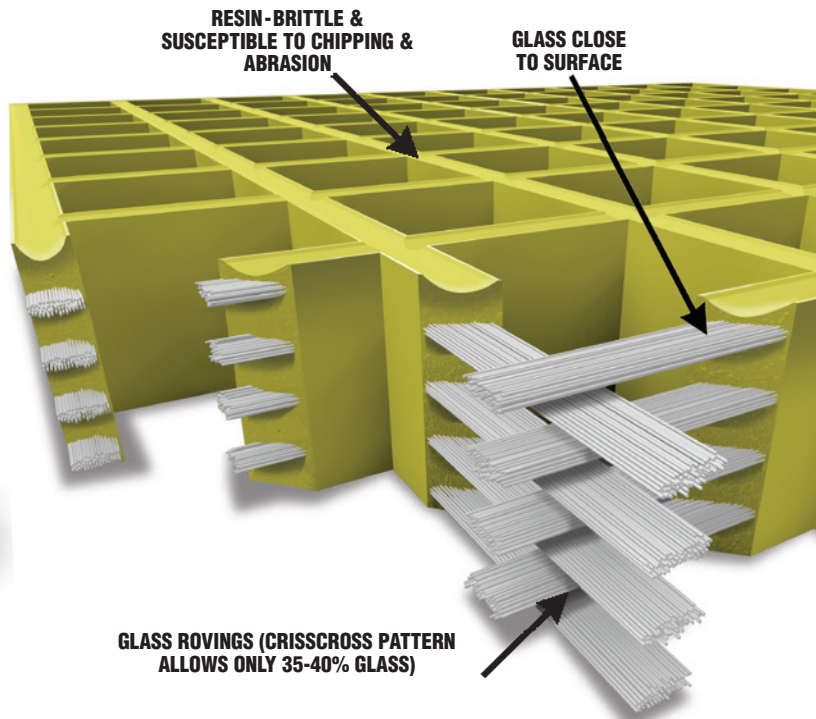
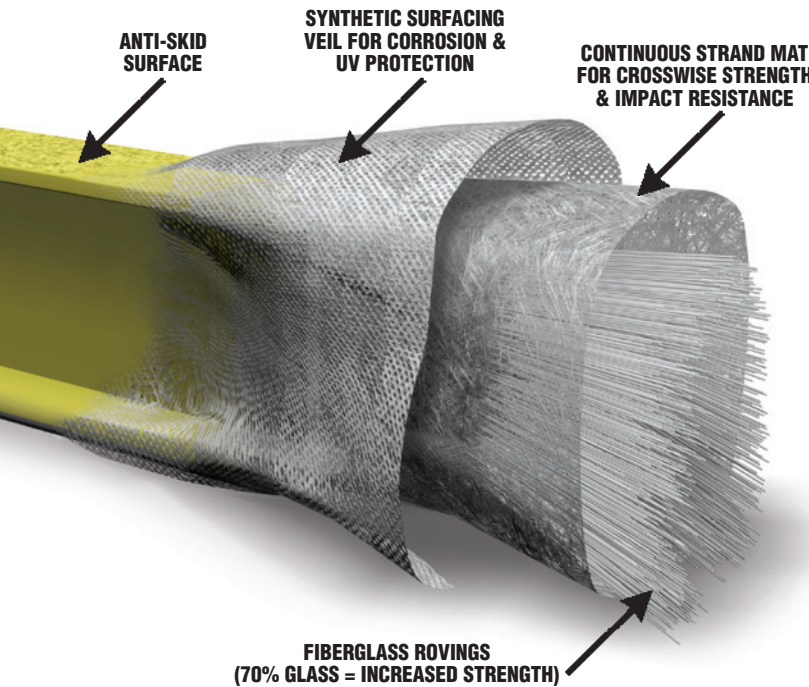


# COMPARE

## DURADEK® PULTRUDED GRATING

vs.

