

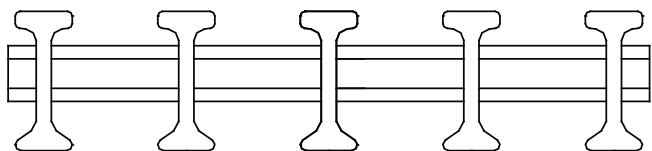
Certified to  
ASTM F3059-24 L2  
from SwRI,  
*a USCG Accepted Laboratory*



EXCLUSIVELY  
 MADE IN THE  
USA

# DURA<sup>GRID</sup>® PHENOLIC

FIRE INTEGRITY COMPOSITE GRATING



# FIRE INTEGRITY COMPOSITE GRATING



*DURAGRID® Phenolic Grating has been used to reduce weight and maintenance on offshore oil production platforms since 1994.*



*DURAGRID® Phenolic Grating's unique construction allows for many penetrations to be cut without adding additional supports.*



**Above:** *DURAGRID® Phenolic Grating's 3-piece cross-rod system has been time tested for durability.*

**Left:** *DURAGRID® Phenolic Grating is very lightweight. The initial installation or removal of panels for area access can be performed quickly.*

DURAGRID® Phenolic Grating continues to set the world offshore standard for Fire Integrity composite grating. Strongwell's use of the highest quality raw materials, state-of-the-art manufacturing processes and superior engineering have produced a product of unmatched quality and performance. The fourth generation of DURAGRID® Phenolic exhibits improved mechanical properties, fire integrity, and impact resistance for greater durability. Strongwell's pultrusion facilities are ISO-9001 certified to further ensure that DURAGRID® Phenolic is manufactured following the highest quality standards. DURAGRID® Phenolic was the first commercially successful phenolic grating and has been exclusively produced in the USA since 1994.

## Features

DURAGRID® Phenolic Grating is a dramatic innovation for markets where fire safety is a major concern; offering superior corrosion resistance, resistance to high temperatures, low smoke and low toxic fume emissions<sup>1</sup>. The nonflammable nature of phenolics enable this grating to withstand higher temperatures than traditional FRP products for extended periods of time. Combined with very low thermal conductivity, DURAGRID® Phenolic Grating offers the best strength-to-weight ratio for projects that require maximum weight optimization with fire protection not available from alternative materials.

DURAGRID® Phenolic Grating was the first composite grating to receive U.S. Coast Guard approval and now the first to achieve certification to ASTM F3059-24: the enhanced replacement for USCG PFM 2-98. DURAGRID® Phenolic is Structural Fire Integrity Level 2 (L2) and accepted for use in locations defined in ASTM F3059.

In addition, DURAGRID® Phenolic Grating has these features:

- **Strength of Steel** — Compared to new standard steel grating, DURAGRID® Phenolic I-6000 38mm (1-½") can carry 2.53 times the load of equivalent steel grating. Unlike metal gratings, DURAGRID® Phenolic has memory, returning to its original shape if design loads are exceeded.
- **Ease of Fabrication** — DURAGRID® Phenolic Grating requires no hot-work or heavy equipment to install or make field modifications. The unique three piece cross-bar construction enables DURAGRID® to be cut like a solid sheet with simple hand tools — no need for banding as with metal grating.
- **Lightweight, Easy to Install** — DURAGRID® Phenolic is approximately one-third the weight of steel bar grating. It is also much lighter than molded FRP grating, yet many times the strength.
- **Dependable Non-Skid Surface For Safety and Comfort** — DURAGRID® Phenolic Grating has a non-skid surface for superior slip and impact resistance. The product complies with the rigorous requirements for non-skid capability and demanding durability within ASTM F3059. The wide bearing bar is less fatiguing and friendlier to work on than serrated steel grating and is not dangerously sharp like some molded gratings.
- **High Impact and Fire Resistance** — DURAGRID® Phenolic's proprietary (exclusive) construction exceeds the impact requirements (dropped object and high trolley loading) of ASTM F3059. The improved durability provides the highest return on investment when it comes to the product's life cycle costs while meeting the higher fire requirements of the same ASTM requirement.

<sup>1</sup> Toxicity levels comply with IMO

## Typical Applications

- Offshore production platforms
- Aircraft
- FLNG/LNG vessels
- Mobile offshore drilling units (MODU's)
- Mining
- Docks/jetties/load-out areas
- Extreme cold (Arctic) areas
- Shipboard applications
- Industrial/processing plants
- Tunnels/mass transit
- Refineries

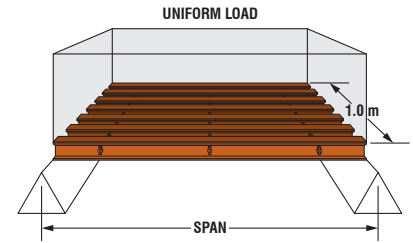


# DURAGRID® Phenolic Pultruded Grating

## Uniform Load (Deflection in Millimeters)

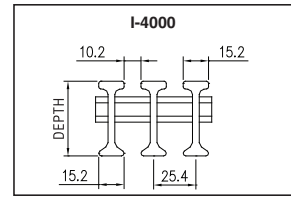
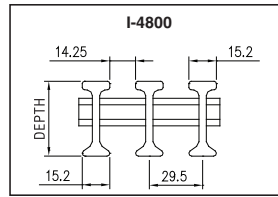
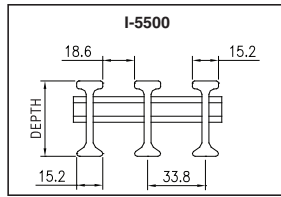
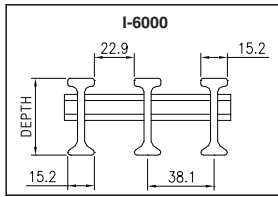
NOTE: Bearing bar spacing on center: I-6000 = 38.1mm I-5500 = 33.8mm  
I-4800 = 29.5mm I-4000 = 25.4mm

NOTE: The red area ( ) indicates at what point the load weight has ≤ 6.35mm deflection.



