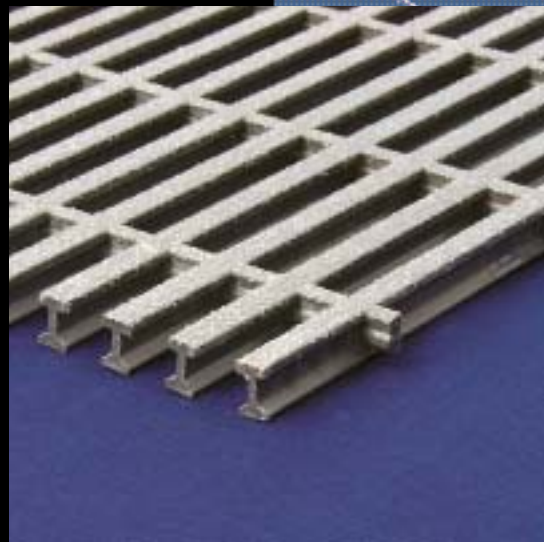
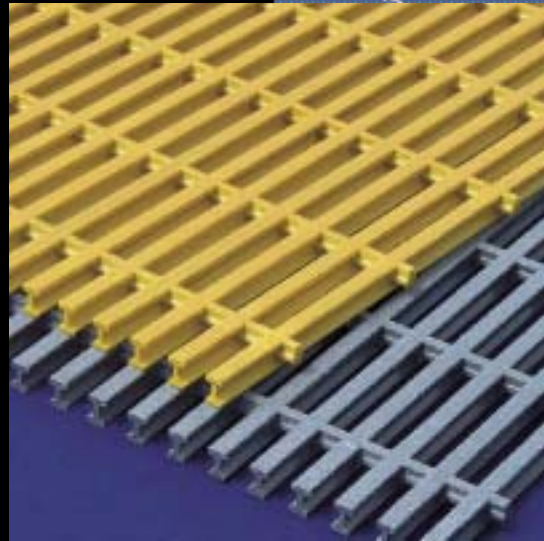


***DeltaSpan™
Pultruded Grating***



Delta Composites, LLC.

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DeltaSpan™ Pultruded Grating

DeltaSpan™ Pultruded Grating is manufactured with every panel of grating subjected to a sequence of quality assurance inspections ensuring complete sealing of all joints, full wet-out of the glass rovings, consistent resin-to-glass ratios, and consistent non-skid features. Complete traceability of resin batches and glass utilized in every panel is standard operating procedure. Records can be provided upon request.

DeltaSpan™ Pultruded Grating is lightweight, strong, chemical and U-V resistant, and reduces costly maintenance. DeltaSpan™ is particularly well suited for highly corrosive environments and offers extended life, eliminating periodic maintenance and replacement costs, thus making DeltaSpan™ Pultruded Gratings the preferred alternative to conventional steel gratings.

DeltaSpan™ Features and Options

Higher Stiffness

DeltaSpan™ Pultruded Grating possesses approximately 65% resin and 35% glass content by weight, giving it the very high strength to weight ratio. Load bearing bar capacity can be tailored to the application by modifying the glass content, fiber orientation, and combination of mat and roving reinforcement.

Chemical Resistance

DeltaSpan™ Pultruded Gratings offer superb chemical resistance to variety of acids and caustics. DeltaSpan™ is offered in an array of corrosion resistant resins designed for any environment, from light or moderately corrosive environments to extremely corrosive applications. DeltaSpan™ is offered in either premium isophthalic polyester, vinyl ester, or phenolic resins.



Lightweight

DeltaSpan™ Pultruded Gratings weigh much less than comparable steel gratings -- as much as 50% - 75% weight savings can be realized depending on the bearing bar configuration. For weight sensitive structures, such as a tension-leg platform (TLP) for an offshore deepwater facility, the use of DeltaSpan™ pultruded grating offers significant weight savings, thereby reducing the overall cost of the project.

Ultra-violet Resistance

All DeltaSpan™ Pultruded Gratings are manufactured with resins containing UV inhibitors. UV resistance is enhanced with the use of a synthetic surfacing veil, creating a "resin-rich" surface, and further strengthening DeltaSpan's™ resistance to ultra-violet attack. For optimum UV resistance, DeltaSpan™ can be coated for custom orders.

Impact Resistance

DeltaSpan™ Pultruded Gratings offer better impact resistance than conventional steel gratings.

Fire Retardancy

All DeltaSpan™ Pultruded Gratings are designed to exhibit a flame spread rating of 25 or less when tested in accordance with ASTM E-84 Tunnel Test, comparable to UL 723, ANSI/NFPA No. 255 and UBC No. 8-1, and meet the self-extinguishing requirements of ASTM D-685. A variety of resins are available offering an array of flame spread ratings and smoke densities, from as low as a flame spread of 4 and smoke density of 1 with our U.S. Coast Guard phenolic grating, DeltaSpan™ CG.

Resin Selection

Delta Composites manufactures pultruded grating in a variety of resins, each with its own unique performance characteristics. The resin selection is paramount in determining the corrosion resistance of the finished product. Please consult the Delta Composites Chemical Resistance Guide for assistance in selecting the proper resin for your application, or call Delta Composites' toll-free telephone number, 866-361-2100 for technical assistance.

Delta Composites' resin designations are comprised of two components: the resin type and its ASTM E-84 flame spread rating.



DeltaSpan™ VEFR-25 is a premium vinyl ester resin with a flame spread rating of 25 or less. DeltaSpan™ VEFR-25 pultruded grating is our most chemical resistant resin. Designed to withstand the harshest chemical environments over a broad range of acids and caustics, it is primarily used in petrochemical, waste water, mining, and plating applications where the grating is subject to frequent and direct contact with harsh chemicals. The standard color is yellow, but it is also available in dark gray.

DeltaSpan™ IFR-25 is a premium isophthalic polyester resin with a flame spread rating of 25 or less. DeltaSpan™ IFR-25 pultruded grating provides an intermediate level of chemical resistance and is the correct resin choice for grating subjected to splash and spill contact with harsh chemicals, and is a very good general purpose resin at a reduced cost compared to the premium vinyl ester resin. The standard color is yellow, but it is also available in dark gray.

