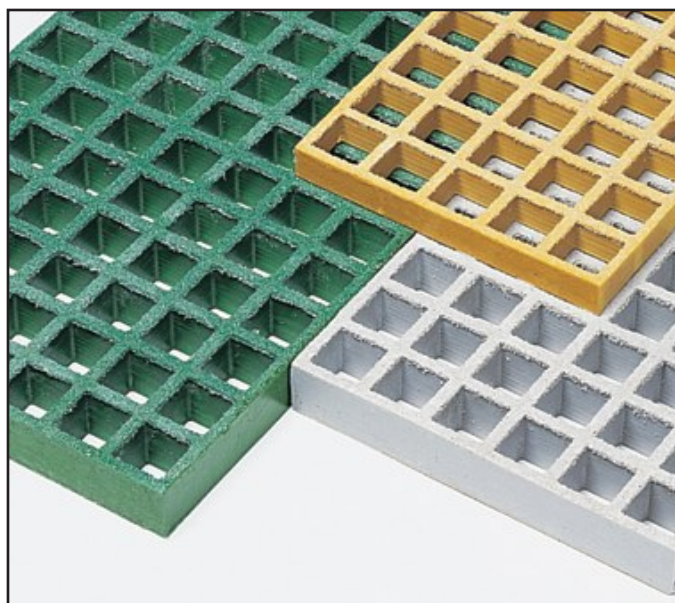




**ADVANCED INDUSTRIAL & MARINE SERVICES, INC.**

## **DeltaGrate™ HS High Strength Compression Molded Fiberglass Grating**



**AIMS**  
Advanced Industrial & Marine Services, Inc.

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# DeltaGrate™ HS Compression Molded Fiberglass Grtg.

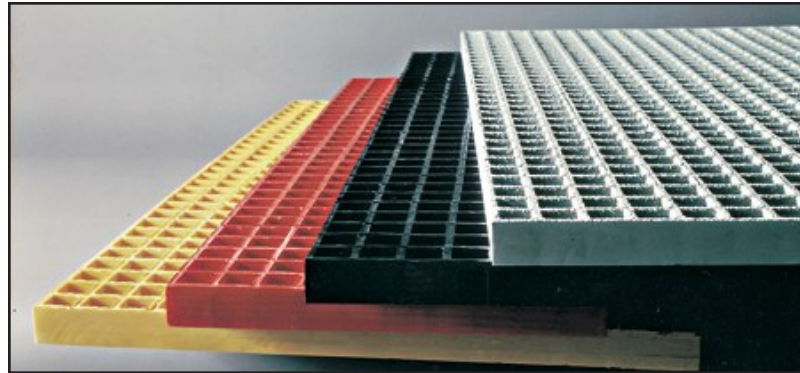
AIMS International's DeltaGrate™ HS Compression Molded Fiberglass Grating (High Strength) was developed for corrosive applications where lightweight, impact-resistant, corrosion-resistant, and slip-resistant grating is a must. DeltaGrate™ HS Compression Molded Fiberglass Grating is a combination of glass rovings strategically positioned within thermoset resins to form a one-piece, high-resin content product. DeltaGrate™ HS Compression Molded Fiberglass Grating is a better alternative to traditional steel grating products.

## **Quality Manufactured Product**

DeltaGrate™ HS Compression Molded Fiberglass Grating is manufactured to ISO 9001 standards. Every panel of grating is subjected to a number of quality assurance inspections ensuring void-free panels, full wet-out of the glass rovings, consistent resin-to-glass ratios, and consistent non-skid features. Complete traceability of resin batches and the glass utilized in every panel is maintained and can be provided as needed. U-V testing, chemical-resistance tests, and load capacity and impact tests are also routinely performed.