LOAD in kN / SQUARE METER

| SPAN<br>M | STYLE  |       | 3    | 5    | 7.5  | 10   | 13   | 15   | 20   | 25    | 39    | 50    | 100   | 150   | 200   | 250   | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>10</sup><br>N/m <sup>2</sup> |      |
|-----------|--------|-------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|---------------------------------------|-----------------|------------------------------------------|------|
|           | SERIES | DEPTH |      |      |      |      |      |      |      |       |       |       |       |       |       |       |                                       |                 |                                          |      |
| 0.6       | I-6000 | 38mm  | 0.11 | 0.19 | 0.29 | 0.38 | 0.50 | 0.57 | 0.77 | 0.96  | 1.49  | 1.91  | 3.83  | 5.74  | 7.66  | 9.57  | 258                                   | 9.9             | 3.66                                     |      |
|           | I-5500 | 38mm  | 0.10 | 0.17 | 0.26 | 0.34 | 0.44 | 0.51 | 0.68 | 0.85  | 1.33  | 1.70  | 3.41  | 5.11  | 6.81  | 8.51  | 291                                   | 9.9             | 3.66                                     |      |
|           | I-4800 | 38mm  | 0.09 | 0.15 | 0.22 | 0.30 | 0.39 | 0.45 | 0.59 | 0.74  | 1.16  | 1.48  | 2.97  | 4.45  | 5.93  | 7.42  | 333                                   | 9.9             | 3.66                                     |      |
|           | I-4000 | 38mm  | 0.08 | 0.13 | 0.19 | 0.26 | 0.33 | 0.38 | 0.51 | 0.64  | 1.00  | 1.28  | 2.55  | 3.83  | 5.11  | 6.39  | 387                                   | 9.9             | 3.66                                     |      |
|           | I-6000 | 45mm  | 0.07 | 0.11 | 0.17 | 0.23 | 0.30 | 0.34 | 0.46 | 0.57  | 0.89  | 1.14  | 2.28  | 3.42  | 4.57  | 5.71  | 345                                   | 7.9             | 3.66                                     |      |
|           | I-5500 | 45mm  | 0.06 | 0.10 | 0.15 | 0.20 | 0.26 | 0.30 | 0.41 | 0.51  | 0.79  | 1.01  | 2.03  | 3.04  | 4.06  | 5.07  | 389                                   | 7.9             | 3.66                                     |      |
|           | I-4800 | 45mm  | 0.05 | 0.09 | 0.13 | 0.18 | 0.23 | 0.27 | 0.35 | 0.44  | 0.69  | 0.88  | 1.77  | 2.65  | 3.53  | 4.42  | 446                                   | 7.9             | 3.66                                     |      |
|           | I-4000 | 45mm  | 0.05 | 0.08 | 0.11 | 0.15 | 0.20 | 0.23 | 0.30 | 0.38  | 0.59  | 0.76  | 1.52  | 2.28  | 3.04  | 3.81  | 518                                   | 7.9             | 3.66                                     |      |
| 0.8       | I-6000 | 38mm  | 0.34 | 0.57 | 0.85 | 1.14 | 1.48 | 1.70 | 2.27 | 2.84  | 4.43  | 5.68  | 11.36 |       |       | 180   | 20.4                                  | 3.90            |                                          |      |
|           | I-5500 | 38mm  | 0.30 | 0.50 | 0.76 | 1.01 | 1.31 | 1.51 | 2.02 | 2.52  | 3.94  | 5.05  | 10.10 | 15.15 |       | 203   | 20.5                                  | 3.90            |                                          |      |
|           | I-4800 | 38mm  | 0.26 | 0.44 | 0.66 | 0.88 | 1.14 | 1.32 | 1.76 | 2.20  | 3.43  | 4.40  | 8.80  | 13.20 |       | 233   | 20.5                                  | 3.90            |                                          |      |
|           | I-4000 | 38mm  | 0.23 | 0.38 | 0.57 | 0.76 | 0.98 | 1.14 | 1.52 | 1.89  | 2.95  | 3.79  | 7.58  | 11.36 | 15.15 | 270   | 20.5                                  | 3.90            |                                          |      |
|           | I-6000 | 45mm  | 0.20 | 0.34 | 0.51 | 0.68 | 0.88 | 1.02 | 1.35 | 1.69  | 2.64  | 3.38  | 6.77  | 10.15 |       | 218   | 14.8                                  | 3.90            |                                          |      |
|           | I-5500 | 45mm  | 0.18 | 0.30 | 0.45 | 0.60 | 0.78 | 0.90 | 1.20 | 1.50  | 2.35  | 3.01  | 6.02  | 9.03  | 12.04 | 246   | 14.8                                  | 3.90            |                                          |      |
|           | I-4800 | 45mm  | 0.16 | 0.26 | 0.39 | 0.52 | 0.68 | 0.79 | 1.05 | 1.31  | 2.04  | 2.62  | 5.24  | 7.86  | 10.48 | 282   | 14.8                                  | 3.90            |                                          |      |
|           | I-4000 | 45mm  | 0.14 | 0.23 | 0.34 | 0.45 | 0.59 | 0.68 | 0.90 | 1.13  | 1.76  | 2.26  | 4.51  | 6.77  | 9.03  | 11.29 | 327                                   | 14.8            | 3.90                                     |      |
| 1.0       | I-6000 | 38mm  | 0.77 | 1.28 | 1.93 | 2.57 | 3.34 | 3.85 | 5.14 | 6.42  | 10.02 | 12.84 |       |       |       | 163   | 41.9                                  | 4.21            |                                          |      |
|           | I-5500 | 38mm  | 0.69 | 1.14 | 1.71 | 2.28 | 2.97 | 3.43 | 4.57 | 5.71  | 8.91  | 11.42 |       |       |       | 184   | 42.0                                  | 4.21            |                                          |      |
|           | I-4800 | 38mm  | 0.60 | 1.00 | 1.49 | 1.99 | 2.59 | 2.99 | 3.98 | 4.98  | 7.76  | 9.95  |       |       |       | 211   | 41.9                                  | 4.21            |                                          |      |
|           | I-4000 | 38mm  | 0.51 | 0.86 | 1.29 | 1.71 | 2.23 | 2.57 | 3.43 | 4.28  | 6.68  | 8.57  |       |       |       | 245   | 41.9                                  | 4.21            |                                          |      |
|           | I-6000 | 45mm  | 0.46 | 0.77 | 1.15 | 1.53 | 1.99 | 2.30 | 3.06 | 3.83  | 5.97  | 7.66  |       |       |       | 140   | 21.4                                  | 4.21            |                                          |      |
|           | I-5500 | 45mm  | 0.41 | 0.68 | 1.02 | 1.36 | 1.77 | 2.04 | 2.72 | 3.40  | 5.31  | 6.81  | 13.61 |       |       | 158   | 21.5                                  | 4.21            |                                          |      |
|           | I-4800 | 45mm  | 0.36 | 0.59 | 0.89 | 1.19 | 1.54 | 1.78 | 2.37 | 2.96  | 4.62  | 5.93  | 11.85 | 17.78 |       | 181   | 21.4                                  | 4.21            |                                          |      |
|           | I-4000 | 45mm  | 0.31 | 0.51 | 0.77 | 1.02 | 1.33 | 1.53 | 2.04 | 2.55  | 3.98  | 5.11  | 10.21 | 15.32 |       | 210   | 21.4                                  | 4.21            |                                          |      |
| 1.12      | I-6000 | 38mm  | 1.15 | 1.92 | 2.88 | 3.84 | 4.99 | 5.76 | 7.68 | 9.60  |       |       |       |       |       |       | 84                                    | 32.3            | 4.43                                     |      |
|           | I-5500 | 38mm  | 1.02 | 1.71 | 2.56 | 3.42 | 4.44 | 5.12 | 6.83 | 8.54  | 13.32 |       |       |       |       |       | 95                                    | 32.4            | 4.43                                     |      |
|           | I-4800 | 38mm  | 0.89 | 1.49 | 2.23 | 2.98 | 3.87 | 4.46 | 5.95 | 7.44  | 11.61 | 14.88 |       |       |       |       |                                       | 109             | 32.3                                     | 4.43 |
|           | I-4000 | 38mm  | 0.77 | 1.28 | 1.92 | 2.56 | 3.33 | 3.84 | 5.12 | 6.41  | 9.99  | 12.81 |       |       |       |       |                                       | 126             | 32.3                                     | 4.43 |
|           | I-6000 | 45mm  | 0.69 | 1.14 | 1.72 | 2.29 | 2.98 | 3.43 | 4.58 | 5.72  | 8.93  | 11.45 |       |       |       |       |                                       | 111             | 25.4                                     | 4.43 |
|           | I-5500 | 45mm  | 0.61 | 1.02 | 1.53 | 2.04 | 2.65 | 3.05 | 4.07 | 5.09  | 7.94  | 10.18 | 20.36 |       |       |       |                                       | 125             | 25.5                                     | 4.43 |
|           | I-4800 | 45mm  | 0.53 | 0.89 | 1.33 | 1.77 | 2.30 | 2.66 | 3.55 | 4.43  | 6.91  | 8.86  | 17.73 |       |       |       |                                       | 143             | 25.4                                     | 4.43 |
|           | I-4000 | 45mm  | 0.46 | 0.76 | 1.15 | 1.53 | 1.98 | 2.29 | 3.05 | 3.82  | 5.95  | 7.63  | 15.27 |       |       |       |                                       | 167             | 25.4                                     | 4.43 |
| 1.2       | I-6000 | 38mm  | 1.48 | 2.46 | 3.70 | 4.93 | 6.41 | 7.39 | 9.86 | 12.32 |       |       |       |       |       |       | 70                                    | 34.5            | 4.55                                     |      |
|           | I-5500 | 38mm  | 1.31 | 2.19 | 3.29 | 4.38 | 5.70 | 6.57 | 8.77 | 10.96 |       |       |       |       |       |       | 79                                    | 34.6            | 4.55                                     |      |
|           | I-4800 | 38mm  | 1.15 | 1.91 | 2.86 | 3.82 | 4.96 | 5.73 | 7.64 | 9.55  | 14.89 |       |       |       |       |       | 90                                    | 34.5            | 4.55                                     |      |
|           | I-4000 | 38mm  | 0.99 | 1.64 | 2.47 | 3.29 | 4.27 | 4.93 | 6.58 | 8.22  | 12.82 |       |       |       |       |       | 105                                   | 34.5            | 4.55                                     |      |
|           | I-6000 | 45mm  | 0.88 | 1.47 | 2.20 | 2.94 | 3.82 | 4.41 | 5.88 | 7.34  | 11.46 |       |       |       |       |       | 97                                    | 28.5            | 4.55                                     |      |
|           | I-5500 | 45mm  | 0.78 | 1.31 | 1.96 | 2.61 | 3.40 | 3.92 | 5.22 | 6.53  | 10.19 | 13.06 |       |       |       |       |                                       | 109             | 28.6                                     | 4.55 |
|           | I-4800 | 45mm  | 0.68 | 1.14 | 1.71 | 2.27 | 2.96 | 3.41 | 4.55 | 5.69  | 8.87  | 11.37 |       |       |       |       |                                       | 125             | 28.5                                     | 4.55 |
|           | I-4000 | 45mm  | 0.59 | 0.98 | 1.47 | 1.96 | 2.55 | 2.94 | 3.92 | 4.90  | 7.64  | 9.80  |       |       |       |       |                                       | 146             | 28.5                                     | 4.55 |



LOAD in kN / SQUARE METER

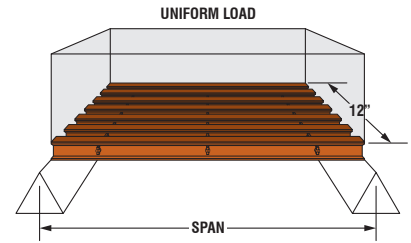
| SPAN<br>M | STYLE  |       | 3    | 5     | 7.5   | 10    | 13    | 15    | 20    | 25    | 39    | 50 | 100 | 150 | 200 | 250 | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>10</sup><br>N/m <sup>2</sup> |
|-----------|--------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|-----|-----|-----|-----|---------------------------------------|-----------------|------------------------------------------|
|           | SERIES | DEPTH |      |       |       |       |       |       |       |       |       |    |     |     |     |     |                                       |                 |                                          |
| 1.4       | I-6000 | 38mm  | 2.70 | 4.50  | 6.74  | 8.99  | 11.69 | 13.49 |       |       |       |    |     |     |     |     | 56                                    | 50.4            | 4.62                                     |
|           | I-5500 | 38mm  | 2.40 | 4.00  | 6.00  | 8.00  | 10.40 | 11.99 |       |       |       |    |     |     |     |     | 63                                    | 50.5            | 4.62                                     |
|           | I-4800 | 38mm  | 2.09 | 3.48  | 5.23  | 6.97  | 9.06  | 10.45 | 13.93 |       |       |    |     |     |     |     | 72                                    | 50.4            | 4.62                                     |
|           | I-4000 | 38mm  | 1.80 | 3.00  | 4.50  | 6.00  | 7.80  | 9.00  | 12.00 | 15.00 |       |    |     |     |     |     | 84                                    | 50.4            | 4.62                                     |
|           | I-6000 | 45mm  | 1.61 | 2.68  | 4.02  | 5.36  | 6.97  | 8.04  | 10.72 | 13.40 |       |    |     |     |     |     | 71                                    | 38.1            | 4.62                                     |
|           | I-5500 | 45mm  | 1.43 | 2.38  | 3.57  | 4.77  | 6.20  | 7.15  | 9.53  | 11.91 |       |    |     |     |     |     | 80                                    | 38.2            | 4.62                                     |
|           | I-4800 | 45mm  | 1.24 | 2.07  | 3.11  | 4.15  | 5.39  | 6.22  | 8.30  | 10.37 | 16.18 |    |     |     |     |     | 92                                    | 38.1            | 4.62                                     |
|           | I-4000 | 45mm  | 1.07 | 1.79  | 2.68  | 3.57  | 4.65  | 5.36  | 7.15  | 8.94  | 13.94 |    |     |     |     |     | 107                                   | 38.1            | 4.62                                     |
| 1.6       | I-6000 | 38mm  | 4.53 | 7.56  | 11.33 |       |       |       |       |       |       |    |     |     |     |     | 40                                    | 60.4            | 4.69                                     |
|           | I-5500 | 38mm  | 4.03 | 6.72  | 10.08 | 13.44 |       |       |       |       |       |    |     |     |     |     | 45                                    | 60.6            | 4.69                                     |
|           | I-4800 | 38mm  | 3.51 | 5.85  | 8.78  | 11.71 | 15.22 |       |       |       |       |    |     |     |     |     | 52                                    | 60.5            | 4.69                                     |
|           | I-4000 | 38mm  | 3.02 | 5.04  | 7.56  | 10.08 | 13.10 |       |       |       |       |    |     |     |     |     | 60                                    | 60.5            | 4.69                                     |
|           | I-6000 | 45mm  | 2.70 | 4.50  | 6.76  | 9.01  | 11.71 | 13.51 |       |       |       |    |     |     |     |     | 55                                    | 49.5            | 4.69                                     |
|           | I-5500 | 45mm  | 2.40 | 4.00  | 6.01  | 8.01  | 10.41 | 12.01 |       |       |       |    |     |     |     |     | 62                                    | 49.7            | 4.69                                     |
|           | I-4800 | 45mm  | 2.09 | 3.49  | 5.23  | 6.97  | 9.07  | 10.46 | 13.95 |       |       |    |     |     |     |     | 71                                    | 49.5            | 4.69                                     |
|           | I-4000 | 45mm  | 1.80 | 3.00  | 4.51  | 6.01  | 7.81  | 9.01  | 12.01 |       |       |    |     |     |     |     | 83                                    | 49.6            | 4.69                                     |
| 1.8       | I-6000 | 38mm  | 7.26 | 12.10 |       |       |       |       |       |       |       |    |     |     |     |     | 32                                    | 77.5            | 4.69                                     |
|           | I-5500 | 38mm  | 6.46 | 10.76 |       |       |       |       |       |       |       |    |     |     |     |     | 36                                    | 77.7            | 4.69                                     |
|           | I-4800 | 38mm  | 5.63 | 9.38  | 14.07 |       |       |       |       |       |       |    |     |     |     |     | 41                                    | 77.6            | 4.69                                     |
|           | I-4000 | 38mm  | 4.84 | 8.07  | 12.11 |       |       |       |       |       |       |    |     |     |     |     | 48                                    | 77.5            | 4.69                                     |
|           | I-6000 | 45mm  | 4.33 | 7.21  | 10.82 |       |       |       |       |       |       |    |     |     |     |     | 43                                    | 62.0            | 4.69                                     |
|           | I-5500 | 45mm  | 3.85 | 6.41  | 9.62  | 12.83 |       |       |       |       |       |    |     |     |     |     | 48                                    | 62.2            | 4.69                                     |
|           | I-4800 | 45mm  | 3.35 | 5.59  | 8.38  | 11.17 | 14.52 |       |       |       |       |    |     |     |     |     | 56                                    | 62.0            | 4.69                                     |
|           | I-4000 | 45mm  | 2.89 | 4.81  | 7.22  | 9.62  | 12.51 | 14.43 |       |       |       |    |     |     |     |     | 65                                    | 62.1            | 4.69                                     |
| 2.0       | I-6000 | 45mm  | 6.60 | 11.00 |       |       |       |       |       |       |       |    |     |     |     |     | 35                                    | 77.0            | 4.69                                     |
|           | I-5500 | 45mm  | 5.87 | 9.78  |       |       |       |       |       |       |       |    |     |     |     |     | 39                                    | 77.2            | 4.69                                     |
|           | I-4800 | 45mm  | 5.11 | 8.51  | 12.77 |       |       |       |       |       |       |    |     |     |     |     | 45                                    | 77.0            | 4.69                                     |
|           | I-4000 | 45mm  | 4.40 | 7.33  | 11.00 | 14.67 |       |       |       |       |       |    |     |     |     |     | 53                                    | 77.0            | 4.69                                     |