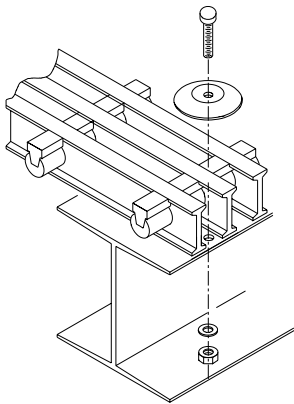


Installation Accessories

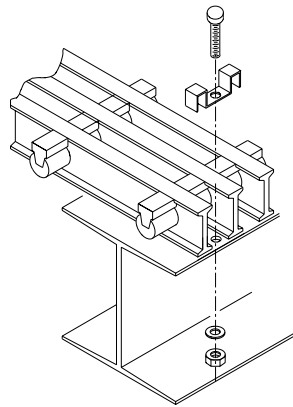
INSTALLATION – whenever possible, provide for a minimum of 1-1/2" of bearing support at all grating support points. Holddown clips should be used at the rate of one clip for every 6 ft² of grating minimum, or at least 4 clips for any square or rectangular piece, or at least 3 for a triangular piece.

Grating Hold Down Clips for Pultruded Products

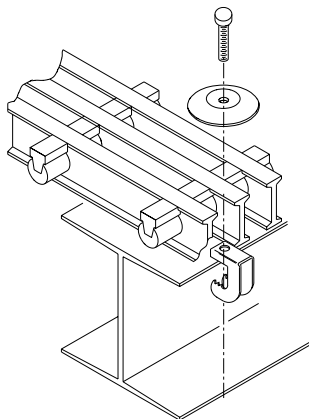
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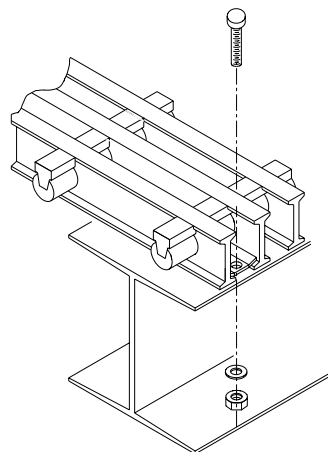
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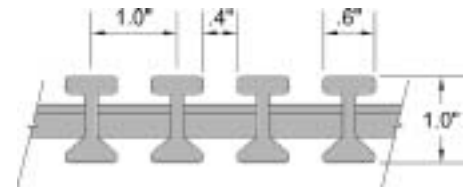


Load Tables

DeltaSpan™ Pultruded Grating - 1" I-Beam

I-4010 Technical Information

| | |
|----------------------------|---|
| Bearing Bar Type | I-Bar |
| Open Area | 40% |
| Thickness | 1.0" |
| Bearing Bar Centers | 1.0" |
| Resin Systems | IFR, VFR |
| Colors | Yellow or Gray |
| Approx. Weight | 3.52 lbs/sq ft-12" Cross Rods 3.75 lbs/sq ft-6" Cross Rods |



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load | |
|----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|
| | | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | | |
| 18 | UL | | | | | | | | | | | | | 10080 |
| | UL deflection | 0.006 | 0.012 | 0.018 | 0.024 | 0.029 | 0.044 | 0.059 | 0.088 | 0.118 | 0.177 | 0.236 | | |
| | CL | | | | | | | | | | | | | 13399 |
| | CL deflection | 0.007 | 0.013 | 0.020 | 0.027 | 0.033 | 0.050 | 0.067 | 0.100 | 0.133 | 0.200 | 0.266 | | |
| 24 | UL | | | | | | | | | | | | | 7560 |
| | UL deflection | 0.017 | 0.034 | 0.050 | 0.067 | 0.084 | 0.126 | 0.168 | 0.252 | 0.336 | 0.503 | 0.671 | | |
| | CL | | | | | | | | | | | | | 10049 |
| | CL deflection | 0.014 | 0.028 | 0.042 | 0.056 | 0.070 | 0.104 | 0.139 | 0.209 | 0.278 | 0.417 | 0.557 | | |
| 30 | UL | | | | | | | | | | | | | 6048 |
| | UL deflection | 0.039 | 0.078 | 0.117 | 0.155 | 0.194 | 0.291 | 0.389 | 0.583 | 0.777 | 1.166 | 1.555 | | |
| | CL | | | | | | | | | | | | | 8039 |
| | CL deflection | 0.026 | 0.051 | 0.077 | 0.102 | 0.128 | 0.191 | 0.255 | 0.383 | 0.510 | 0.765 | 1.020 | | |
| 36 | UL | | | | | | | | | | | | | 4466 |
| | UL deflection | 0.078 | 0.156 | 0.235 | 0.313 | 0.391 | 0.587 | 0.782 | 1.174 | 1.565 | 2.347 | 3.129 | | |
| | CL | | | | | | | | | | | | | 6699 |
| | CL deflection | 0.043 | 0.085 | 0.128 | 0.170 | 0.213 | 0.319 | 0.425 | 0.638 | 0.850 | 1.275 | 1.700 | | |
| 42 | UL | | | | | | | | | | | | | 3281 |
| | UL deflection | 0.142 | 0.285 | 0.427 | 0.569 | 0.712 | 1.067 | 1.423 | 2.135 | 2.846 | 4.269 | | | |
| | CL | | | | | | | | | | | | | 5742 |
| | CL deflection | 0.066 | 0.132 | 0.198 | 0.264 | 0.330 | 0.495 | 0.660 | 0.990 | 1.320 | 1.980 | 2.640 | | |
| 48 | UL | | | | | | | | | | | | | 2512 |
| | UL deflection | 0.240 | 0.480 | 0.720 | 0.959 | 1.199 | 1.799 | 2.399 | 3.598 | 4.797 | | | | |
| | CL | | | | | | | | | | | | | 5025 |
| | CL deflection | 0.097 | 0.194 | 0.291 | 0.388 | 0.485 | 0.728 | 0.970 | 1.456 | 1.941 | 2.911 | 3.882 | | |
| 54 | UL | | | | | | | | | | | | | 1985 |
| | UL deflection | 0.381 | 0.762 | 1.143 | 1.524 | 1.905 | 2.858 | 3.810 | 5.715 | | | | | |
| | CL | | | | | | | | | | | | | 4466 |
| | CL deflection | 0.137 | 0.273 | 0.410 | 0.547 | 0.684 | 1.026 | 1.367 | 2.051 | 2.735 | 4.102 | 5.470 | | |
| 60 | UL | | | | | | | | | | | | | 1608 |
| | UL deflection | 0.577 | 1.154 | 1.732 | 2.309 | 2.886 | 4.329 | 5.772 | 8.658 | | | | | |
| | CL | | | | | | | | | | | | | 4020 |
| | CL deflection | 0.186 | 0.372 | 0.559 | 0.745 | 0.931 | 1.396 | 1.862 | 2.793 | 3.724 | 5.586 | 7.448 | | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Load and deflection data was derived from lab tests. Values tabled are for design selection and are not intended to be exact. Delta recommends selecting gratings based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort. Deflections of .375-inch or less will give satisfactory pedestrian comfort. Data based on 12" cross rod and spacing.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

