


# PRODUCT DATA SHEET

## FIBERGRATE® MOLDED GRATING WITH CORVEX® RESIN SYSTEM

### OPTIONS

| DEPTH  | MESH            | PANEL SIZES                              |
|--------|-----------------|--|
| 1"     | 1-1/2" x 1-1/2" | 3' x 10' / 4' x 8' / 4' x 12'            |
| 1-1/2" | 1-1/2" x 1-1/2" | 3' x 10' / 4' x 8' / 4' x 12' / 5' x 10' |

| COLORS    |        |
|-----------|--------|
| Dark Gray | Yellow |

| SURFACE  | DESCRIPTION   |
|--|---|
|  <p><b>Integrally Applied Grit</b></p> | The optional grip top of Fibergrate® grating has a quartz grit which is integrally applied, cured and sealed onto the surface providing excellent slip resistant footing. |

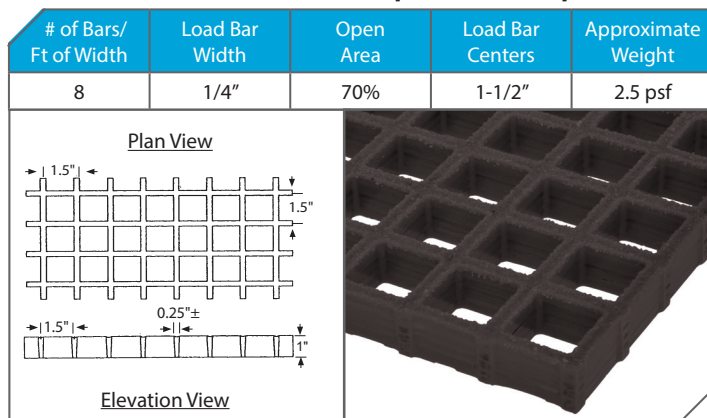
### RESIN

**Corvex®:** This newly improved isophthalic polyester resin system outperforms a number of competitive fiberglass and metal products and meets the requirements for corrosion resistance found in industrial, chemical processing and water/wastewater applications. *This upgraded formulation has replaced IFR, CP-84 and FS-25 resins.* Flame Spread: ASTM E84 rating of 25 or less. Certifications: DNV Type Approval No. F-16856; meets the USCG requirements for general fire rating\*.

\*For specific requirements and questions, please contact technical services.

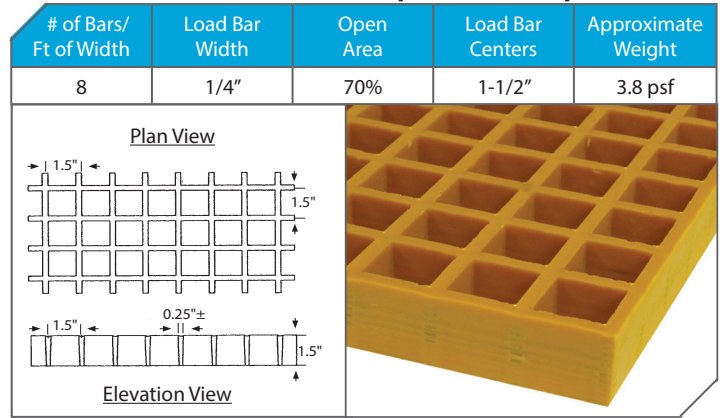
### DETAILS

#### 1" Deep x 1-1/2" Square Mesh



Section Properties per Ft of Width: A = 1.71 IN<sup>2</sup> I = 0.14IN<sup>4</sup> S = 0.29 IN<sup>3</sup>

#### 1-1/2" Deep x 1-1/2" Square Mesh



Section Properties per Ft of Width: A = 2.85 IN<sup>2</sup> I = 0.51 IN<sup>4</sup> S = 0.65 IN<sup>3</sup>

## RUBBER FEET FOR MOLDED GRATING



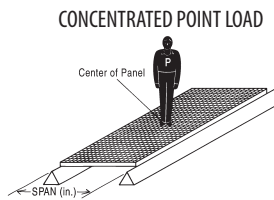
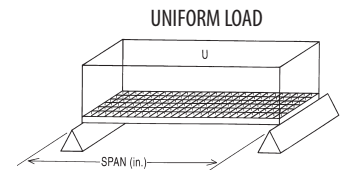
Specially designed rubber feet are an economical way to create a raised, ergonomic grating workmat for use around maintenance equipment, machines, lathes and in wet areas. With the rubber feet, facilities have a cost-effective solution to elevate grating needed for drainage or water flow and safe, ergonomic platforms. The feet can be utilized on all depths of molded grating from 1", 1-1/2" and 2" in any shape or configuration. The work mats can also be customized to worker resiliency preferences, just add more feet to increase the stiffness. The feet raise the grating 1/2" above the ground, and along with the open mesh, protect workers by allowing chips and fluids to fall below the standing surface eliminating slip and fall hazards.