# DURAGRID® Phenolic Pultruded Grating

## Uniform Load (Deflection in Inches)

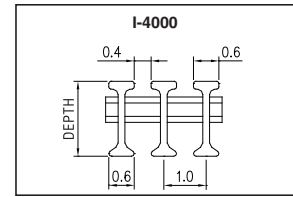
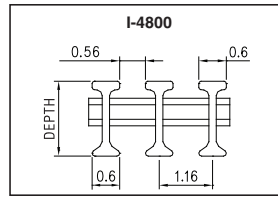
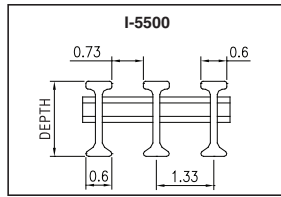
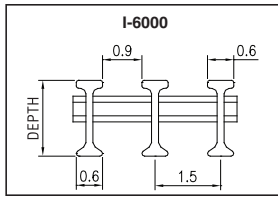
NOTE: Bearing bar spacing on center: I-6000 = 1.5" I-5500 = 1.33"  
I-4800 = 1.16" I-4000 = 1.00"

NOTE: The red area ( ) indicates at what point the load weight has ≤ 0.25" deflection.



LOAD in LB / SQUARE FOOT (PSF)

| SPAN<br>INCHES | STYLE  |        | 50    | 100   | 150   | 200  | 250  | 300  | 400  | 500  | 750  | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>6</sup><br>PSI |
|----------------|--------|--------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------------|-----------------|----------------------------|
|                | SERIES | DEPTH  |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |                                       |                 |                            |
| 24             | I-6000 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.15 | 0.23 | 0.31 | 0.38 |      | 5388                                  | 0.41            | 5.31                       |
|                | I-5500 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.05 | 0.07 | 0.14 | 0.21 | 0.27 | 0.34 | 0.41 | 6062                                  | 0.41            | 5.31                       |
|                | I-4800 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.12 | 0.18 | 0.24 | 0.30 | 0.36 | 6964                                  | 0.41            | 5.31                       |
|                | I-4000 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.10 | 0.15 | 0.21 | 0.26 | 0.31 | 8082                                  | 0.41            | 5.31                       |
|                | I-6000 | 1-3/4" | <0.01 | <0.01 | 0.01  | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.05 | 0.09 | 0.14 | 0.18 | 0.23 | 0.27 | 7206                                  | 0.33            | 5.31                       |
|                | I-5500 | 1-3/4" | <0.01 | <0.01 | 0.01  | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.08 | 0.12 | 0.16 | 0.20 | 0.24 | 8107                                  | 0.33            | 5.31                       |
|                | I-4800 | 1-3/4" | <0.01 | <0.01 | 0.01  | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.11 | 0.14 | 0.18 | 0.21 |      | 9314                                  | 0.33            | 5.31                       |
|                | I-4000 | 1-3/4" | <0.01 | <0.01 | <0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 10809                                 | 0.33            | 5.31                       |
| 30             | I-6000 | 1-1/2" | 0.01  | 0.02  | 0.03  | 0.04 | 0.04 | 0.05 | 0.07 | 0.09 | 0.13 | 0.18 | 0.36 | 0.53 |      |      |      | 3761                                  | 0.67            | 5.60                       |
|                | I-5500 | 1-1/2" | 0.01  | 0.02  | 0.02  | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.12 | 0.16 | 0.32 | 0.47 | 0.63 |      |      | 4231                                  | 0.67            | 5.60                       |
|                | I-4800 | 1-1/2" | 0.01  | 0.01  | 0.02  | 0.03 | 0.03 | 0.04 | 0.06 | 0.07 | 0.10 | 0.14 | 0.28 | 0.41 | 0.55 |      |      | 4861                                  | 0.67            | 5.60                       |
|                | I-4000 | 1-1/2" | 0.01  | 0.01  | 0.02  | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.09 | 0.12 | 0.24 | 0.36 | 0.47 | 0.59 |      | 5642                                  | 0.67            | 5.60                       |
|                | I-6000 | 1-3/4" | 0.01  | 0.01  | 0.02  | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.08 | 0.11 | 0.21 | 0.32 | 0.42 | 0.53 |      | 5031                                  | 0.53            | 5.60                       |
|                | I-5500 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.09 | 0.19 | 0.28 | 0.38 | 0.47 |      | 5660                                  | 0.53            | 5.60                       |
|                | I-4800 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.02 | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.16 | 0.25 | 0.33 | 0.41 | 0.49 | 6503                                  | 0.53            | 5.60                       |
|                | I-4000 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 7547                                  | 0.53            | 5.60                       |
| 36             | I-6000 | 1-1/2" | 0.02  | 0.03  | 0.05  | 0.07 | 0.09 | 0.10 | 0.14 | 0.17 | 0.26 | 0.34 |      |      |      |      |      | 2612                                  | 0.90            | 6.00                       |
|                | I-5500 | 1-1/2" | 0.02  | 0.03  | 0.05  | 0.06 | 0.08 | 0.09 | 0.12 | 0.15 | 0.23 | 0.31 | 0.61 |      |      |      |      | 2939                                  | 0.90            | 6.00                       |
|                | I-4800 | 1-1/2" | 0.01  | 0.03  | 0.04  | 0.05 | 0.07 | 0.08 | 0.11 | 0.13 | 0.20 | 0.27 | 0.53 |      |      |      |      | 3376                                  | 0.90            | 6.00                       |
|                | I-4000 | 1-1/2" | 0.01  | 0.02  | 0.03  | 0.05 | 0.06 | 0.07 | 0.09 | 0.11 | 0.17 | 0.23 | 0.46 |      |      |      |      | 3918                                  | 0.90            | 6.00                       |
|                | I-6000 | 1-3/4" | 0.01  | 0.02  | 0.03  | 0.04 | 0.05 | 0.06 | 0.08 | 0.10 | 0.15 | 0.21 | 0.41 | 0.62 |      |      |      | 3494                                  | 0.72            | 6.00                       |
|                | I-5500 | 1-3/4" | 0.01  | 0.02  | 0.03  | 0.04 | 0.05 | 0.05 | 0.07 | 0.09 | 0.14 | 0.18 | 0.36 | 0.55 |      |      |      | 3931                                  | 0.72            | 6.00                       |
|                | I-4800 | 1-3/4" | 0.01  | 0.02  | 0.02  | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.12 | 0.16 | 0.32 | 0.48 | 0.64 |      |      | 4516                                  | 0.72            | 6.00                       |
|                | I-4000 | 1-3/4" | 0.01  | 0.01  | 0.02  | 0.03 | 0.03 | 0.04 | 0.05 | 0.07 | 0.10 | 0.14 | 0.27 | 0.41 | 0.55 |      |      | 5241                                  | 0.72            | 6.00                       |
| 42             | I-6000 | 1-1/2" | 0.03  | 0.06  | 0.09  | 0.12 | 0.15 | 0.18 | 0.24 | 0.30 | 0.45 | 0.60 |      |      |      |      |      | 1919                                  | 1.16            | 6.34                       |
|                | I-5500 | 1-1/2" | 0.03  | 0.05  | 0.08  | 0.11 | 0.13 | 0.16 | 0.21 | 0.27 | 0.40 | 0.54 |      |      |      |      |      | 2159                                  | 1.16            | 6.34                       |
|                | I-4800 | 1-1/2" | 0.02  | 0.05  | 0.07  | 0.09 | 0.12 | 0.14 | 0.19 | 0.23 | 0.35 | 0.47 |      |      |      |      |      | 2480                                  | 1.16            | 6.34                       |
|                | I-4000 | 1-1/2" | 0.02  | 0.04  | 0.06  | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.30 | 0.40 |      |      |      |      |      | 2879                                  | 1.16            | 6.34                       |
|                | I-6000 | 1-3/4" | 0.02  | 0.04  | 0.05  | 0.07 | 0.09 | 0.11 | 0.14 | 0.18 | 0.27 | 0.36 |      |      |      |      |      | 2567                                  | 0.92            | 6.34                       |
|                | I-5500 | 1-3/4" | 0.02  | 0.03  | 0.05  | 0.06 | 0.08 | 0.10 | 0.13 | 0.16 | 0.24 | 0.32 |      |      |      |      |      | 2888                                  | 0.92            | 6.34                       |
|                | I-4800 | 1-3/4" | 0.01  | 0.03  | 0.04  | 0.06 | 0.07 | 0.08 | 0.11 | 0.14 | 0.21 | 0.28 | 0.56 |      |      |      |      | 3318                                  | 0.92            | 6.34                       |
|                | I-4000 | 1-3/4" | 0.01  | 0.02  | 0.04  | 0.05 | 0.06 | 0.07 | 0.10 | 0.12 | 0.18 | 0.24 | 0.48 |      |      |      |      | 3851                                  | 0.92            | 6.34                       |
| 48             | I-6000 | 1-1/2" | 0.05  | 0.10  | 0.15  | 0.20 | 0.25 | 0.30 | 0.40 | 0.49 |      |      |      |      |      |      |      | 1469                                  | 1.45            | 6.60                       |
|                | I-5500 | 1-1/2" | 0.04  | 0.09  | 0.13  | 0.18 | 0.22 | 0.26 | 0.35 | 0.44 |      |      |      |      |      |      |      | 1653                                  | 1.45            | 6.60                       |
|                | I-4800 | 1-1/2" | 0.04  | 0.08  | 0.11  | 0.15 | 0.19 | 0.23 | 0.31 | 0.38 | 0.57 |      |      |      |      |      |      | 1899                                  | 1.45            | 6.60                       |
|                | I-4000 | 1-1/2" | 0.03  | 0.07  | 0.10  | 0.13 | 0.16 | 0.20 | 0.26 | 0.33 | 0.49 |      |      |      |      |      |      | 2204                                  | 1.45            | 6.60                       |
|                | I-6000 | 1-3/4" | 0.03  | 0.06  | 0.09  | 0.12 | 0.15 | 0.18 | 0.24 | 0.29 | 0.44 | 0.59 |      |      |      |      |      | 1965                                  | 1.16            | 6.60                       |
|                | I-5500 | 1-3/4" | 0.03  | 0.05  | 0.08  | 0.10 | 0.13 | 0.16 | 0.21 | 0.26 | 0.39 | 0.52 |      |      |      |      |      | 2211                                  | 1.16            | 6.60                       |
|                | I-4800 | 1-3/4" | 0.02  | 0.05  | 0.07  | 0.09 | 0.11 | 0.14 | 0.18 | 0.23 | 0.34 | 0.46 |      |      |      |      |      | 2540                                  | 1.16            | 6.60                       |
|                | I-4000 | 1-3/4" | 0.02  | 0.04  | 0.06  | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.29 | 0.39 |      |      |      |      |      | 2948                                  | 1.16            | 6.60                       |