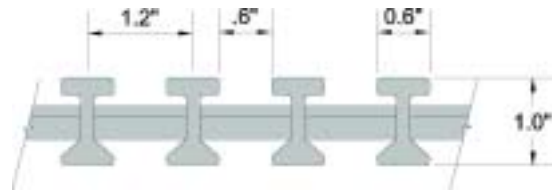
Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Load Tables

DeltaSpan™ Pultruded Grating - 1" I-Beam

I-5010 Technical Information

| | |
|----------------------------|---|
| Bearing Bar Type | I-Bar |
| Open Area | 50% |
| Thickness | 1.0" |
| Bearing Bar Centers | 1.20" |
| Resin Systems | IFR, VFR |
| Colors | Yellow or Gray |
| Approx. Weight | 2.97 lbs/sq ft-12" Cross Rods 3.02 lbs/sq ft-6" Cross Rods |



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load |
|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 18 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 8400 |
| | UL deflection | 0.007 | 0.014 | 0.021 | 0.028 | 0.035 | 0.053 | 0.071 | 0.106 | 0.141 | 0.212 | 0.283 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 11166 |
| | CL deflection | 0.008 | 0.016 | 0.024 | 0.032 | 0.040 | 0.060 | 0.080 | 0.120 | 0.160 | 0.239 | 0.319 | |
| 24 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6300 |
| | UL deflection | 0.020 | 0.040 | 0.060 | 0.081 | 0.101 | 0.151 | 0.201 | 0.302 | 0.403 | 0.604 | 0.805 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 8374 |
| | CL deflection | 0.017 | 0.033 | 0.050 | 0.067 | 0.083 | 0.125 | 0.167 | 0.250 | 0.334 | 0.501 | 0.668 | |
| 30 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5040 |
| | UL deflection | 0.047 | 0.093 | 0.140 | 0.187 | 0.233 | 0.350 | 0.466 | 0.700 | 0.933 | 1.399 | 1.866 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6699 |
| | CL deflection | 0.031 | 0.061 | 0.092 | 0.122 | 0.153 | 0.230 | 0.306 | 0.459 | 0.612 | 0.918 | 1.224 | |
| 36 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3722 |
| | UL deflection | 0.094 | 0.188 | 0.282 | 0.376 | 0.469 | 0.704 | 0.939 | 1.408 | 1.878 | 2.817 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5583 |
| | CL deflection | 0.051 | 0.102 | 0.153 | 0.204 | 0.255 | 0.383 | 0.510 | 0.765 | 1.020 | 1.530 | 2.040 | |
| 42 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2734 |
| | UL deflection | 0.171 | 0.342 | 0.512 | 0.683 | 0.854 | 1.281 | 1.708 | 2.562 | 3.415 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4785 |
| | CL deflection | 0.079 | 0.158 | 0.238 | 0.317 | 0.396 | 0.594 | 0.792 | 1.188 | 1.584 | 2.376 | 3.167 | |
| 48 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2094 |
| | UL deflection | 0.288 | 0.576 | 0.863 | 1.151 | 1.439 | 2.159 | 2.878 | 4.317 | 5.757 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4187 |
| | CL deflection | 0.116 | 0.233 | 0.349 | 0.466 | 0.582 | 0.873 | 1.165 | 1.747 | 2.329 | 3.494 | 4.658 | |
| 54 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | | | | 1654 |
| | UL deflection | 0.457 | 0.914 | 1.372 | 1.829 | 2.286 | 3.429 | 4.572 | 6.858 | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3722 |
| | CL deflection | 0.164 | 0.328 | 0.492 | 0.656 | 0.820 | 1.231 | 1.641 | 2.461 | 3.282 | 4.923 | | |
| 60 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | | | | | 1340 |
| | UL deflection | 0.693 | 1.385 | 2.078 | 2.771 | 3.463 | 5.195 | 6.927 | | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3350 |
| | CL deflection | 0.223 | 0.447 | 0.670 | 0.894 | 1.117 | 1.676 | 2.234 | 3.351 | 4.469 | 6.703 | | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Load and deflection data was derived from lab tests. Values tabled are for design selection and are not intended to be exact. Delta recommends selecting gratings based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort. Deflections of .375-inch or less will give satisfactory pedestrian comfort. Data based on 12" cross rod and spacing.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

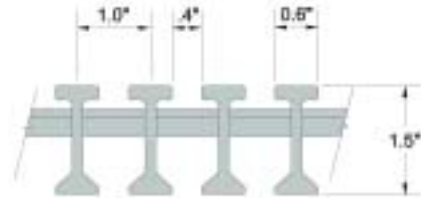
Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Load Tables

DeltaSpan™ Pultruded Grating - 1-1/2" I-Beam

I-4015 Technical Information

| | |
|----------------------------|--------------------------------------|
| Bearing Bar Type | I-Bar |
| Open Area | 40% |
| Thickness | 1.5" |
| Bearing Bar Centers | 1.0" |
| Resin Systems | IFR, VFR |
| Colors | Yellow or Gray |
| Approx. Weight | 4.21 lbs/sq ft-12" Cross Rods |
| | 4.44 lbs/sq ft-6" Cross Rods |