## **Compression Molding Results in Higher Stiffness**

AIMS International's DeltaGrate™ HS Compression Molded Fiberglass Grating is manufactured using a proprietary method enabling a higher percentage of glass rovings to be introduced into the grating. By using a system of "weights" to compress the glass into the resin at multiple stages during a panel's manufacture—"Compression Molded"—we are able to increase the glass content up to 35-40% by weight. Dependent on the client's specification, we can vary the glass content up to as much as 43% by weight. The corrosion resistance of fiberglass grating is provided by the resin, and the stiffness is provided by the glass. Possessing a higher glass content results in a stiffer fiberglass grating. As a result, DeltaGrate HS is 15-20% stiffer than other gratings produced using conventional open-molding processes without compromising any of the other positive qualities of a molded fiberglass grating. In an independent study conducted by the University of Mississippi on several prominent manufacturers of open-top molded gratings, DeltaGrate™ HS placed FIRST in overall stiffness.



## **WE CAN VARY GLASS CONTENT PERCENTAGE!**

While DeltaGrate™ HS Compression Molded Fiberglass Grating comes standard with a 38% (average) glass content by weight, AIMS International can customize the glass content to suit the specific application. DeltaGrate™ can be manufactured with a 43% average glass content (DeltaGrate™ 43), or it can also be manufactured with a 32% glass content (DeltaGrate™ 32). THESE WILL BE CUSTOM ORDERS, so please consult AIMS International for delivery times.

## **Chemical Resistance**

With approximately 62% resin content, DeltaGrate™ HS Compression Molded Fiberglass Grating offers superb chemical resistance to a variety of acids and caustics. DeltaGrate™ HS is offered in an array of corrosion-resistant resins designed for any environment, from light or moderately corrosive environments to extremely corrosive applications.

## **Lightweight**

DeltaGrate™ HS 1" molded grating weighs 2.5 psf compared to 7.5 psf for 1" steel grating. DeltaGrate™ HS 1 1/2" molded grating weighs 3.75 psf compared to 11.5 psf for 1 1/2" steel grating. DeltaGrate™ HS weighs 1/3 the weight of steel gratings resulting in easier installations and lower installation costs.

## **Impact Resistance**

DeltaGrate™ HS Compression Molded Fiberglass Gratings provide excellent impact resistance and are tested in accordance with ASTM 695-79 (1985) as established by the Fiberglass Grating Manufacturers Council (U.S.A.).



# DeltaGrate™ HS Compression Molded Fiberglass Grtg.

## Fire Retardancy

All DeltaGrate™ HS Compression Molded Fiberglass Gratings are designed to exhibit a minimum of a Class 1 flame-spread rating when tested in accordance with ASTM E-84 flame-spread rating Tunnel Test (comparable to UL 723, ANSI/NFPA No. 255 and UBC No. 8-1). DeltaGrate™ HS gratings are available in a variety of resins offering an array of flame-spread ratings and smoke densities, from as low as 5 in flame-spread rating and 5 in smoke density with our molded phenolic grating product.

## Non-Skid & Safety

DeltaGrate™ HS is available in either a concave meniscus top or a gritted top. Each offers superior slip resistance to traditional steel-grated walking surfaces. Many of our customers specify our DeltaTread™ fiberglass stair treads for their safe, non-skid characteristics alone.

## Low Maintenance/Maintenance Free

With resin and pigment blended throughout DeltaGrate™ HS Compression Molded Fiberglass Grating, the grating will never require painting. Coupled with our corrosion-resistant attachment systems, AIMS International provides maintenance-free walkway systems. **You install it and forget about it!**

## Other Positive Features

DeltaGrate™ HS Compression Molded Fiberglass Gratings are also:

- Electrically and thermally non-conductive
- Easy to cut and/or install
- Ultra-violet resistant
- Provided in a number of grating thicknesses and panel sizes
- Offered with bi-directional strength characteristics

## Industries Using Fiberglass Grating

- Offshore & Marine
- Petro-chemical & Refining
- Communications
- Water/Wastewater
- Transportation & Transit
- Aerospace
- Automotive
- Pulp & Paper
- Mining
- Metal Plating
- Food & Beverage
- Textile
- Electrical & Power Generation
- Computer and Hi-tech
- Recreational Water Parks & Pools
- Zoos and Aquariums
- Military
- Medical
- Shipping
- Many others



2-Level Fiberglass Structure



# Grating Selection

AIMS International offers both molded and pultruded gratings. The following table provides assistance in selecting the best grating for the application.