LOAD in LB / SQUARE FOOT (PSF)

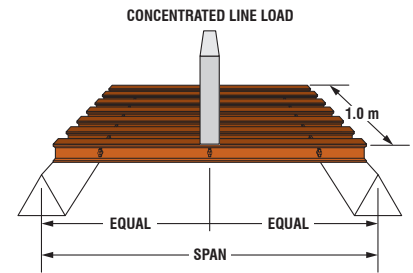
| SPAN<br>INCHES | STYLE  |        | 50   | 100  | 150  | 200  | 250  | 300  | 400  | 500  | 750  | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>6</sup><br>PSI |
|----------------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------------|-----------------|----------------------------|
|                | SERIES | DEPTH  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                       |                 |                            |
| 54             | I-6000 | 1-1/2" | 0.08 | 0.16 | 0.23 | 0.31 | 0.39 | 0.47 | 0.62 |      |      |      |      |      |      |      |      | 1161                                  | 1.81            | 6.70                       |
|                | I-5500 | 1-1/2" | 0.07 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.56 |      |      |      |      |      |      |      |      | 1306                                  | 1.81            | 6.70                       |
|                | I-4800 | 1-1/2" | 0.06 | 0.12 | 0.18 | 0.24 | 0.30 | 0.36 | 0.48 | 0.60 |      |      |      |      |      |      |      | 1501                                  | 1.81            | 6.70                       |
|                | I-4000 | 1-1/2" | 0.05 | 0.10 | 0.16 | 0.21 | 0.26 | 0.31 | 0.42 | 0.52 |      |      |      |      |      |      |      | 1742                                  | 1.81            | 6.70                       |
|                | I-6000 | 1-3/4" | 0.05 | 0.09 | 0.14 | 0.19 | 0.23 | 0.28 | 0.37 | 0.47 |      |      |      |      |      |      |      | 1553                                  | 1.45            | 6.70                       |
|                | I-5500 | 1-3/4" | 0.04 | 0.08 | 0.12 | 0.17 | 0.21 | 0.25 | 0.33 | 0.41 |      |      |      |      |      |      |      | 1747                                  | 1.45            | 6.70                       |
|                | I-4800 | 1-3/4" | 0.04 | 0.07 | 0.11 | 0.14 | 0.18 | 0.22 | 0.29 | 0.36 | 0.54 |      |      |      |      |      |      | 2007                                  | 1.45            | 6.70                       |
|                | I-4000 | 1-3/4" | 0.03 | 0.06 | 0.09 | 0.12 | 0.16 | 0.19 | 0.25 | 0.31 | 0.47 |      |      |      |      |      |      | 2330                                  | 1.45            | 6.70                       |
| 60             | I-6000 | 1-1/2" | 0.12 | 0.24 | 0.35 | 0.47 | 0.59 |      |      |      |      |      |      |      |      |      |      | 940                                   | 2.21            | 6.77                       |
|                | I-5500 | 1-1/2" | 0.10 | 0.21 | 0.31 | 0.42 | 0.52 | 0.63 |      |      |      |      |      |      |      |      |      | 1058                                  | 2.21            | 6.77                       |
|                | I-4800 | 1-1/2" | 0.09 | 0.18 | 0.27 | 0.36 | 0.46 | 0.55 |      |      |      |      |      |      |      |      |      | 1215                                  | 2.22            | 6.77                       |
|                | I-4000 | 1-1/2" | 0.08 | 0.16 | 0.24 | 0.31 | 0.39 | 0.47 | 0.63 |      |      |      |      |      |      |      |      | 1410                                  | 2.21            | 6.77                       |
|                | I-6000 | 1-3/4" | 0.07 | 0.14 | 0.21 | 0.28 | 0.35 | 0.42 | 0.56 |      |      |      |      |      |      |      |      | 1258                                  | 1.77            | 6.77                       |
|                | I-5500 | 1-3/4" | 0.06 | 0.12 | 0.19 | 0.25 | 0.31 | 0.37 | 0.50 |      |      |      |      |      |      |      |      | 1415                                  | 1.77            | 6.77                       |
|                | I-4800 | 1-3/4" | 0.05 | 0.11 | 0.16 | 0.22 | 0.27 | 0.33 | 0.43 | 0.54 |      |      |      |      |      |      |      | 1626                                  | 1.77            | 6.77                       |
|                | I-4000 | 1-3/4" | 0.05 | 0.09 | 0.14 | 0.19 | 0.23 | 0.28 | 0.37 | 0.47 |      |      |      |      |      |      |      | 1887                                  | 1.77            | 6.77                       |
| 66             | I-6000 | 1-1/2" | 0.17 | 0.34 | 0.52 |      |      |      |      |      |      |      |      |      |      |      |      | 777                                   | 2.67            | 6.80                       |
|                | I-5500 | 1-1/2" | 0.15 | 0.31 | 0.46 | 0.61 |      |      |      |      |      |      |      |      |      |      |      | 874                                   | 2.67            | 6.80                       |
|                | I-4800 | 1-1/2" | 0.13 | 0.27 | 0.40 | 0.53 |      |      |      |      |      |      |      |      |      |      |      | 1004                                  | 2.67            | 6.80                       |
|                | I-4000 | 1-1/2" | 0.11 | 0.23 | 0.34 | 0.46 | 0.57 |      |      |      |      |      |      |      |      |      |      | 1166                                  | 2.67            | 6.80                       |
|                | I-6000 | 1-3/4" | 0.10 | 0.20 | 0.31 | 0.41 | 0.51 | 0.61 |      |      |      |      |      |      |      |      |      | 1039                                  | 2.13            | 6.80                       |
|                | I-5500 | 1-3/4" | 0.09 | 0.18 | 0.27 | 0.36 | 0.45 | 0.55 |      |      |      |      |      |      |      |      |      | 1169                                  | 2.13            | 6.80                       |
|                | I-4800 | 1-3/4" | 0.08 | 0.16 | 0.24 | 0.32 | 0.40 | 0.48 |      |      |      |      |      |      |      |      |      | 1343                                  | 2.13            | 6.80                       |
|                | I-4000 | 1-3/4" | 0.07 | 0.14 | 0.20 | 0.27 | 0.34 | 0.41 | 0.55 |      |      |      |      |      |      |      |      | 1559                                  | 2.13            | 6.80                       |
| 72             | I-6000 | 1-1/2" | 0.24 | 0.49 |      |      |      |      |      |      |      |      |      |      |      |      |      | 653                                   | 3.18            | 6.80                       |
|                | I-5500 | 1-1/2" | 0.22 | 0.43 |      |      |      |      |      |      |      |      |      |      |      |      |      | 735                                   | 3.18            | 6.80                       |
|                | I-4800 | 1-1/2" | 0.19 | 0.38 | 0.56 |      |      |      |      |      |      |      |      |      |      |      |      | 844                                   | 3.18            | 6.80                       |
|                | I-4000 | 1-1/2" | 0.16 | 0.32 | 0.49 |      |      |      |      |      |      |      |      |      |      |      |      | 980                                   | 3.18            | 6.80                       |
|                | I-6000 | 1-3/4" | 0.14 | 0.29 | 0.43 | 0.58 |      |      |      |      |      |      |      |      |      |      |      | 873                                   | 2.53            | 6.80                       |
|                | I-5500 | 1-3/4" | 0.13 | 0.26 | 0.39 | 0.52 |      |      |      |      |      |      |      |      |      |      |      | 982                                   | 2.53            | 6.80                       |
|                | I-4800 | 1-3/4" | 0.11 | 0.22 | 0.34 | 0.45 | 0.56 |      |      |      |      |      |      |      |      |      |      | 1128                                  | 2.53            | 6.80                       |
|                | I-4000 | 1-3/4" | 0.10 | 0.19 | 0.29 | 0.39 | 0.48 | 0.58 |      |      |      |      |      |      |      |      |      | 1310                                  | 2.53            | 6.80                       |
| 78             | I-6000 | 1-3/4" | 0.20 | 0.40 | 0.60 |      |      |      |      |      |      |      |      |      |      |      |      | 744                                   | 2.97            | 6.80                       |
|                | I-5500 | 1-3/4" | 0.18 | 0.35 | 0.53 |      |      |      |      |      |      |      |      |      |      |      |      | 837                                   | 2.97            | 6.80                       |
|                | I-4800 | 1-3/4" | 0.15 | 0.31 | 0.46 |      |      |      |      |      |      |      |      |      |      |      |      | 962                                   | 2.97            | 6.80                       |
|                | I-4000 | 1-3/4" | 0.13 | 0.27 | 0.40 | 0.53 |      |      |      |      |      |      |      |      |      |      |      | 1116                                  | 2.97            | 6.80                       |

# DURAGRID® Phenolic Pultruded Grating

## Concentrated Line Load (Deflection in Millimeters)

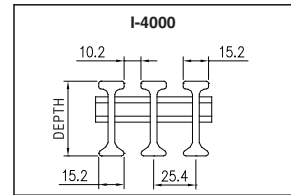
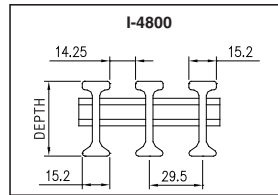
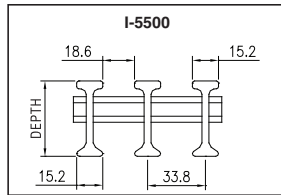
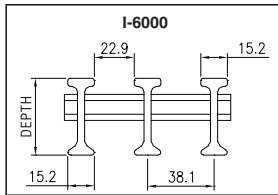
NOTE: Bearing bar spacing on center: I-6000 = 38.1mm I-5500 = 33.8mm  
I-4800 = 29.5mm I-4000 = 25.4mm

NOTE: The red area (  ) indicates at what point the load weight has ≤ 6.35mm deflection.