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load |
|----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| | | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 18 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 15120 |
| | UL deflection | 0.002 | 0.005 | 0.007 | 0.010 | 0.012 | 0.018 | 0.024 | 0.037 | 0.049 | 0.073 | 0.097 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 22680 |
| | CL deflection | 0.003 | 0.006 | 0.009 | 0.011 | 0.014 | 0.021 | 0.028 | 0.043 | 0.057 | 0.085 | 0.114 | |
| 24 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 11340 |
| | UL deflection | 0.006 | 0.013 | 0.019 | 0.026 | 0.032 | 0.048 | 0.065 | 0.097 | 0.129 | 0.194 | 0.258 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 19084 |
| | CL deflection | 0.005 | 0.011 | 0.016 | 0.022 | 0.027 | 0.041 | 0.055 | 0.082 | 0.110 | 0.165 | 0.220 | |
| 30 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 9072 |
| | UL deflection | 0.014 | 0.029 | 0.043 | 0.058 | 0.072 | 0.108 | 0.144 | 0.216 | 0.288 | 0.431 | 0.575 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 15267 |
| | CL deflection | 0.010 | 0.019 | 0.029 | 0.038 | 0.048 | 0.072 | 0.096 | 0.144 | 0.192 | 0.288 | 0.384 | |
| 36 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7560 |
| | UL deflection | 0.028 | 0.056 | 0.085 | 0.113 | 0.141 | 0.212 | 0.282 | 0.424 | 0.565 | 0.847 | 1.130 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 12723 |
| | CL deflection | 0.016 | 0.031 | 0.047 | 0.062 | 0.078 | 0.117 | 0.156 | 0.233 | 0.311 | 0.467 | 0.622 | |
| 42 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6232 |
| | UL deflection | 0.051 | 0.101 | 0.152 | 0.202 | 0.253 | 0.379 | 0.506 | 0.758 | 1.011 | 1.517 | 2.022 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 10905 |
| | CL deflection | 0.024 | 0.047 | 0.071 | 0.095 | 0.119 | 0.178 | 0.237 | 0.356 | 0.474 | 0.711 | 0.948 | |
| 48 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4771 |
| | UL deflection | 0.084 | 0.169 | 0.253 | 0.337 | 0.422 | 0.632 | 0.843 | 1.265 | 1.686 | 2.529 | 3.372 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 9542 |
| | CL deflection | 0.034 | 0.069 | 0.103 | 0.138 | 0.172 | 0.258 | 0.344 | 0.516 | 0.688 | 1.032 | 1.376 | |
| 54 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3770 |
| | UL deflection | 0.133 | 0.266 | 0.399 | 0.532 | 0.665 | 0.997 | 1.329 | 1.994 | 2.658 | 3.987 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 8482 |
| | CL deflection | 0.048 | 0.096 | 0.144 | 0.192 | 0.240 | 0.360 | 0.480 | 0.721 | 0.961 | 1.441 | 1.922 | |
| 60 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3053 |
| | UL deflection | 0.200 | 0.401 | 0.601 | 0.801 | 1.001 | 1.502 | 2.003 | 3.004 | 4.005 | 6.008 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7634 |
| | CL deflection | 0.065 | 0.130 | 0.195 | 0.260 | 0.325 | 0.487 | 0.650 | 0.975 | 1.299 | 1.949 | 2.599 | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Load and deflection data was derived from lab tests. Values tabled are for design selection and are not intended to be exact. Delta recommends selecting gratings based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort. Deflections of .375-inch or less will give satisfactory pedestrian comfort. Data based on 12" cross rod and spacing.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

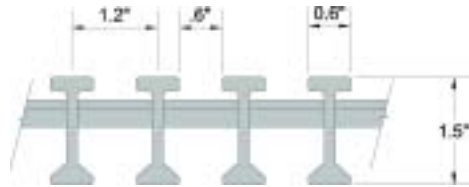
Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Load Tables

DeltaSpan™ Pultruded Grating - 1-1/2" I-Beam

I-5015 Technical Information

| | |
|----------------------------|--------------------------------------|
| Bearing Bar Type | I-Bar |
| Open Area | 50% |
| Thickness | 1.5" |
| Bearing Bar Centers | 1.20" |
| Resin Systems | IFR, VFR |
| Colors | Yellow or Gray |
| Approx. Weight | 3.54 lbs/sq ft-12" Cross Rods |
| | 3.77 lbs/sq ft-6" Cross Rods |