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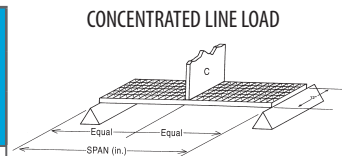
## LOAD CHARTS PRODUCTS: 1" Deep & 1-1/2" Deep Fibergrate® Molded Grating with 1-1/2" Square Mesh

| UNIFORM LOAD TABLE - DEFLECTION IN INCHES |            |            |      |      |      |      |      |      |      |      | MAX RECOM. LOAD (psf) | ULTIMATE CAPACITY (psf) |
|---|------------|------------|------|------|------|------|------|------|------|------|-----------------------|-------------------------|
| CLEAR SPAN (in)                           | DEPTH (in) | LOAD (psf) |      |      |      |      |      |      |      |      |                       |                         |
|   |            | 50         | 65   | 100  | 150  | 200  | 300  | 500  | 1000 | 2000 |                       |                         |
| 12  | 1"         | <.01       | <.01 | <.01 | <.01 | <.01 | 0.02 | 0.04 | 0.08 | 0.16 | 1420                  | 7120                    |
|   | 1-1/2"     | <.01       | <.01 | <.01 | <.01 | <.01 | 0.01 | 0.02 | 0.04 | 0.07 | 3200                  | 16000                   |
| 18  | 1"         | 0.02       | 0.02 | 0.04 | 0.06 | 0.08 | 0.11 | 0.20 | 0.38 | --   | 630                   | 3170                    |
|   | 1-1/2"     | <.01       | <.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.14 | 0.28 | 1420                  | 7100                    |
| 24  | 1"         | 0.06       | 0.08 | 0.12 | 0.19 | 0.25 | 0.37 | --   | --   | --   | 350                   | 1780                    |
|   | 1-1/2"     | 0.02       | 0.03 | 0.04 | 0.06 | 0.08 | 0.12 | 0.21 | 0.42 | --   | 800                   | 4000                    |
| 30  | 1"         | 0.14       | 0.18 | 0.27 | 0.41 | --   | --   | --   | --   | --   | 220                   | 1140                    |
|   | 1-1/2"     | 0.05       | 0.06 | 0.09 | 0.14 | 0.18 | 0.27 | 0.46 | --   | --   | 510                   | 2560                    |
| 36  | 1"         | 0.31       | 0.40 | --   | --   | --   | --   | --   | --   | --   | 150                   | 790                     |
|   | 1-1/2"     | 0.1        | 0.13 | 0.20 | 0.30 | 0.40 | --   | --   | --   | --   | 350                   | 1770                    |
| 42  | 1"         | 0.49       | --   | --   | --   | --   | --   | --   | --   | --   | 110                   | 580                     |
|   | 1-1/2"     | 0.17       | 0.22 | 0.34 | --   | --   | --   | --   | --   | --   | 260                   | 1300                    |
| 48  | 1-1/2"     | 0.28       | 0.37 | --   | --   | --   | --   | --   | --   | --   | 200                   | 1000                    |
| 54  | 1-1/2"     | 0.42       | --   | --   | --   | --   | --   | --   | --   | --   | 150                   | 790                     |