LOAD in kN / METER of WIDTH

| SPAN<br>M | STYLE  |       | 3    | 5    | 7.5                                              | 10                                               | 13                                               | 15                                               | 20                                               | 25                                               | 39                                               | 50                                               | 100                                              | 150                                              | 200 | 250 | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>10</sup><br>N/m <sup>2</sup> |
|-----------|--------|-------|------|------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|-----|-----|---------------------------------------|-----------------|------------------------------------------|
|           | SERIES | DEPTH |      |      |                                                  |                                                  |                                                  |                                                  |                                                  |                                                  |                                                  |                                                  |                                                  |                                                  |     |     |                                       |                 |                                          |
| 0.6       | I-6000 | 38mm  | 0.31 | 0.51 | 0.77                                             | 1.02                                             | 1.33                                             | 1.53                                             | 2.04                                             | 2.55                                             | 3.98                                             | 5.11                                             |                                                  |                                                  |     |     | 79                                    | 8.1             | 3.66                                     |
|           | I-5500 | 38mm  | 0.27 | 0.45 | 0.68                                             | 0.91                                             | 1.18                                             | 1.36                                             | 1.82                                             | 2.27                                             | 3.54                                             | 4.54                                             |                                                  |                                                  |     |     | 89                                    | 8.1             | 3.66                                     |
|           | I-4800 | 38mm  | 0.24 | 0.40 | 0.59                                             | 0.79                                             | 1.03                                             | 1.19                                             | 1.58                                             | 1.98                                             | 3.09                                             | <span style="border: 1px solid red;">3.96</span> | 7.91                                             |                                                  |     |     | 102                                   | 8.1             | 3.66                                     |
|           | I-4000 | 38mm  | 0.20 | 0.34 | 0.51                                             | 0.68                                             | 0.89                                             | 1.02                                             | 1.36                                             | 1.70                                             | 2.66                                             | <span style="border: 1px solid red;">3.41</span> | 6.81                                             |                                                  |     |     | 119                                   | 8.1             | 3.66                                     |
|           | I-6000 | 45mm  | 0.18 | 0.30 | 0.46                                             | 0.61                                             | 0.79                                             | 0.91                                             | 1.22                                             | 1.52                                             | 2.37                                             | 3.04                                             | <span style="border: 1px solid red;">6.09</span> |                                                  |     |     | 105                                   | 6.4             | 3.66                                     |
|           | I-5500 | 45mm  | 0.16 | 0.27 | 0.41                                             | 0.54                                             | 0.70                                             | 0.81                                             | 1.08                                             | 1.35                                             | 2.11                                             | 2.71                                             | 5.41                                             |                                                  |     |     | 118                                   | 6.4             | 3.66                                     |
|           | I-4800 | 45mm  | 0.14 | 0.24 | 0.35                                             | 0.47                                             | 0.61                                             | 0.71                                             | 0.94                                             | 1.18                                             | 1.84                                             | 2.36                                             | 4.71                                             |                                                  |     |     | 136                                   | 6.4             | 3.66                                     |
|           | I-4000 | 45mm  | 0.12 | 0.20 | 0.30                                             | 0.41                                             | 0.53                                             | 0.61                                             | 0.81                                             | 1.01                                             | 1.58                                             | 2.03                                             | 4.06                                             | <span style="border: 1px solid red;">6.09</span> |     |     | 158                                   | 6.4             | 3.66                                     |
| 0.8       | I-6000 | 38mm  | 0.68 | 1.14 | 1.70                                             | 2.27                                             | 2.95                                             | 3.41                                             | 4.54                                             | <span style="border: 1px solid red;">5.68</span> | 8.86                                             | 11.36                                            |                                                  |                                                  |     |     | 69                                    | 15.7            | 3.90                                     |
|           | I-5500 | 38mm  | 0.61 | 1.01 | 1.51                                             | 2.02                                             | 2.63                                             | 3.03                                             | 4.04                                             | <span style="border: 1px solid red;">5.05</span> | 7.88                                             | 10.10                                            |                                                  |                                                  |     |     | 78                                    | 15.7            | 3.90                                     |
|           | I-4800 | 38mm  | 0.53 | 0.88 | 1.32                                             | 1.76                                             | 2.29                                             | 2.64                                             | 3.52                                             | <span style="border: 1px solid red;">4.40</span> | 6.86                                             | 8.80                                             |                                                  |                                                  |     |     | 89                                    | 15.7            | 3.90                                     |
|           | I-4000 | 38mm  | 0.45 | 0.76 | 1.14                                             | 1.52                                             | 1.97                                             | 2.27                                             | 3.03                                             | 3.79                                             | <span style="border: 1px solid red;">5.91</span> | 7.58                                             |                                                  |                                                  |     |     | 104                                   | 15.7            | 3.90                                     |
|           | I-6000 | 45mm  | 0.41 | 0.68 | 1.02                                             | 1.35                                             | 1.76                                             | 2.03                                             | 2.71                                             | 3.38                                             | <span style="border: 1px solid red;">5.28</span> | 6.77                                             |                                                  |                                                  |     |     | 87                                    | 11.8            | 3.90                                     |
|           | I-5500 | 45mm  | 0.36 | 0.60 | 0.90                                             | 1.20                                             | 1.56                                             | 1.81                                             | 2.41                                             | 3.01                                             | 4.69                                             | <span style="border: 1px solid red;">6.02</span> |                                                  |                                                  |     |     | 98                                    | 11.8            | 3.90                                     |
|           | I-4800 | 45mm  | 0.31 | 0.52 | 0.79                                             | 1.05                                             | 1.36                                             | 1.57                                             | 2.10                                             | 2.62                                             | 4.09                                             | <span style="border: 1px solid red;">5.24</span> | 10.48                                            |                                                  |     |     | 112                                   | 11.8            | 3.90                                     |
|           | I-4000 | 45mm  | 0.27 | 0.45 | 0.68                                             | 0.90                                             | 1.17                                             | 1.35                                             | 1.81                                             | 2.26                                             | 3.52                                             | <span style="border: 1px solid red;">4.51</span> | 9.03                                             |                                                  |     |     | 131                                   | 11.8            | 3.90                                     |
| 1.0       | I-6000 | 38mm  | 1.23 | 2.06 | 3.08                                             | 4.11                                             | 5.34                                             | <span style="border: 1px solid red;">6.17</span> | 8.22                                             | 10.28                                            |                                                  |                                                  |                                                  |                                                  |     |     | 65                                    | 26.7            | 4.21                                     |
|           | I-5500 | 38mm  | 1.10 | 1.83 | 2.74                                             | 3.65                                             | 4.75                                             | <span style="border: 1px solid red;">5.48</span> | 7.31                                             | 9.14                                             | 14.25                                            |                                                  |                                                  |                                                  |     |     | 73                                    | 26.8            | 4.21                                     |
|           | I-4800 | 38mm  | 0.96 | 1.59 | 2.39                                             | 3.18                                             | 4.14                                             | <span style="border: 1px solid red;">4.78</span> | 6.37                                             | 7.96                                             | 12.42                                            | 15.92                                            |                                                  |                                                  |     |     | 84                                    | 26.8            | 4.21                                     |
|           | I-4000 | 38mm  | 0.82 | 1.37 | 2.06                                             | 2.74                                             | 3.56                                             | 4.11                                             | <span style="border: 1px solid red;">5.48</span> | 6.85                                             | 10.69                                            | 13.71                                            |                                                  |                                                  |     |     | 98                                    | 26.7            | 4.21                                     |
|           | I-6000 | 45mm  | 0.73 | 1.22 | 1.84                                             | 2.45                                             | 3.18                                             | 3.67                                             | 4.90                                             | <span style="border: 1px solid red;">6.12</span> | 9.55                                             | 12.25                                            |                                                  |                                                  |     |     | 70                                    | 17.1            | 4.21                                     |
|           | I-5500 | 45mm  | 0.65 | 1.09 | 1.63                                             | 2.18                                             | 2.83                                             | 3.27                                             | 4.36                                             | <span style="border: 1px solid red;">5.45</span> | 8.49                                             | 10.89                                            |                                                  |                                                  |     |     | 79                                    | 17.2            | 4.21                                     |
|           | I-4800 | 45mm  | 0.57 | 0.95 | 1.42                                             | 1.90                                             | 2.47                                             | 2.85                                             | 3.79                                             | <span style="border: 1px solid red;">4.74</span> | 7.40                                             | 9.48                                             |                                                  |                                                  |     |     | 90                                    | 17.1            | 4.21                                     |
|           | I-4000 | 45mm  | 0.49 | 0.82 | 1.23                                             | 1.63                                             | 2.12                                             | 2.45                                             | 3.27                                             | <span style="border: 1px solid red;">4.08</span> | 6.37                                             | 8.17                                             |                                                  |                                                  |     |     | 105                                   | 17.2            | 4.21                                     |
| 1.12      | I-6000 | 38mm  | 1.65 | 2.74 | 4.12                                             | <span style="border: 1px solid red;">5.49</span> | 7.13                                             | 8.23                                             | 10.98                                            |                                                  |                                                  |                                                  |                                                  |                                                  |     |     | 47                                    | 25.8            | 4.43                                     |
|           | I-5500 | 38mm  | 1.46 | 2.44 | 3.66                                             | 4.88                                             | <span style="border: 1px solid red;">6.34</span> | 7.32                                             | 9.76                                             | 12.20                                            |                                                  |                                                  |                                                  |                                                  |     |     | 53                                    | 25.9            | 4.43                                     |
|           | I-4800 | 38mm  | 1.28 | 2.13 | 3.19                                             | 4.25                                             | <span style="border: 1px solid red;">5.53</span> | 6.38                                             | 8.50                                             | 10.63                                            | 16.58                                            |                                                  |                                                  |                                                  |     |     | 61                                    | 25.8            | 4.43                                     |
|           | I-4000 | 38mm  | 1.10 | 1.83 | 2.75                                             | 3.66                                             | 4.76                                             | <span style="border: 1px solid red;">5.49</span> | 7.32                                             | 9.15                                             | 14.28                                            |                                                  |                                                  |                                                  |     |     | 71                                    | 25.8            | 4.43                                     |
|           | I-6000 | 45mm  | 0.98 | 1.64 | 2.45                                             | 3.27                                             | 4.25                                             | <span style="border: 1px solid red;">4.91</span> | 6.54                                             | 8.18                                             | 12.76                                            |                                                  |                                                  |                                                  |     |     | 62                                    | 20.3            | 4.43                                     |
|           | I-5500 | 45mm  | 0.87 | 1.45 | 2.18                                             | 2.91                                             | 3.78                                             | 4.36                                             | <span style="border: 1px solid red;">5.82</span> | 7.27                                             | 11.34                                            | 14.54                                            |                                                  |                                                  |     |     | 70                                    | 20.3            | 4.43                                     |
|           | I-4800 | 45mm  | 0.76 | 1.27 | 1.90                                             | 2.53                                             | 3.29                                             | 3.80                                             | 5.06                                             | <span style="border: 1px solid red;">6.33</span> | 9.88                                             | 12.66                                            |                                                  |                                                  |     |     | 80                                    | 20.3            | 4.43                                     |
|           | I-4000 | 45mm  | 0.65 | 1.09 | 1.64                                             | 2.18                                             | 2.84                                             | 3.27                                             | 4.36                                             | <span style="border: 1px solid red;">5.45</span> | 8.51                                             | 10.91                                            |                                                  |                                                  |     |     | 93                                    | 20.3            | 4.43                                     |
| 1.2       | I-6000 | 38mm  | 1.97 | 3.29 | <span style="border: 1px solid red;">4.93</span> | 6.57                                             | 8.54                                             | 9.86                                             | 13.14                                            |                                                  |                                                  |                                                  |                                                  |                                                  |     |     | 43                                    | 28.3            | 4.55                                     |
|           | I-5500 | 38mm  | 1.75 | 2.92 | 4.38                                             | <span style="border: 1px solid red;">5.84</span> | 7.60                                             | 8.77                                             | 11.69                                            |                                                  |                                                  |                                                  |                                                  |                                                  |     |     | 48                                    | 28.3            | 4.55                                     |
|           | I-4800 | 38mm  | 1.53 | 2.55 | 3.82                                             | <span style="border: 1px solid red;">5.09</span> | 6.62                                             | 7.64                                             | 10.18                                            | 12.73                                            |                                                  |                                                  |                                                  |                                                  |     |     | 56                                    | 28.3            | 4.55                                     |
|           | I-4000 | 38mm  | 1.32 | 2.19 | 3.29                                             | 4.38                                             | <span style="border: 1px solid red;">5.70</span> | 6.58                                             | 8.77                                             | 10.96                                            |                                                  |                                                  |                                                  |                                                  |     |     | 65                                    | 28.3            | 4.55                                     |
|           | I-6000 | 45mm  | 1.18 | 1.96 | 2.94                                             | 3.92                                             | 5.09                                             | <span style="border: 1px solid red;">5.88</span> | 7.83                                             | 9.79                                             |                                                  |                                                  |                                                  |                                                  |     |     | 58                                    | 22.7            | 4.55                                     |
|           | I-5500 | 45mm  | 1.04 | 1.74 | 2.61                                             | 3.48                                             | 4.53                                             | <span style="border: 1px solid red;">5.22</span> | 6.96                                             | 8.71                                             | 13.58                                            |                                                  |                                                  |                                                  |     |     | 65                                    | 22.8            | 4.55                                     |
|           | I-4800 | 45mm  | 0.91 | 1.52 | 2.27                                             | 3.03                                             | 3.94                                             | 4.55                                             | <span style="border: 1px solid red;">6.07</span> | 7.58                                             | 11.83                                            | 15.16                                            |                                                  |                                                  |     |     | 75                                    | 22.7            | 4.55                                     |
|           | I-4000 | 45mm  | 0.78 | 1.31 | 1.96                                             | 2.61                                             | 3.40                                             | 3.92                                             | <span style="border: 1px solid red;">5.22</span> | 6.53                                             | 10.19                                            | 13.06                                            |                                                  |                                                  |     |     | 87                                    | 22.7            | 4.55                                     |