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load |
|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 18 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 12600 |
| | UL deflection | 0.003 | 0.006 | 0.009 | 0.012 | 0.015 | 0.022 | 0.029 | 0.044 | 0.058 | 0.088 | 0.117 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 18900 |
| | CL deflection | 0.003 | 0.007 | 0.010 | 0.014 | 0.017 | 0.026 | 0.034 | 0.051 | 0.068 | 0.102 | 0.136 | |
| 24 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 9450 |
| | UL deflection | 0.008 | 0.016 | 0.023 | 0.031 | 0.039 | 0.058 | 0.078 | 0.116 | 0.155 | 0.233 | 0.310 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 15903 |
| | CL deflection | 0.007 | 0.013 | 0.020 | 0.026 | 0.033 | 0.049 | 0.066 | 0.099 | 0.132 | 0.198 | 0.264 | |
| 30 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7560 |
| | UL deflection | 0.017 | 0.035 | 0.052 | 0.069 | 0.086 | 0.129 | 0.173 | 0.259 | 0.345 | 0.518 | 0.690 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 12723 |
| | CL deflection | 0.012 | 0.023 | 0.035 | 0.046 | 0.058 | 0.086 | 0.115 | 0.173 | 0.231 | 0.346 | 0.461 | |
| 36 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6300 |
| | UL deflection | 0.034 | 0.068 | 0.102 | 0.136 | 0.169 | 0.254 | 0.339 | 0.508 | 0.678 | 1.017 | 1.355 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 10602 |
| | CL deflection | 0.019 | 0.037 | 0.056 | 0.075 | 0.093 | 0.140 | 0.187 | 0.280 | 0.373 | 0.560 | 0.747 | |
| 42 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5193 |
| | UL deflection | 0.061 | 0.121 | 0.182 | 0.243 | 0.303 | 0.455 | 0.607 | 0.910 | 1.213 | 1.820 | 2.427 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 9088 |
| | CL deflection | 0.028 | 0.057 | 0.085 | 0.114 | 0.142 | 0.213 | 0.284 | 0.427 | 0.569 | 0.853 | 1.138 | |
| 48 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3976 |
| | UL deflection | 0.101 | 0.202 | 0.304 | 0.405 | 0.506 | 0.759 | 1.012 | 1.518 | 2.023 | 3.035 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7952 |
| | CL deflection | 0.041 | 0.083 | 0.124 | 0.165 | 0.206 | 0.310 | 0.413 | 0.619 | 0.826 | 1.239 | 1.652 | |
| 54 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3141 |
| | UL deflection | 0.159 | 0.319 | 0.478 | 0.638 | 0.797 | 1.196 | 1.595 | 2.392 | 3.190 | 4.785 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7068 |
| | CL deflection | 0.058 | 0.115 | 0.173 | 0.231 | 0.288 | 0.432 | 0.577 | 0.865 | 1.153 | 1.730 | 2.306 | |
| 60 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2545 |
| | UL deflection | 0.240 | 0.481 | 0.721 | 0.961 | 1.202 | 1.802 | 2.403 | 3.605 | 4.806 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6361 |
| | CL deflection | 0.078 | 0.156 | 0.234 | 0.312 | 0.390 | 0.585 | 0.780 | 1.169 | 1.559 | 2.339 | 3.119 | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Load and deflection data was derived from lab tests. Values tabled are for design selection and are not intended to be exact. Delta recommends selecting gratings based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort. Deflections of .375-inch or less will give satisfactory pedestrian comfort. Data based on 12" cross rod and spacing.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

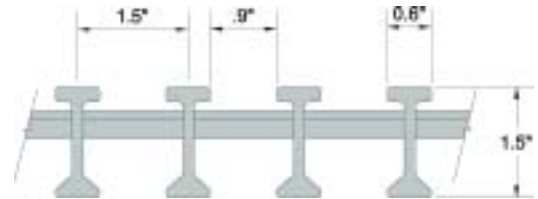
Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Load Tables

DeltaSpan™ Pultruded Grating - 1-1/2" I-Beam

I-6015 Technical Information

| | |
|----------------------------|---|
| Bearing Bar Type | I-Beam |
| Open Area | 60% |
| Thickness | 1.5" |
| Bearing Bar Centers | 1.5" |
| Resin Systems | IFR, VFR |
| Colors | Yellow or Gray |
| Approx. Weight | 2.88 lbs/sq ft-12" Cross Rods 3.11 lbs/sq ft-6" Cross Rods |



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load |
|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 18 | UL | 0.004 | 0.007 | 0.011 | 0.015 | 0.018 | 0.027 | 0.037 | 0.055 | 0.073 | 0.110 | 0.146 | 10080 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| | CL | 0.004 | 0.009 | 0.013 | 0.017 | 0.021 | 0.032 | 0.043 | 0.064 | 0.085 | 0.128 | 0.170 | 15120 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 24 | UL | 0.010 | 0.019 | 0.029 | 0.039 | 0.048 | 0.073 | 0.097 | 0.145 | 0.194 | 0.291 | 0.388 | 7560 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| | CL | 0.008 | 0.016 | 0.025 | 0.033 | 0.041 | 0.062 | 0.082 | 0.124 | 0.165 | 0.247 | 0.329 | 12723 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 30 | UL | 0.022 | 0.043 | 0.065 | 0.086 | 0.108 | 0.162 | 0.216 | 0.323 | 0.431 | 0.647 | 0.863 | 6048 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| | CL | 0.014 | 0.029 | 0.043 | 0.058 | 0.072 | 0.108 | 0.144 | 0.216 | 0.288 | 0.432 | 0.577 | 10178 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 36 | UL | 0.042 | 0.085 | 0.127 | 0.169 | 0.212 | 0.318 | 0.424 | 0.635 | 0.847 | 1.271 | 1.694 | 5040 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| | CL | 0.023 | 0.047 | 0.070 | 0.093 | 0.117 | 0.175 | 0.233 | 0.350 | 0.467 | 0.700 | 0.933 | 8482 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 42 | UL | 0.076 | 0.152 | 0.228 | 0.303 | 0.379 | 0.569 | 0.758 | 1.138 | 1.517 | 2.275 | 3.034 | 4154 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| | CL | 0.036 | 0.071 | 0.107 | 0.142 | 0.178 | 0.267 | 0.356 | 0.533 | 0.711 | 1.067 | 1.422 | 7270 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 48 | UL | 0.126 | 0.253 | 0.379 | 0.506 | 0.632 | 0.948 | 1.265 | 1.897 | 2.529 | 3.794 | | 3181 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | |
| | CL | 0.052 | 0.103 | 0.155 | 0.206 | 0.258 | 0.387 | 0.516 | 0.774 | 1.032 | 1.548 | 2.065 | 6361 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 54 | UL | 0.199 | 0.399 | 0.598 | 0.797 | 0.997 | 1.495 | 1.994 | 2.991 | 3.987 | | | 2513 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | |
| | CL | 0.072 | 0.144 | 0.216 | 0.288 | 0.360 | 0.540 | 0.721 | 1.081 | 1.441 | 2.162 | 2.883 | 5655 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |
| 60 | UL | 0.300 | 0.601 | 0.901 | 1.202 | 1.502 | 2.253 | 3.004 | 4.506 | 6.008 | | | 2036 |
| | UL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | |
| | CL | 0.097 | 0.195 | 0.292 | 0.390 | 0.487 | 0.731 | 0.975 | 1.462 | 1.949 | 2.924 | 3.898 | 5089 |
| | CL deflection | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