<b>DeltaGrate™ HS Compression Molded Fiberglass Grtg. vs. DeltaSpan Pultruded Grtg.</b>		
Characteristic/Application	Square Mesh Molded Grating	Pultruded Grating
Chemical Resistance	Excellent	Good
Bi-directional Strength	Excellent	Not Recommended
Uni-directional Strength	Very Good	Excellent
Impact Resistance	Excellent	Average
Weight Savings vs. Metal	Excellent	Excellent
Open Area (air flow, light penetration)	Excellent (70-80%)	Good (40-60%)
Panel Sizes Available	Excellent	Excellent
Pipe Penetrations	Excellent	Average
Safety	Excellent	Excellent

For any applications requiring our pultruded fiberglass gratings, please see the DeltaSpan Pultruded Fiberglass Grating brochure for additional information.

<b>DeltaGrate™ HS Compression Molded Fiberglass Grating Sizes and Specifications</b>					
Grating Thickness	Mesh Description	Bars/ft	Panel Sizes Available	Weight (psf)	% Open Area
1/2"	1 1/2" x 1 1/2" Square (DeltaScreen™)	8	4' x 8' 4' x 12'	0.8	69%
1/2"	1/2" x 1" x 4" Rectangular (DeltaLite™)	12	3' x 10' 4' x 8'	1.2	68%
1/2"	2" x 2" Square (DeltaLite™)	6	4' x 12'	1.08	71%
1"	1" x 4" Rectangular	12	3' x 10'	2.6	68%
1"	1 1/2" x 1 1/2" Square	8	3' x 10', 4' x 8' 4' x 12'	2.5	69%
1-1/4"	0.79" Square (Mini-Mesh™)	16	3.3' x 9.8' (1 m x 3 m)	3.86	42%
1-1/4" (30 mm)	1 1/2" x 1 1/2" Square 40mm x 40mm	8	4 m x 1 m 3 m x 1 m 2 m x 1 m	3.2	69%
1 1/2"	1 1/2" x 1 1/2" Square	8	3' x 10' x 4' x 8' 4' x 12', 5' x 10'	3.8	69%
1 1/2"	1" x 6" Rectangular (DeltaTread™)	12	22 1/4" x 10'	4.85	56%*
2"	2" x 2" Square	6	4' x 12'	4.5	71%

\*including the solid nosing

# Resin Selection

AIMS International manufactures molded 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 AIMS International Chemical Resistance Guide for assistance in selecting the proper resin for your application, or call AIMS International's toll-free telephone number, 800-495-5997 for technical assistance.

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

**Type VEFR-25** is a premium vinyl ester resin with a flame-spread rating of 25 or less. Type VEFR-25 resin provides the most chemical resistant molded product offered in the industry. 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. **Type VEFR-10** is manufactured with the same high-quality vinyl ester resin but with an enhanced flame-spread rating of 10 or less for those applications requiring more flame resistance, such as an offshore platform. The standard color for the VEFR-25 is orange, and the standard color for the VEFR-10 is dark gray.

**Type IFR-25** is a premium isophthalic polyester resin with a flame-spread rating of 25 or less. Type IFR-25 provides an intermediate level of chemical resistance and is the correct resin choice for grating subjected to splash and spill contact with harsh chemicals. It is a very good general purpose resin at a reduced cost compared to the premium vinyl ester resin. **Type IFR-10** is the same high-quality isophthalic polyester resin but with an enhanced flame-spread rating of 10. The standard color for the IFR-25 is green, and the standard color for the IFR-10 grating is dark gray.

**Type FG-30** is DeltaGrate™ HS Compression Molded Fiberglass Grating manufactured using a premium food grade polyester resin containing no harmful ingredients and is certified by the resin manufacturer. Each panel is post cured and detergent washed prior to shipping. This grating possesses a flame-spread rating of 30, and the standard color is light gray.