LOAD in kN / METER of WIDTH

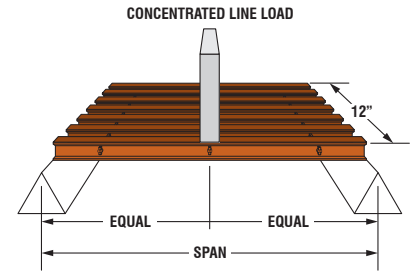
| SPAN<br>M | STYLE  |       |      |       |       |       |       |       |       |       |    |    |     |     |     |     | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>10</sup><br>N/m <sup>2</sup> |
|-----------|--------|-------|------|-------|-------|-------|-------|-------|-------|-------|----|----|-----|-----|-----|-----|---------------------------------------|-----------------|------------------------------------------|
|           | SERIES | DEPTH | 3    | 5     | 7.5   | 10    | 13    | 15    | 20    | 25    | 39 | 50 | 100 | 150 | 200 | 250 |                                       |                 |                                          |
| 1.4       | I-6000 | 38mm  | 3.08 | 5.14  | 7.71  | 10.28 | 13.36 |       |       |       |    |    |     |     |     |     | 38                                    | 39.1            | 4.62                                     |
|           | I-5500 | 38mm  | 2.74 | 4.57  | 6.85  | 9.14  | 11.88 | 13.71 |       |       |    |    |     |     |     |     | 43                                    | 39.2            | 4.62                                     |
|           | I-4800 | 38mm  | 2.39 | 3.98  | 5.97  | 7.96  | 10.35 | 11.94 | 15.93 |       |    |    |     |     |     |     | 49                                    | 39.1            | 4.62                                     |
|           | I-4000 | 38mm  | 2.06 | 3.43  | 5.14  | 6.86  | 8.91  | 10.28 | 13.71 |       |    |    |     |     |     |     | 57                                    | 39.1            | 4.62                                     |
|           | I-6000 | 45mm  | 1.84 | 3.06  | 4.59  | 6.13  | 7.96  | 9.19  | 12.25 |       |    |    |     |     |     |     | 50                                    | 30.6            | 4.62                                     |
|           | I-5500 | 45mm  | 1.63 | 2.72  | 4.08  | 5.45  | 7.08  | 8.17  | 10.89 | 13.62 |    |    |     |     |     |     | 56                                    | 30.7            | 4.62                                     |
|           | I-4800 | 45mm  | 1.42 | 2.37  | 3.56  | 4.74  | 6.17  | 7.11  | 9.49  | 11.86 |    |    |     |     |     |     | 65                                    | 30.6            | 4.62                                     |
|           | I-4000 | 45mm  | 1.23 | 2.04  | 3.06  | 4.09  | 5.31  | 6.13  | 8.17  | 10.21 |    |    |     |     |     |     | 75                                    | 30.6            | 4.62                                     |
| 1.6       | I-6000 | 38mm  | 4.53 | 7.56  | 11.33 |       |       |       |       |       |    |    |     |     |     |     | 32                                    | 48.4            | 4.69                                     |
|           | I-5500 | 38mm  | 4.03 | 6.72  | 10.08 | 13.44 |       |       |       |       |    |    |     |     |     |     | 36                                    | 48.5            | 4.69                                     |
|           | I-4800 | 38mm  | 3.51 | 5.85  | 8.78  | 11.71 | 15.22 |       |       |       |    |    |     |     |     |     | 41                                    | 48.4            | 4.69                                     |
|           | I-4000 | 38mm  | 3.02 | 5.04  | 7.56  | 10.08 | 13.10 |       |       |       |    |    |     |     |     |     | 48                                    | 48.4            | 4.69                                     |
|           | I-6000 | 45mm  | 2.70 | 4.50  | 6.76  | 9.01  | 11.71 | 13.51 |       |       |    |    |     |     |     |     | 44                                    | 39.6            | 4.69                                     |
|           | I-5500 | 45mm  | 2.40 | 4.00  | 6.01  | 8.01  | 10.41 | 12.01 |       |       |    |    |     |     |     |     | 50                                    | 39.7            | 4.69                                     |
|           | I-4800 | 45mm  | 2.09 | 3.49  | 5.23  | 6.97  | 9.07  | 10.46 | 13.95 |       |    |    |     |     |     |     | 57                                    | 39.6            | 4.69                                     |
|           | I-4000 | 45mm  | 1.80 | 3.00  | 4.51  | 6.01  | 7.81  | 9.01  | 12.01 |       |    |    |     |     |     |     | 66                                    | 39.6            | 4.69                                     |
| 1.8       | I-6000 | 38mm  | 6.46 | 10.76 |       |       |       |       |       |       |    |    |     |     |     |     | 29                                    | 62.4            | 4.69                                     |
|           | I-5500 | 38mm  | 5.74 | 9.57  | 14.35 |       |       |       |       |       |    |    |     |     |     |     | 33                                    | 62.6            | 4.69                                     |
|           | I-4800 | 38mm  | 5.00 | 8.34  | 12.50 |       |       |       |       |       |    |    |     |     |     |     | 37                                    | 62.5            | 4.69                                     |
|           | I-4000 | 38mm  | 4.31 | 7.18  | 10.76 |       |       |       |       |       |    |    |     |     |     |     | 44                                    | 62.4            | 4.69                                     |
|           | I-6000 | 45mm  | 3.85 | 6.41  | 9.62  | 12.82 |       |       |       |       |    |    |     |     |     |     | 39                                    | 50.0            | 4.69                                     |
|           | I-5500 | 45mm  | 3.42 | 5.70  | 8.55  | 11.40 |       |       |       |       |    |    |     |     |     |     | 44                                    | 50.2            | 4.69                                     |
|           | I-4800 | 45mm  | 2.98 | 4.96  | 7.45  | 9.93  | 12.91 | 14.89 |       |       |    |    |     |     |     |     | 50                                    | 50.0            | 4.69                                     |
|           | I-4000 | 45mm  | 2.57 | 4.28  | 6.41  | 8.55  | 11.12 | 12.83 |       |       |    |    |     |     |     |     | 59                                    | 50.0            | 4.69                                     |
| 2.0       | I-6000 | 45mm  | 5.28 | 8.80  | 13.19 |       |       |       |       |       |    |    |     |     |     |     | 35                                    | 61.6            | 4.69                                     |
|           | I-5500 | 45mm  | 4.69 | 7.82  | 11.73 |       |       |       |       |       |    |    |     |     |     |     | 39                                    | 61.7            | 4.69                                     |
|           | I-4800 | 45mm  | 4.09 | 6.81  | 10.22 | 13.62 |       |       |       |       |    |    |     |     |     |     | 45                                    | 61.6            | 4.69                                     |
|           | I-4000 | 45mm  | 3.52 | 5.87  | 8.80  | 11.73 |       |       |       |       |    |    |     |     |     |     | 53                                    | 61.6            | 4.69                                     |

# DURAGRID® Phenolic Pultruded Grating

## Concentrated Line Load (Deflection in Inches)

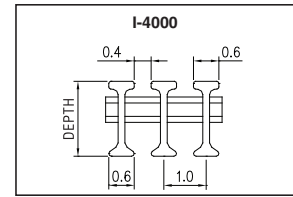
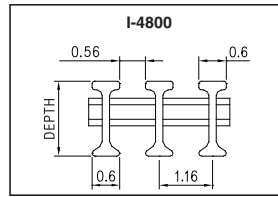
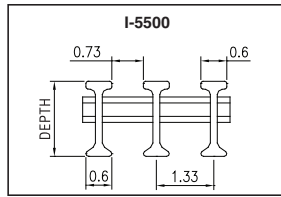
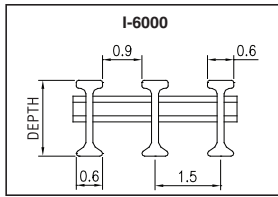
NOTE: Bearing bar spacing on center: I-6000 = 1.5" I-5500 = 1.33"  
I-4800 = 1.16" I-4000 = 1.00"

NOTE: The red area ( ) indicates at what point the load weight has ≤ 0.25" deflection.