Load and deflection data was derived from lab tests. Values tabled are for design selection and are not intended to be exact. Delta recommends selecting gratings based on a deflection of .25-inch or less. This deflection may be exceeded at the discretion of the designer. Deflections of .25-inch or less will give excellent pedestrian comfort. Deflections of .375-inch or less will give satisfactory pedestrian comfort. Data based on 12" cross rod and spacing.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

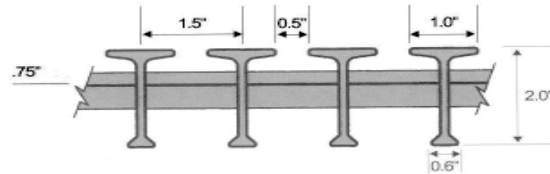
Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Load Tables

DeltaSpan™ Pultruded Grating - 2" T-Beam

T-3320 Technical Information

| | |
|---------------------|---|
| Bearing Bar Type | T-Bar |
| Open Area | 33% |
| Thickness | 2.0" |
| Bearing Bar Centers | 1.5" |
| Resin Systems | IFR, VFR |
| Colors | Yellow or Gray |
| Approx. Weight | 3.90 lbs/sq ft-12" Cross Rods 4.13 lbs/sq ft-6" Cross Rods |



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load |
|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 24 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 10080 |
| | UL deflection | 0.005 | 0.010 | 0.015 | 0.020 | 0.025 | 0.037 | 0.049 | 0.074 | 0.098 | 0.147 | 0.196 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 17056 |
| | CL deflection | 0.004 | 0.009 | 0.013 | 0.017 | 0.021 | 0.032 | 0.043 | 0.064 | 0.086 | 0.129 | 0.171 | |
| 30 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 8064 |
| | UL deflection | 0.010 | 0.021 | 0.031 | 0.042 | 0.052 | 0.078 | 0.104 | 0.156 | 0.208 | 0.312 | 0.416 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 13645 |
| | CL deflection | 0.007 | 0.014 | 0.021 | 0.028 | 0.036 | 0.053 | 0.071 | 0.107 | 0.142 | 0.213 | 0.285 | |
| 36 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6720 |
| | UL deflection | 0.020 | 0.040 | 0.059 | 0.079 | 0.099 | 0.149 | 0.198 | 0.297 | 0.396 | 0.594 | 0.793 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 11371 |
| | CL deflection | 0.011 | 0.022 | 0.033 | 0.044 | 0.056 | 0.083 | 0.111 | 0.167 | 0.222 | 0.334 | 0.445 | |
| 42 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5569 |
| | UL deflection | 0.035 | 0.069 | 0.104 | 0.139 | 0.174 | 0.261 | 0.347 | 0.521 | 0.695 | 1.042 | 1.389 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 9746 |
| | CL deflection | 0.017 | 0.033 | 0.050 | 0.066 | 0.083 | 0.124 | 0.165 | 0.248 | 0.331 | 0.496 | 0.661 | |
| 48 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4264 |
| | UL deflection | 0.057 | 0.114 | 0.171 | 0.228 | 0.285 | 0.428 | 0.571 | 0.856 | 1.141 | 1.712 | 2.283 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 8528 |
| | CL deflection | 0.024 | 0.047 | 0.071 | 0.094 | 0.118 | 0.177 | 0.236 | 0.354 | 0.471 | 0.707 | 0.943 | |
| 54 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3369 |
| | UL deflection | 0.089 | 0.178 | 0.267 | 0.356 | 0.445 | 0.668 | 0.890 | 1.335 | 1.780 | 2.670 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7580 |
| | CL deflection | 0.032 | 0.065 | 0.097 | 0.130 | 0.162 | 0.244 | 0.325 | 0.487 | 0.650 | 0.975 | 1.300 | |
| 60 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2729 |
| | UL deflection | 0.133 | 0.266 | 0.399 | 0.532 | 0.665 | 0.998 | 1.331 | 1.996 | 2.661 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6822 |
| | CL deflection | 0.044 | 0.087 | 0.131 | 0.174 | 0.218 | 0.326 | 0.435 | 0.653 | 0.871 | 1.306 | 1.741 | |
| 66 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2255 |
| | UL deflection | 0.192 | 0.384 | 0.576 | 0.768 | 0.960 | 1.440 | 1.920 | 2.880 | 3.839 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6202 |
| | CL deflection | 0.057 | 0.114 | 0.171 | 0.228 | 0.285 | 0.427 | 0.569 | 0.854 | 1.138 | 1.707 | 2.276 | |
| 72 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | | | | 1895 |
| | UL deflection | 0.269 | 0.538 | 0.807 | 1.075 | 1.344 | 2.016 | 2.688 | 4.033 | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5685 |
| | CL deflection | 0.073 | 0.146 | 0.219 | 0.291 | 0.364 | 0.547 | 0.729 | 1.093 | 1.457 | 2.186 | 2.915 | |
| 78 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | | | | 1615 |
| | UL deflection | 0.367 | 0.734 | 1.101 | 1.468 | 1.835 | 2.753 | 3.670 | 5.505 | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5248 |
| | CL deflection | 0.092 | 0.183 | 0.275 | 0.367 | 0.458 | 0.687 | 0.916 | 1.375 | 1.833 | 2.749 | 3.666 | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

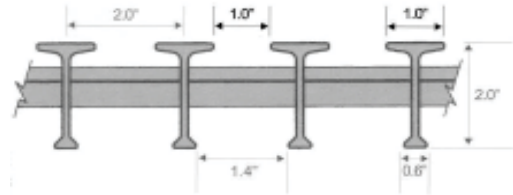
Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Load Tables