## MOLDED GRATING



Strongwell combines superior raw materials, composite design, and the pultrusion process to manufacture DURADEK®—the highest quality pultruded fiberglass grating available.

### DURADEK® pultruded grating offers superior:

- **STRENGTH** — 2 to 3 times stronger than molded grating
- **IMPACT RESISTANCE** — High ultimate strength prevents impact damage
- **CORROSION RESISTANCE** — Resists most acids, caustics and salts
- **SAFETY** — Low electrical conductivity, non-skid surface

### In addition, DURADEK® is:

- **VERSATILE**
  - **EASILY FIELD FABRICATED**
  - **FIRE RETARDANT** — Meets requirements of Class 1 rating of 25 or less per ASTM E-84 and the self-extinguishing requirement of ASTM D-635
- DURADEK® contains **UV INHIBITORS** and can be custom manufactured in special **COLORS**.

For more DURADEK® design information, visit [www.strongwell.com/designmanual](http://www.strongwell.com/designmanual) for the online Strongwell Design Manual!

*Is DURADEK® the best material choice to meet the requirements of your application?  
Turn over to compare the features of DURADEK® pultruded grating and molded grating!*

**COMPARE!****DURADEK®  
PULTRUDED GRATING****VS.****MOLDED  
GRATING**

<b>STRENGTH</b>	<p>DURADEK® is an engineered composite containing 65-70% glass. Higher glass content increases strength in composites.</p> <p>"I" and "T" bearing bar shapes in pultruded grating are more efficient in strength-to-weight ratio.</p>	<p>Because of cross-pattern interference, molded grating contains only 35-40% glass.</p> <p>All molded gratings have square or rectangular bearing bar shapes.</p>
<b>IMPACT RESISTANCE</b>	<p>DURADEK® contains glass mat which distributes impact loads to prevent surface damage and provides good transverse strength.</p>	<p>Molded grating does not contain glass mat and is primarily made of resin, which is more brittle and susceptible to chipping and abrasion.</p>
<b>CORROSION RESISTANCE</b>	<p>DURADEK®, with its polyester resin, is resistant to corrosion caused by a broad range of acids, caustics and salts.”</p> <p>The pultrusion process precisely controls the alignment of glass fibers and the surfacing veil pushes the glass rovings away from the surface for a smooth, void-free, 100% resin-rich surface to protect the product from corrosion.</p>	<p>Molded grating has more resin content, but veils and mats are not used in the process.</p> <p>The molding process does not precisely control placement of glass. Rovings are allowed near the surface, where there is little resin cover.</p> <p>The molding process results in trapped air which causes voids — exposing grating directly to chemical attack.</p>
<b>SAFETY</b>	<p>DURADEK® has a round silica grit bonded to the surface of bearing bars for an excellent non-skid surface.</p>	<p>Molded grating usually comes either with no grit surface or with an angular, sharp grit surface which can chip easily and break off.</p>
<b>VERSATILITY</b>	<p>DURADEK® offers mixing options in bearing bar shapes and spacing, cross-rod spacing, panel sizes, resins, color, coatings and grit.</p>	<p>The shape of the mold dictates the grating — few options.</p>
<b>EASY FIELD FABRICATION</b>	<p>DURADEK® can be field fabricated with simple carpenter tools and is easy to cut.</p>	<p>Slightly more difficult to cut than pultruded grating.</p>

**THE CHOICE! DURADEK® High Strength, Pultruded Fiberglass Grating!****STRONGWELL***ISO-9001 Quality Certified Manufacturing Plants***BRISTOL LOCATION**

400 Commonwealth Ave., P. O. Box 580  
 Bristol, VA 24203-0580 USA  
 (276) 645-8000

**CHATFIELD LOCATION\***

1610 Highway 52 South  
 Chatfield, MN 55923-9799 USA  
 (507) 867-3479

*\*DURADEK® manufacturing location*[www.strongwell.com](http://www.strongwell.com)

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