LOAD in LB / FOOT of WIDTH

| SPAN<br>INCHES | STYLE  |        |       |       |       |       |      |      |      |      |      |      |      |      |      |      | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>6</sup><br>PSI |      |
|----------------|--------|--------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|---------------------------------------|-----------------|----------------------------|------|
|                | SERIES | DEPTH  | 50    | 100   | 150   | 200   | 250  | 300  | 400  | 500  | 750  | 1000 | 2000 | 3000 | 4000 | 5000 |                                       |                 |                            | 6000 |
| 24             | I-6000 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.01  | 0.02 | 0.02 | 0.02 | 0.03 | 0.05 | 0.06 | 0.12 | 0.18 | 0.25 | 0.31 |                                       | 5388            | 0.33                       | 5.31 |
|                | I-5500 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.01  | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.11 | 0.16 | 0.22 | 0.27 | 0.33                                  | 6,062           | 0.33                       | 5.31 |
|                | I-4800 | 1-1/2" | <0.01 | <0.01 | 0.01  | 0.01  | 0.01 | 0.01 | 0.02 | 0.02 | 0.04 | 0.05 | 0.10 | 0.14 | 0.19 | 0.24 | 0.29                                  | 6964            | 0.33                       | 5.31 |
|                | I-4000 | 1-1/2" | <0.01 | <0.01 | 0.01  | 0.01  | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.08 | 0.12 | 0.16 | 0.21 | 0.25                                  | 8082            | 0.33                       | 5.31 |
|                | I-6000 | 1-3/4" | <0.01 | <0.01 | 0.01  | 0.01  | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.07 | 0.11 | 0.15 | 0.18 | 0.22                                  | 7206            | 0.26                       | 5.31 |
|                | I-5500 | 1-3/4" | <0.01 | <0.01 | <0.01 | 0.01  | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.07 | 0.10 | 0.13 | 0.16 | 0.20                                  | 8107            | 0.26                       | 5.31 |
|                | I-4800 | 1-3/4" | <0.01 | <0.01 | <0.01 | 0.01  | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.06 | 0.09 | 0.11 | 0.14 | 0.17                                  | 9314            | 0.26                       | 5.31 |
|                | I-4000 | 1-3/4" | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.05 | 0.07 | 0.10 | 0.12 | 0.15                                  | 10809           | 0.26                       | 5.31 |
| 30             | I-6000 | 1-1/2" | 0.01  | 0.01  | 0.02  | 0.02  | 0.03 | 0.03 | 0.05 | 0.06 | 0.09 | 0.11 | 0.23 | 0.34 | 0.46 |      |                                       | 4702            | 0.54                       | 5.60 |
|                | I-5500 | 1-1/2" | 0.01  | 0.01  | 0.02  | 0.02  | 0.03 | 0.03 | 0.04 | 0.05 | 0.08 | 0.10 | 0.20 | 0.30 | 0.41 | 0.51 |                                       | 5,290           | 0.54                       | 5.60 |
|                | I-4800 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.02  | 0.02 | 0.03 | 0.04 | 0.04 | 0.07 | 0.09 | 0.18 | 0.26 | 0.35 | 0.44 | 0.53                                  | 6077            | 0.54                       | 5.60 |
|                | I-4000 | 1-1/2" | <0.01 | 0.01  | 0.01  | 0.02  | 0.02 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.15 | 0.23 | 0.30 | 0.38 | 0.46                                  | 7053            | 0.54                       | 5.60 |
|                | I-6000 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.01  | 0.02 | 0.02 | 0.03 | 0.03 | 0.05 | 0.07 | 0.14 | 0.20 | 0.27 | 0.34 | 0.41                                  | 6288            | 0.43                       | 5.60 |
|                | I-5500 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.01  | 0.02 | 0.02 | 0.02 | 0.03 | 0.05 | 0.06 | 0.12 | 0.18 | 0.24 | 0.30 | 0.36                                  | 7074            | 0.43                       | 5.60 |
|                | I-4800 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.01  | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.11 | 0.16 | 0.21 | 0.26 | 0.32                                  | 8127            | 0.43                       | 5.60 |
|                | I-4000 | 1-3/4" | <0.01 | <0.01 | 0.01  | 0.01  | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.05 | 0.09 | 0.14 | 0.18 | 0.23 | 0.27                                  | 9432            | 0.43                       | 5.60 |
| 36             | I-6000 | 1-1/2" | 0.01  | 0.02  | 0.03  | 0.04  | 0.05 | 0.06 | 0.07 | 0.09 | 0.14 | 0.18 | 0.37 | 0.55 |      |      |                                       | 3918            | 0.72                       | 6.00 |
|                | I-5500 | 1-1/2" | 0.01  | 0.02  | 0.02  | 0.03  | 0.04 | 0.05 | 0.07 | 0.08 | 0.12 | 0.16 | 0.33 | 0.49 | 0.65 |      |                                       | 4,408           | 0.72                       | 6.00 |
|                | I-4800 | 1-1/2" | 0.01  | 0.01  | 0.02  | 0.03  | 0.04 | 0.04 | 0.06 | 0.07 | 0.11 | 0.14 | 0.28 | 0.43 | 0.57 |      |                                       | 5064            | 0.72                       | 6.00 |
|                | I-4000 | 1-1/2" | 0.01  | 0.01  | 0.02  | 0.02  | 0.03 | 0.04 | 0.05 | 0.06 | 0.09 | 0.12 | 0.25 | 0.37 | 0.49 | 0.61 |                                       | 5877            | 0.72                       | 6.00 |
|                | I-6000 | 1-3/4" | 0.01  | 0.01  | 0.02  | 0.02  | 0.03 | 0.03 | 0.04 | 0.05 | 0.08 | 0.11 | 0.22 | 0.33 | 0.44 | 0.55 |                                       | 5240            | 0.57                       | 6.00 |
|                | I-5500 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.02  | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.10 | 0.19 | 0.29 | 0.39 | 0.49 |                                       | 5895            | 0.57                       | 6.00 |
|                | I-4800 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.02  | 0.02 | 0.03 | 0.03 | 0.04 | 0.06 | 0.08 | 0.17 | 0.25 | 0.34 | 0.42 | 0.51                                  | 6773            | 0.57                       | 6.00 |
|                | I-4000 | 1-3/4" | <0.01 | 0.01  | 0.01  | 0.01  | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.15 | 0.22 | 0.29 | 0.37 | 0.44                                  | 7860            | 0.57                       | 6.00 |
| 42             | I-6000 | 1-1/2" | 0.01  | 0.03  | 0.04  | 0.06  | 0.07 | 0.08 | 0.11 | 0.14 | 0.21 | 0.28 | 0.55 |      |      |      |                                       | 3358            | 0.93                       | 6.34 |
|                | I-5500 | 1-1/2" | 0.01  | 0.02  | 0.04  | 0.05  | 0.06 | 0.07 | 0.10 | 0.12 | 0.18 | 0.25 | 0.49 |      |      |      |                                       | 3,778           | 0.93                       | 6.34 |
|                | I-4800 | 1-1/2" | 0.01  | 0.02  | 0.03  | 0.04  | 0.05 | 0.06 | 0.09 | 0.11 | 0.16 | 0.21 | 0.43 | 0.64 |      |      |                                       | 4340            | 0.93                       | 6.34 |
|                | I-4000 | 1-1/2" | 0.01  | 0.02  | 0.03  | 0.04  | 0.05 | 0.06 | 0.07 | 0.09 | 0.14 | 0.18 | 0.37 | 0.55 |      |      |                                       | 5037            | 0.93                       | 6.34 |
|                | I-6000 | 1-3/4" | 0.01  | 0.02  | 0.02  | 0.03  | 0.04 | 0.05 | 0.07 | 0.08 | 0.12 | 0.16 | 0.33 | 0.49 |      |      |                                       | 4492            | 0.74                       | 6.34 |
|                | I-5500 | 1-3/4" | 0.01  | 0.01  | 0.02  | 0.03  | 0.04 | 0.04 | 0.06 | 0.07 | 0.11 | 0.15 | 0.29 | 0.44 | 0.59 |      |                                       | 5054            | 0.74                       | 6.34 |
|                | I-4800 | 1-3/4" | 0.01  | 0.01  | 0.02  | 0.03  | 0.03 | 0.04 | 0.05 | 0.06 | 0.10 | 0.13 | 0.25 | 0.38 | 0.51 |      |                                       | 5806            | 0.74                       | 6.34 |
|                | I-4000 | 1-3/4" | 0.01  | 0.01  | 0.02  | 0.02  | 0.03 | 0.03 | 0.04 | 0.05 | 0.08 | 0.11 | 0.22 | 0.33 | 0.44 | 0.55 |                                       | 6738            | 0.74                       | 6.34 |
| 48             | I-6000 | 1-1/2" | 0.02  | 0.04  | 0.06  | 0.08  | 0.10 | 0.12 | 0.16 | 0.20 | 0.30 | 0.40 |      |      |      |      |                                       | 2939            | 1.16                       | 6.60 |
|                | I-5500 | 1-1/2" | 0.02  | 0.04  | 0.05  | 0.07  | 0.09 | 0.11 | 0.14 | 0.18 | 0.26 | 0.35 |      |      |      |      |                                       | 3,306           | 1.16                       | 6.60 |
|                | I-4800 | 1-1/2" | 0.02  | 0.03  | 0.05  | 0.06  | 0.08 | 0.09 | 0.12 | 0.15 | 0.23 | 0.31 | 0.61 |      |      |      |                                       | 3799            | 1.16                       | 6.60 |
|                | I-4000 | 1-1/2" | 0.01  | 0.03  | 0.04  | 0.05  | 0.07 | 0.08 | 0.11 | 0.13 | 0.20 | 0.26 | 0.53 |      |      |      |                                       | 4409            | 1.16                       | 6.60 |
|                | I-6000 | 1-3/4" | 0.01  | 0.02  | 0.04  | 0.05  | 0.06 | 0.07 | 0.09 | 0.12 | 0.18 | 0.24 | 0.47 |      |      |      |                                       | 3930            | 0.93                       | 6.60 |
|                | I-5500 | 1-3/4" | 0.01  | 0.02  | 0.03  | 0.04  | 0.05 | 0.06 | 0.08 | 0.10 | 0.16 | 0.21 | 0.42 |      |      |      |                                       | 4421            | 0.93                       | 6.60 |
|                | I-4800 | 1-3/4" | 0.01  | 0.02  | 0.03  | 0.04  | 0.05 | 0.05 | 0.07 | 0.09 | 0.14 | 0.18 | 0.37 | 0.55 |      |      |                                       | 5080            | 0.93                       | 6.60 |
|                | I-4000 | 1-3/4" | 0.01  | 0.02  | 0.02  | 0.03  | 0.04 | 0.05 | 0.06 | 0.08 | 0.12 | 0.16 | 0.31 | 0.47 |      |      |                                       | 5895            | 0.93                       | 6.60 |