DeltaSpan™ Pultruded Grating - 2" T-Beam

T-5020 Technical Information

Bearing Bar Type T-Bar
Open Area 50%
Thickness 2.0"
Bearing Bar Centers 1.0"
Resin Systems IFR, VFR
Colors Yellow or Gray
Approx. Weight 4.21 lbs/sq ft-12" Cross Rods
 4.44 lbs/sq ft-6" Cross Rods



| Span Inches | Load Type | | | | | | | | | | | | Ultimate Load |
|-------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| 24 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7560 |
| | UL deflection | 0.007 | 0.013 | 0.020 | 0.026 | 0.033 | 0.049 | 0.065 | 0.098 | 0.131 | 0.196 | 0.262 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 12792 |
| | CL deflection | 0.006 | 0.011 | 0.017 | 0.023 | 0.029 | 0.043 | 0.057 | 0.086 | 0.114 | 0.171 | 0.229 | |
| 30 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6048 |
| | UL deflection | 0.014 | 0.028 | 0.042 | 0.056 | 0.069 | 0.104 | 0.139 | 0.208 | 0.278 | 0.416 | 0.555 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 10234 |
| | CL deflection | 0.009 | 0.019 | 0.028 | 0.038 | 0.047 | 0.071 | 0.095 | 0.142 | 0.190 | 0.285 | 0.380 | |
| 36 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5040 |
| | UL deflection | 0.026 | 0.053 | 0.079 | 0.106 | 0.132 | 0.198 | 0.264 | 0.396 | 0.528 | 0.793 | 1.057 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 8528 |
| | CL deflection | 0.015 | 0.030 | 0.044 | 0.059 | 0.074 | 0.111 | 0.148 | 0.222 | 0.296 | 0.445 | 0.593 | |
| 42 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4177 |
| | UL deflection | 0.046 | 0.093 | 0.139 | 0.185 | 0.232 | 0.347 | 0.463 | 0.695 | 0.926 | 1.389 | 1.853 | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 7310 |
| | CL deflection | 0.022 | 0.044 | 0.066 | 0.088 | 0.110 | 0.165 | 0.220 | 0.331 | 0.441 | 0.661 | 0.881 | |
| 48 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3198 |
| | UL deflection | 0.076 | 0.152 | 0.228 | 0.304 | 0.380 | 0.571 | 0.761 | 1.141 | 1.522 | 2.283 | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 6396 |
| | CL deflection | 0.031 | 0.063 | 0.094 | 0.126 | 0.157 | 0.236 | 0.314 | 0.471 | 0.629 | 0.943 | 1.257 | |
| 54 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2527 |
| | UL deflection | 0.119 | 0.237 | 0.356 | 0.475 | 0.593 | 0.890 | 1.187 | 1.780 | 2.374 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5685 |
| | CL deflection | 0.043 | 0.087 | 0.130 | 0.173 | 0.217 | 0.325 | 0.433 | 0.650 | 0.867 | 1.300 | 1.733 | |
| 60 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | | | 2047 |
| | UL deflection | 0.177 | 0.355 | 0.532 | 0.710 | 0.887 | 1.331 | 1.774 | 2.661 | 3.548 | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5117 |
| | CL deflection | 0.058 | 0.116 | 0.174 | 0.232 | 0.290 | 0.435 | 0.580 | 0.871 | 1.161 | 1.741 | 2.322 | |
| 66 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | | | | 1692 |
| | UL deflection | 0.256 | 0.512 | 0.768 | 1.024 | 1.280 | 1.920 | 2.560 | 3.839 | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4652 |
| | CL deflection | 0.076 | 0.152 | 0.228 | 0.304 | 0.379 | 0.569 | 0.759 | 1.138 | 1.518 | 2.276 | 3.035 | |
| 72 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | | | | | 1421 |
| | UL deflection | 0.358 | 0.717 | 1.075 | 1.434 | 1.792 | 2.688 | 3.584 | | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 4264 |
| | CL deflection | 0.097 | 0.194 | 0.291 | 0.389 | 0.486 | 0.729 | 0.972 | 1.457 | 1.943 | 2.915 | 3.886 | |
| 78 | UL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | | | | | 1211 |
| | UL deflection | 0.489 | 0.979 | 1.468 | 1.957 | 2.447 | 3.670 | 4.893 | | | | | |
| | CL | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | | 3936 |
| | CL deflection | 0.122 | 0.244 | 0.367 | 0.489 | 0.611 | 0.916 | 1.222 | 1.833 | 2.444 | 3.666 | | |

Notes: Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

The Load/Deflection values given in this brochure are median values. The manufacturing control limits on stiffness for all panes are plus or minus 10% of these median values.

Installation should provide for fully supported abutments of grating panels. Otherwise, higher deflection values may be experienced, and tripping hazards may occur. Stub bars should not be less than 1" in clip attachment areas. DeltaSpan pedestrian grating load bars at platform edges should be fully supported.

Field Fabrication and Installation of DeltaSpan™ Pultruded Grating

SAFETY PRECAUTIONS -- When cutting DeltaSpan™ Pultruded Grating, always wear safety glasses or goggles to protect your eyes and always wear a dust mask to reduce dust inhalation. Always wear gloves, and it is recommended that a shop coat with neck and tapered sleeves be worn to prevent skin irritation. Work in well-lighted and ventilated area. Always read the MSDS (Material Safety Data Sheet) before cutting and sealing DeltaSpan™ Pultruded Grating. Always provide firm support of the grating panels to prevent shifting, and the use of sawhorses and other supports will help to prevent common back injuries. Cutting of DeltaSpan™ Pultruded Grating will produce dust -- this dust is non-carcinogenic but may cause some skin irritation.

CUTTING DELTASPAN™ PULTRUDED GRATING -- Depending on the amount (linear feet) of grating to be cut, and the type of cutting required, i.e., straight cuts or circular cuts, a variety of field and shop tools can be used such as an abrasive coated metal blade, or a standard bimetal blade or a hacksaw with a blade with a similar tooth pattern as the bimetal blade.

For making straight cuts, the following equipment is recommended:

- Panel saw*
- Circular saw*
- Table saw*
- Radial arm saw*
- Reciprocating saw (6" lg. abrasive coated or a bimetal blade, 12-14 teeth, min.)
- Hand-held hack saw (for small quantities or emergencies)
*The blade should be an abrasive continuous rim cut-off blade normally used on masonry or ceramic products (silica gritted or diamond coated blades).