| MOLDED GRATING CONCENTRATED POINT LOAD TABLES - Deflection in Inches |            |           |      |      |      |      |      |      |
|--|------------|-----------|------|------|------|------|------|------|
| CLEAR SPAN (in)  | DEPTH (in) | LOAD (lb) |      |      |      |      |      |      |
|  |            | 50        | 100  | 200  | 300  | 500  | 1000 | 2000 |
| 18   | 1          | <.01      | 0.01 | 0.03 | 0.04 | 0.07 | 0.14 | 0.27 |
|  | 1-1/2*     | <.01      | <.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.13 |
| 24   | 1          | 0.01      | 0.03 | 0.05 | 0.08 | 0.13 | 0.26 | --   |
|  | 1-1/2*     | <.01      | 0.01 | 0.02 | 0.03 | 0.06 | 0.12 | 0.23 |
| 30   | 1          | 0.03      | 0.05 | 0.1  | 0.15 | 0.26 | --   | --   |
|  | 1-1/2*     | 0.01      | 0.02 | 0.04 | 0.06 | 0.1  | 0.2  | --   |
| 36   | 1          | 0.03      | 0.07 | 0.14 | 0.2  | 0.34 | --   | --   |
|  | 1-1/2*     | 0.02      | 0.03 | 0.06 | 0.09 | 0.15 | 0.3  | --   |
| 42   | 1          | 0.06      | 0.12 | 0.23 | 0.35 | --   | --   | --   |
|  | 1-1/2*     | 0.02      | 0.04 | 0.09 | 0.13 | 0.22 | 0.44 | --   |
| 46   | 1          | 0.07      | 0.14 | 0.28 | 0.42 | --   | --   | --   |
| 48   | 1-1/2*     | 0.03      | 0.06 | 0.12 | 0.18 | 0.29 | --   | --   |
| 54   | 1-1/2*     | 0.04      | 0.07 | 0.15 | 0.22 | 0.37 | --   | --   |
| 58   | 1-1/2*     | 0.04      | 0.08 | 0.17 | 0.25 | 0.42 | --   | --   |



| CONCENTRATED LINE LOAD TABLE - DEFLECTION IN INCHES |            |                       |      |      |      |      |      |      | MAX RECOM. LOAD (lbs/ft) | ULTIMATE CAPACITY (lbs/ft) |
|---|------------|-----------------------|------|------|------|------|------|------|--------------------------|----------------------------|
| CLEAR SPAN (in)                                     | DEPTH (in) | LOAD (lb/ft of width) |      |      |      |      |      |      |                          |                            |
|   |            | 50                    | 100  | 200  | 300  | 500  | 1000 | 2000 |                          |                            |
| 12  | 1"         | <.01                  | 0.01 | 0.03 | 0.04 | 0.06 | 0.13 | --   | 710                      | 3560                       |
|   | 1-1/2"     | <.01                  | <.01 | 0.01 | 0.02 | 0.03 | 0.05 | 0.11 | 1600                     | 8000                       |
| 18  | 1"         | 0.02                  | 0.04 | 0.08 | 0.12 | 0.20 | 0.41 | --   | 470                      | 2370                       |
|   | 1-1/2"     | 0.01                  | 0.02 | 0.03 | 0.05 | 0.08 | 0.15 | 0.3  | 1060                     | 5330                       |
| 24  | 1"         | 0.05                  | 0.1  | 0.2  | 0.3  | 0.49 | --   | --   | 350                      | 1780                       |
|   | 1-1/2"     | 0.02                  | 0.03 | 0.07 | 0.1  | 0.17 | 0.33 | --   | 800                      | 4000                       |
| 30  | 1"         | 0.09                  | 0.18 | 0.35 | --   | --   | --   | --   | 280                      | 1420                       |
|   | 1-1/2"     | 0.03                  | 0.06 | 0.12 | 0.18 | 0.29 | --   | --   | 640                      | 3200                       |
| 36  | 1"         | 0.16                  | 0.33 | --   | --   | --   | --   | --   | 230                      | 1180                       |
|   | 1-1/2"     | 0.05                  | 0.11 | 0.21 | 0.32 | --   | --   | --   | 530                      | 2660                       |
| 42  | 1"         | 0.26                  | 0.45 | --   | --   | --   | --   | --   | 200                      | 1010                       |
|   | 1-1/2"     | 0.08                  | 0.16 | 0.32 | 0.47 | --   | --   | --   | 450                      | 2280                       |
| 46  | 1"         | 0.32                  | --   | --   | --   | --   | --   | --   | 180                      | 900                        |
| 48  | 1-1/2"     | 0.11                  | 0.23 | 0.45 | --   | --   | --   | --   | 400                      | 2000                       |
| 54  | 1-1/2"     | 0.15                  | 0.3  | --   | --   | --   | --   | --   | 350                      | 1770                       |



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