LOAD in LB / FOOT of WIDTH

| SPAN<br>INCHES | STYLE  |        | 50   | 100  | 150  | 200  | 250  | 300  | 400  | 500  | 750  | 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | SAFE<br>LOAD, 2:1<br>SAFETY<br>FACTOR | DEFLEC-<br>TION | E X 10 <sup>6</sup><br>PSI |
|----------------|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------------|-----------------|----------------------------|
|                | SERIES | DEPTH  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                                       |                 |                            |
| 54             | I-6000 | 1-1/2" | 0.03 | 0.06 | 0.08 | 0.11 | 0.14 | 0.17 | 0.22 | 0.28 | 0.42 | 0.56 |      |      |      |      |      | 2612                                  | 1.45            | 6.70                       |
|                | I-5500 | 1-1/2" | 0.02 | 0.05 | 0.07 | 0.10 | 0.12 | 0.15 | 0.20 | 0.25 | 0.37 | 0.49 |      |      |      |      |      | 2,939                                 | 1.45            | 6.70                       |
|                | I-4800 | 1-1/2" | 0.02 | 0.04 | 0.06 | 0.09 | 0.11 | 0.13 | 0.17 | 0.21 | 0.32 | 0.43 |      |      |      |      |      | 3376                                  | 1.45            | 6.70                       |
|                | I-4000 | 1-1/2" | 0.02 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.15 | 0.19 | 0.28 | 0.37 |      |      |      |      |      | 3918                                  | 1.45            | 6.70                       |
|                | I-6000 | 1-3/4" | 0.02 | 0.03 | 0.05 | 0.07 | 0.08 | 0.10 | 0.13 | 0.17 | 0.25 | 0.33 |      |      |      |      |      | 3494                                  | 1.16            | 6.70                       |
|                | I-5500 | 1-3/4" | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.12 | 0.15 | 0.22 | 0.29 | 0.59 |      |      |      |      | 3931                                  | 1.16            | 6.70                       |
|                | I-4800 | 1-3/4" | 0.01 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.10 | 0.13 | 0.19 | 0.26 | 0.51 |      |      |      |      | 4516                                  | 1.16            | 6.70                       |
|                | I-4000 | 1-3/4" | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.11 | 0.17 | 0.22 | 0.44 |      |      |      |      | 5241                                  | 1.16            | 6.70                       |
| 60             | I-6000 | 1-1/2" | 0.04 | 0.08 | 0.11 | 0.15 | 0.19 | 0.23 | 0.30 | 0.38 | 0.57 |      |      |      |      |      |      | 2351                                  | 1.77            | 6.77                       |
|                | I-5500 | 1-1/2" | 0.03 | 0.07 | 0.10 | 0.13 | 0.17 | 0.20 | 0.27 | 0.34 | 0.50 |      |      |      |      |      |      | 2,645                                 | 1.77            | 6.77                       |
|                | I-4800 | 1-1/2" | 0.03 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.23 | 0.29 | 0.44 | 0.58 |      |      |      |      |      | 3039                                  | 1.77            | 6.77                       |
|                | I-4000 | 1-1/2" | 0.03 | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.20 | 0.25 | 0.38 | 0.50 |      |      |      |      |      | 3527                                  | 1.77            | 6.77                       |
|                | I-6000 | 1-3/4" | 0.02 | 0.04 | 0.07 | 0.09 | 0.11 | 0.13 | 0.18 | 0.22 | 0.34 | 0.45 |      |      |      |      |      | 3144                                  | 1.41            | 6.77                       |
|                | I-5500 | 1-3/4" | 0.02 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.30 | 0.40 |      |      |      |      |      | 3537                                  | 1.41            | 6.77                       |
|                | I-4800 | 1-3/4" | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.10 | 0.14 | 0.17 | 0.26 | 0.35 |      |      |      |      |      | 4064                                  | 1.41            | 6.77                       |
|                | I-4000 | 1-3/4" | 0.01 | 0.03 | 0.04 | 0.06 | 0.07 | 0.09 | 0.12 | 0.15 | 0.22 | 0.30 | 0.60 |      |      |      |      | 4716                                  | 1.41            | 6.77                       |
| 66             | I-6000 | 1-1/2" | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.40 | 0.50 |      |      |      |      |      |      |      | 2137                                  | 2.14            | 6.80                       |
|                | I-5500 | 1-1/2" | 0.04 | 0.09 | 0.13 | 0.18 | 0.22 | 0.27 | 0.36 | 0.44 |      |      |      |      |      |      |      | 2,404                                 | 2.13            | 6.80                       |
|                | I-4800 | 1-1/2" | 0.04 | 0.08 | 0.12 | 0.15 | 0.19 | 0.23 | 0.31 | 0.39 | 0.58 |      |      |      |      |      |      | 2762                                  | 2.14            | 6.80                       |
|                | I-4000 | 1-1/2" | 0.03 | 0.07 | 0.10 | 0.13 | 0.17 | 0.20 | 0.27 | 0.33 | 0.50 |      |      |      |      |      |      | 3206                                  | 2.14            | 6.80                       |
|                | I-6000 | 1-3/4" | 0.03 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.24 | 0.30 | 0.45 | 0.60 |      |      |      |      |      | 2858                                  | 1.70            | 6.80                       |
|                | I-5500 | 1-3/4" | 0.03 | 0.05 | 0.08 | 0.11 | 0.13 | 0.16 | 0.21 | 0.26 | 0.40 | 0.53 |      |      |      |      |      | 3215                                  | 1.70            | 6.80                       |
|                | I-4800 | 1-3/4" | 0.02 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.18 | 0.23 | 0.35 | 0.46 |      |      |      |      |      | 3694                                  | 1.70            | 6.80                       |
|                | I-4000 | 1-3/4" | 0.02 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.16 | 0.20 | 0.30 | 0.40 |      |      |      |      |      | 4287                                  | 1.70            | 6.80                       |
| 72             | I-6000 | 1-1/2" | 0.06 | 0.13 | 0.19 | 0.26 | 0.32 | 0.39 | 0.52 |      |      |      |      |      |      |      |      | 1959                                  | 2.54            | 6.80                       |
|                | I-5500 | 1-1/2" | 0.06 | 0.12 | 0.17 | 0.23 | 0.29 | 0.35 | 0.46 | 0.58 |      |      |      |      |      |      |      | 2,204                                 | 2.54            | 6.80                       |
|                | I-4800 | 1-1/2" | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.40 | 0.50 |      |      |      |      |      |      |      | 2532                                  | 2.54            | 6.80                       |
|                | I-4000 | 1-1/2" | 0.04 | 0.09 | 0.13 | 0.17 | 0.22 | 0.26 | 0.35 | 0.43 |      |      |      |      |      |      |      | 2939                                  | 2.54            | 6.80                       |
|                | I-6000 | 1-3/4" | 0.04 | 0.08 | 0.12 | 0.15 | 0.19 | 0.23 | 0.31 | 0.39 | 0.58 |      |      |      |      |      |      | 2620                                  | 2.03            | 6.80                       |
|                | I-5500 | 1-3/4" | 0.03 | 0.07 | 0.10 | 0.14 | 0.17 | 0.21 | 0.27 | 0.34 | 0.52 |      |      |      |      |      |      | 2948                                  | 2.02            | 6.80                       |
|                | I-4800 | 1-3/4" | 0.03 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.24 | 0.30 | 0.45 | 0.60 |      |      |      |      |      | 3386                                  | 2.03            | 6.80                       |
|                | I-4000 | 1-3/4" | 0.03 | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.21 | 0.26 | 0.39 | 0.52 |      |      |      |      |      | 3930                                  | 2.03            | 6.80                       |
| 78             | I-6000 | 1-3/4" | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.29 | 0.39 | 0.49 |      |      |      |      |      |      |      | 2419                                  | 2.38            | 6.80                       |
|                | I-5500 | 1-3/4" | 0.04 | 0.09 | 0.13 | 0.17 | 0.22 | 0.26 | 0.35 | 0.44 |      |      |      |      |      |      |      | 2721                                  | 2.38            | 6.80                       |
|                | I-4800 | 1-3/4" | 0.04 | 0.08 | 0.11 | 0.15 | 0.19 | 0.23 | 0.30 | 0.38 | 0.57 |      |      |      |      |      |      | 3127                                  | 2.38            | 6.80                       |
|                | I-4000 | 1-3/4" | 0.03 | 0.07 | 0.10 | 0.13 | 0.16 | 0.20 | 0.26 | 0.33 | 0.49 |      |      |      |      |      |      | 3629                                  | 2.38            | 6.80                       |

## How to Specify DURAGRID® Phenolic

Fiberglass grating shall be DURAGRID® Phenolic Series ( ) as manufactured by Strongwell. Grating shall be pultruded using phenolic resin and assembled in the U.S.A. The grating shall have current ASTM F3059 Certification<sup>1</sup> and meet the smoke and toxicity requirements of Annex 1 (resolution MSC.307 (88)), Part 2, 2.41 and 2.42 of the FTP Code as issued by the International Maritime Organization (IMO).

Panels shall be assembled into the sizes ordered using a 3-piece pultruded cross-rod system.

The cross-roads shall consist of a center core wedge and two spacer bars that are notched at each bearing bar so that each bearing bar is both mechanically locked and chemically bonded to the web of each bearing bar. The spacer bars shall be continually bonded to the center core wedge. The cross-roads shall be spaced a maximum of 6" in the panel. The top of the panels (shall) (shall not) be covered with a bonded grit anti-skid surface. Color shall be earthenware brown (RAL 8023) signifying Fire Integrity.

NOTE: If special options are required that are not stated in the above specification, fill in your special requirement in the appropriate section.

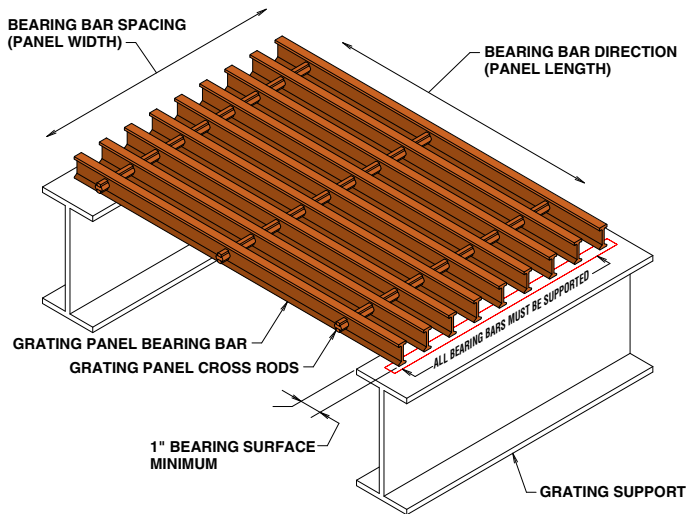
<sup>1</sup>ASTM F3059 includes requirements for structural fire integrity, durability, (impact and wheel loads) and ASTM tests: B117, D2047, D4060, D4329, E84, E119, E695.

## How to Order

When ordering DURAGRID® Phenolic, ensure the bearing bars for installation will be oriented in the correct direction for the application. Bearing bars shall traverse from support to support. Cross-roads are not intended to be applied in the span direction. The adjacent drawing will help specify the width and length of panels.

NOTE: Width is the measurement from end to end of the cross-roads. Length is always the bearing bar length.

**Panel Sizes Are Specified: Width x Length**



## ACCESSORIES

**Panel Hold Downs** — Strongwell offers numerous grating hold down fasteners.

- **Saddle Clips:** SS316 may be welded, bolted or screwed into place. Recommended for use on stair treads.
- **G-Clips:** Specially designed for offshore installations, a SS316 clip eliminates field drilling for attaching grating. G-Clips are not recommended for use on stair treads.
- **Hilti System Fastener:** A shot stud system. Fastener top and threaded stud are available from Strongwell.
- **Splash zone** hold down applications. Please contact Strongwell.

**Panel Connectors** — Saddle clips with a SS bar that connects panels.

**Stair Treads and Landings** — Standard 279mm (11") deep with closed nosing (yellow optional). Contact Strongwell for additional sizes.



ISO-9001 Quality Certified Manufacturing Plants



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400 Commonwealth Ave., Bristol, VA 24201 USA  
(276) 645-8000

### CHATFIELD LOCATION

1610 Highway 52 South, Chatfield, MN 55923-9799 USA  
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