Product Selection Ordering Guide

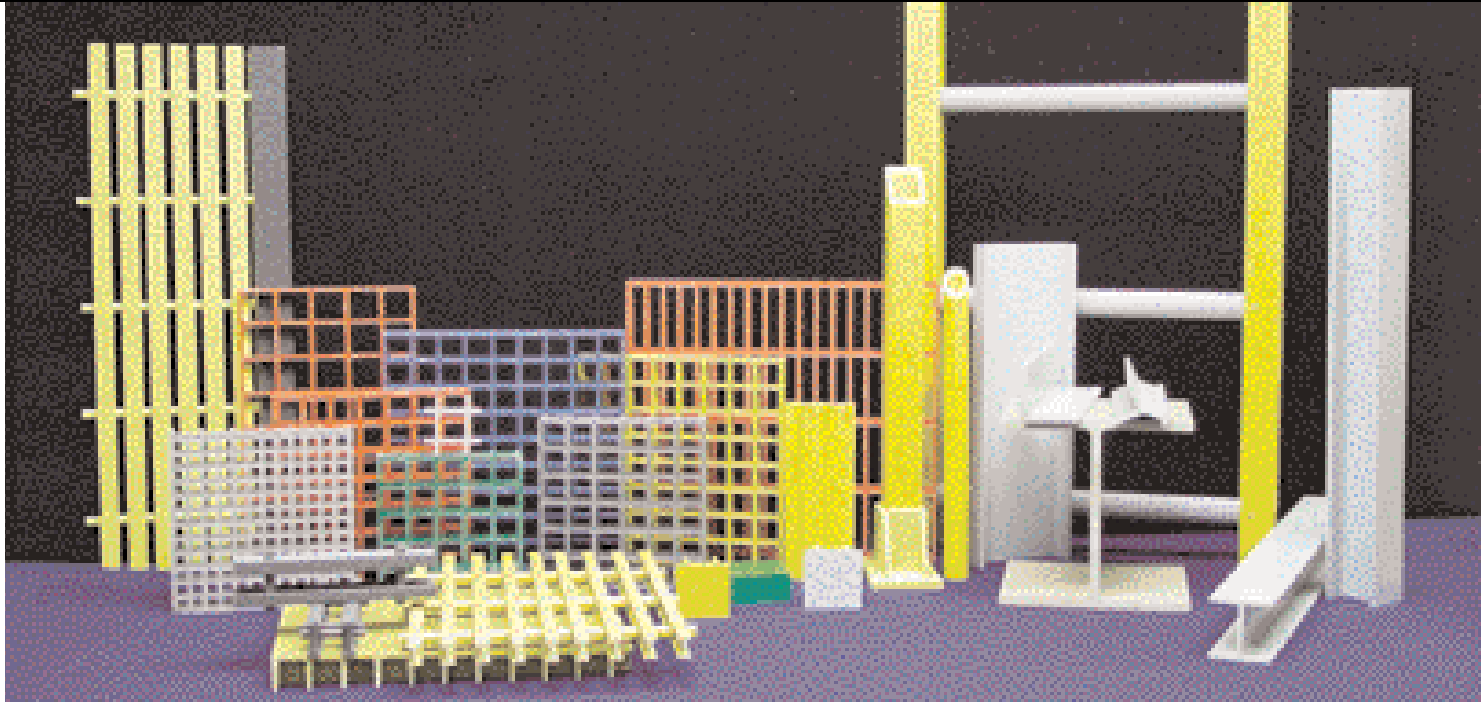
1. Determine the application of the Pultruded Grating.
2. Determine the physical requirements such as:
 - a) exposure to chemicals and/or extreme temperatures (see chart.)
 - b) fire retardance.
 - c) loading requirements, span, and support (see load chart.)
3. Choose Delta Composites' DeltaSpan™ Pultruded Fiberglass Grating.
4. Specify the style and resin:
 - a) bar type (I or T), size and spacing of bearing and crosses.
 - b) type of resin.
5. Determine width and length (length is always bearing bar length and width is end to end of the cross rod.)
6. Choose grit surface.
7. Choose Color.
8. Determine number of pieces required.

For making small radius circular cuts, a reciprocating saw with the same blade specifications above is recommended. For making larger radius circular cuts, a circular saw can be used using the blade specifications stated above.

Remember that the saw blades will "eat-up" about 1/8" of grating with each cut, so be sure to allow for this when measuring and laying out your marks on the grating panel.

Always use sandpaper or a sanding wheel to smooth out all cut edges before sealing and ALL CUT EDGES MUST BE SEALED. For this, use Delta Composites Zynolite, a premium grade exterior polyurethane enamel specially formulated to effectively seal cut surfaces of fiberglass products to protect the glass fibers from environmental attack. The material is supplied in 11 oz. spray cans and is to be used in accordance with the instructions on each can. The material dries in 30 minutes, and is non-toxic when dry. Delta Composites Zynolite is flammable and care must be taken to use the material and dispose of the material in accordance with the written instructions on each can.

Also available from Delta Composites



DeltaGrate™

High-Strength Molded Grating

Offers a higher glass content (38% by weight) than conventional molded gratings. The DeltaGrate family of products includes:

- DeltaGrate Mini-Mesh Grating
- DeltaGrate Conductive Molded Grating
- DeltaGrate Food-Grade FRP
- DeltaGrate Covered Plate Grating
- DeltaTread Stair Treads
- DeltaGrate Stair Tread Covers
- DeltaGrate Fluorescent Grating
- DeltaLite Grating
- DeltaScreen
- Grating Legs

DeltaRail™ & DeltaLadder™

Chemical and corrosion resistant fiberglass handrail and ladders. DeltaRail fiberglass handrail is available in two or three rail systems that can be either side mounted or top mounted. DeltaLadder fiberglass ladders and cages custom built to your requirements and prefabricated for easy installation.

DeltaTreads™

A safe and cost effective alternative to conventional steel stair treads. With a solid gritted nosing, DeltaTread is corrosion resistant, slip resistant, and stronger than other fiberglass stair treads. Fabricated molded square-mesh treads and pultruded stair treads are also available.

Stair Tread Covers

An efficient and cost effective solution to slippery and unsafe stairways. This safety product is typically installed over existing steel stair treads. Available in fluorescent colors for increased nighttime visibility and safety.

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Delta Composites, L.L.C.

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