DURAGRID® R-8300 1” FIBERGLASS GRATING

- Lightweight
- Easy to Install
- Rot, Rust & Mildew Resistant
- Low in Conductivity
- Strong
- Flame Retardant
- Low in Maintenance

DURAGRID® R-8300 1” fiberglass grating is specially designed for use in environments such as cooling towers where maximizing airflow is important. The smooth rectangular bar construction yields 83% open space allowing excellent airflow while still providing 60 lbs. per square foot load capacity on a 36” loading span. In addition, the deflection at 60psf is only 1/8” or about one-half the deflection limit.

DURAGRID® R-8300 1” fiberglass grating weighs only 2.2 lbs. per square foot with grating bars spaced at 1.875”, center to center. The grating can be safely used for maintenance walkways and access platforms.

DURAGRID® R-8300 1” fiberglass grating is produced in safety yellow color allowing excellent visibility.
**Materials of Construction**

DURAGRID® R-8300 1” fiberglass grating is a composite of fiberglass roving and mat with a polyester thermoset resin system, produced by the pultrusion process. The bearing bars use both longitudinal glass rovings and multidirectional continuous strand mat, as well as a synthetic surfacing veil to provide high strength and corrosion resistance. The bearing bars are connected together by Strongwell's unique 3-piece cross rod assembly system using epoxy resin to bond the bearing bars and cross rods together.

**Dimensional Details**

**DURAGRID® R-8300 1” Bearing Bar**

- **A = 2.003 IN^2/FT OF WIDTH**
- **I = 0.166 IN^4/FT OF WIDTH**
- **S = 0.332 IN^3/FT OF WIDTH**
- **83% OPEN AREA**
- **APPROX. WT. = 2.2 LBS/SQ FT**

| SPAN (INCHES) | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| **LOAD**      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| **DEFLECTION**|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| E x 100 psi   | 282 | 226 | 270 | 410 | 360 | 531 | 270 | 425 | 898 | 200 | 483 | 718 | 601 | 1188 | 200 | 718 | 1280 | 1600 | 3550 | 5020 | 1100 |
| **NOTE:** The red line ( ) indicates at what point the load weight has \( \leq .25" \) deflection.