**Type CFR-25** is an orthophthalic polyester resin with a flame-spread rating of 25 or less providing moderate chemical resistance. AIMS International's Type CFR-25 grating is perfect for use in water/wastewater applications, light industrial applications, and in the wavezone areas of offshore platforms where the environment is moderate. Although Type CFR-25 is the least chemical resistant resin, it still offers superior performance to traditional flooring products such as steel, aluminum, and wood, and is the most economical resin available. The standard colors for the CFR-25 gratings are yellow and dark gray. **Type CFR-10**, an orthophthalic polyester resin with a flame-spread rating of 10, is available upon request.

**Type MP-5** is AIMS International's molded phenolic grating where fire resistance, low smoke, and low toxic fumes are critical. Tested in accordance with ASTM E-84-97a, Type MP-5 resin has a flame-spread rating of 5 and smoke density rating of 5. Our Type MP-5 molded phenolic grating is typically used in confined spaces, subways, offshore, and other applications where fire resistance and low smoke generation is absolutely necessary. The standard color in which the Type MP-5 is available is chocolate brown; however, phenolic painting of the grating can be performed to obtain a light gray finish.

**Conductive Top Grating:** All of AIMS International DeltaGrate™ HS Compression Molded Fiberglass Grating products can be provided with a specially formulated carbon black surface, eliminating hazardous static electricity when properly grounded. Available with all of the above resins, DeltaGrate™ HS Conductive Gratings are primarily used in the high-tech electronic industries, munitions and arsenal manufacturing plants, and other sparking-sensitive environments where sophisticated equipment may be damaged due to static electricity. The surface electric resistance of DeltaGrate™ HS Conductive Grating is  $1 \times 10^5$  ohms to  $5 \times 10^5$  ohms. For grounding requirements, please consult our engineering staff by calling our toll free number, 800-495-5997, or e-mailing [aimsales@aims-intl.com](mailto:aimsales@aims-intl.com).

# ISO 9001 Certification

## Products

All of AIMS International's molded and pultruded fiberglass gratings are manufactured to ISO 9001 standards. This certification coincides with AIMS International's mission to offer the highest quality products and services.

ISO 9001 is a quality-assurance model that is used by companies that produce, inspect, test, install, and service items.



## What are the benefits of purchasing products from an ISO 9001 Quality Manufacturer?

- Fewer production mistakes as the result of better systematic inspection and testing
- Fewer production mistakes as the result of increased employee participation, involvement, awareness and systematic employee training
- Better products resulting from better design control
- Improved productivity resulting from planning and teamwork
- Reduction in costs associated with failures and/or production errors
- Systematic resolution of specification non-conformance and the incorporation of preventive measures and corrective action
- Improved communications, both internally and externally, resulting in improved quality, efficiency on-time delivery, and customer/supplier relations
- Worldwide recognition of compliance by an unbiased and respected organization



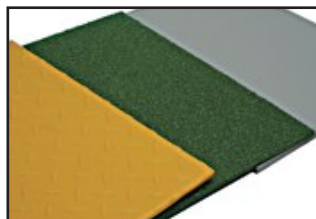


# Specialty Products

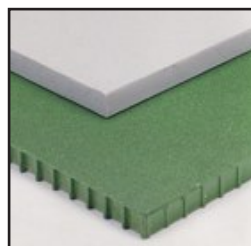
## **DeltaPlate™ & DeltaGrate™**

### **Covered Plate Grating**

Many applications require a solid flooring for a variety of reasons, such as odor control in a wastewater plant or in an offshore drilling mud room, or possibly for safety reasons to prevent any small objects from falling through the flooring to the level below. For these instances, AIMS International has two solutions: our DeltaPlate™ Structural Plate and our DeltaGrate™ Covered Plate Grating.



DeltaPlate™ Structural Plates are offered in thicknesses ranging from 1/8" to 3/4", and three choices of plate surfaces are available: our checkered-top finish, our gritted-top finish, or our smooth-top finish. Thicker plates can be custom ordered. DeltaPlate™ is offered in all of the same resin systems as our DeltaGrate™ HS Compression Molded Fiberglass Grating products and provides the same corrosion-resistance features of our DeltaGrate™ HS products.



DeltaPlate™ can be bonded to our DeltaGrate™ HS Compression Molded Fiberglass Grating, creating a structural flooring 25-30% stronger than the standard DeltaGrate™ HS grating. DeltaGrate™ Covered Plate Grating offers all of the attributes as the DeltaPlate™, but with much higher load capacity. The standard thickness of the DeltaPlate™ utilized in the covered plate grating is 1/8". However, customized thicker plates can be incorporated.

### **DeltaGrate™ Stair Tread Covers**

AIMS International offers an alternative to replacing older stair treads—the DeltaGrate™ Stair Tread Cover. This product is custom manufactured to properly attach over the existing stair treads and provide excellent non-skid characteristics. It can be provided in a variety of colors. Fluorescent covers are also available.



### **Grating Legs**

Our DeltaGrate™ Grating Legs are used to elevate DeltaGrate™ HS Compression Molded Fiberglass Grating without the need for extensive structural framing support. Recommended for applications where the elevated flooring is not subjected to wind or other environmental lateral loads, our DeltaGrate™ Grating Legs are a cost-effective way to raise the flooring to provide access to meters, gauges, valves, or other items routinely requiring access, and installation is easy. Available in single head and double head fittings and fixed or adjustable height legs, DeltaGrate™ Grating Legs can raise your flooring from 2" to 60".



### **Fluorescent Grating**

DeltaGrate™ HS Fluorescent Grating is available and is excellent for use as stair treads in a nighttime safety application or even as a decorative fencing. DeltaGrate™ HS Fluorescent Grating possesses the same strength characteristics as our standard gratings and is offered in orthophthalic, isophthalic, and vinyl ester resins. A proprietary pigment allows the grating to absorb sunlight energy during the day and release the light energy during the night. Special stair tread covers or treads with fluorescent nosings are also available.

### **DeltaGrate™ Mini-Mesh Grating**

DeltaGrate™ Mini-Mesh Grating provides a "middle of the road" solution to those applications where solid flooring is not permissible due to airflow requirements, but where the openings must be smaller than our conventional DeltaGrate™ products. The DeltaGrate™ Mini-Mesh flooring system has one-fourth the opening of our standard 1 1/2" square mesh gratings. The smaller openings prevent objects as small as 1/2" from falling through, and because of the closer spacing of the bearing bars, DeltaGrate™ Mini-Mesh panels provide an easier flooring for pushing carts and drum dollies, and they comply with ADA requirements for wheelchair floorings. DeltaGrate™ Mini-Mesh





# Specialty Products

Grating panels are lightweight and easily removable, corrosion-resistant and provide for unobstructed airflow. Furthermore, DeltaGrate™ Mini-Mesh panels meet the 15mm ball test for floorings, a European safety requirement commonly used in some sectors of the offshore industry.

Available in 1m x 3m panels, Mini-Mesh panels are provided in three surface styles—smooth, concave, and gridded.

## **DeltaLite™ Grating**

DeltaLite™ Grating panels are intended for a variety of light-duty structural applications where physical strength properties of our standard DeltaGrate™ HS gratings are not needed. DeltaLite™ is often used as a screen, fencing material, a barrier, a caging material, a divider material, or shelving material. Because it is a light-duty variation of our standard fiberglass gratings, it possesses the same attributes such as being lightweight, corrosion resistant, thermal & electrical non-conductive, and non-skid. DeltaLite™ Grating non-skid can be supplied in either a meniscus top or with a gridded top. DeltaLite™ Grating can be installed over existing floorings to create a safer and more corrosion-resistant floor.

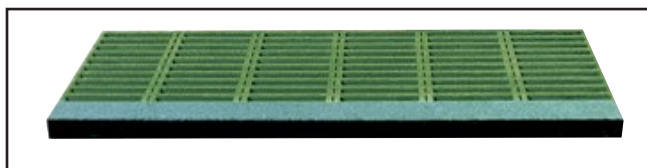
Physically, DeltaLite™ is 1/2" in thickness and has a mesh of 2" x 2" square center-to-center. The width of the topside of the bearing bar is 5/16", and it is 3/16" on the bottom side. The same resin systems available in our DeltaGrate™ HS Compression Molded Fiberglass Gratings are available for the DeltaLite™ panels. DeltaLite™ grating is offered in 4' x 12' panels. DeltaLite™ is also available in a 1" x 4" rectangular mesh, and is provided in 3' x 10' and 4' x 8' panels.

## **DeltaScreen™**

DeltaScreen™ is intended for use as a screen primarily for air intakes in military, commercial, and industrial applications. It is often used for wall fan screens and as a barrier to prevent contact with electrical equipment and pumps. DeltaScreen™ is a 1/2" thick x 1 1/2" square mesh fiberglass material and is offered in all of the resins provided by AIMS International, including phenolic for those low-smoke, low-toxicity applications. The screen product is constructed with 1/8" wide bearing bars resulting in an 87% open area screen. DeltaScreen™ is provided in 4' x 8' panels.

## **DeltaTreads™**

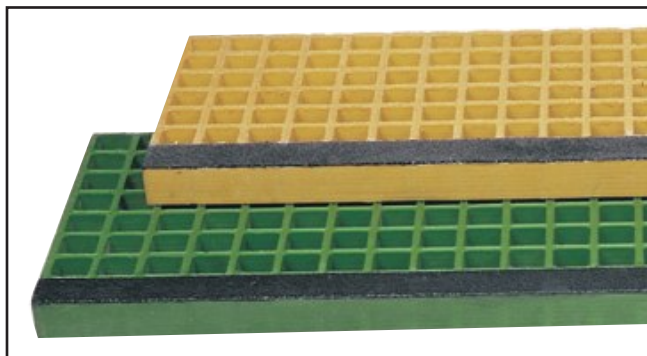
AIMS International's molded fiberglass stair treads are offered in two varieties: the DeltaTread™ and the DeltaGrate FabTread. DeltaTread™ stair treads are cut from DeltaTread™ panels measuring 22 1/4" x 10'-0". The mesh of the DeltaTread™ is 1" x 6" with double bearing bars at the 6" intervals so that any stair tread with a length that is a multiple of 6" is always banded. The DeltaTread™ panel design results in an efficient utilization ratio, i.e., 8 banded stair treads 2'-6" long can be cut from the DeltaTread™ panel with zero drop. The DeltaTread™ panel comes with either a meniscus top non-skid or a gridded top non-skid.



The OSHA required non-skid nosing, built into the leading edge of the tread for the first 1 1/4", is always gridded and is the same color as the rest of the panel.

The DeltaGrate™ FabTread is a regular 1 1/2" thick x 1 1/2" square mesh grating with a fabricated structural nosing.

Both of AIMS International's stair treads, the DeltaTread™ and the DeltaGrate™ FabTread, are available in all resins. And don't forget about our fluorescent resins, which are a big nighttime safety bonus!



# Specialty Products

## **Design**

AIMS International's engineering and drafting capabilities are unsurpassed in the structural fiberglass industry. AIMS International has developed a 3-dimensional, structural finite-element analysis design program that incorporates the industry-accepted fiberglass allowable stress design formulas. AIMS International's structural engineers can perform 3-D structural analysis of any fiberglass structure. AIMS International is the only structural fiberglass engineering consultant/fabricator to have such an engineering tool. This fiberglass structural design program performs stress and deflection calculations, plots of deflections, forces, stresses, reactions, as well as resizing overstressed fiberglass members. AIMS International is committed to producing the most optimum structural design for all of its engineered systems.



*AIMS' structural engineers can perform 3-D structural analysis of any fiberglass structure, steel structure, or concrete structure.*

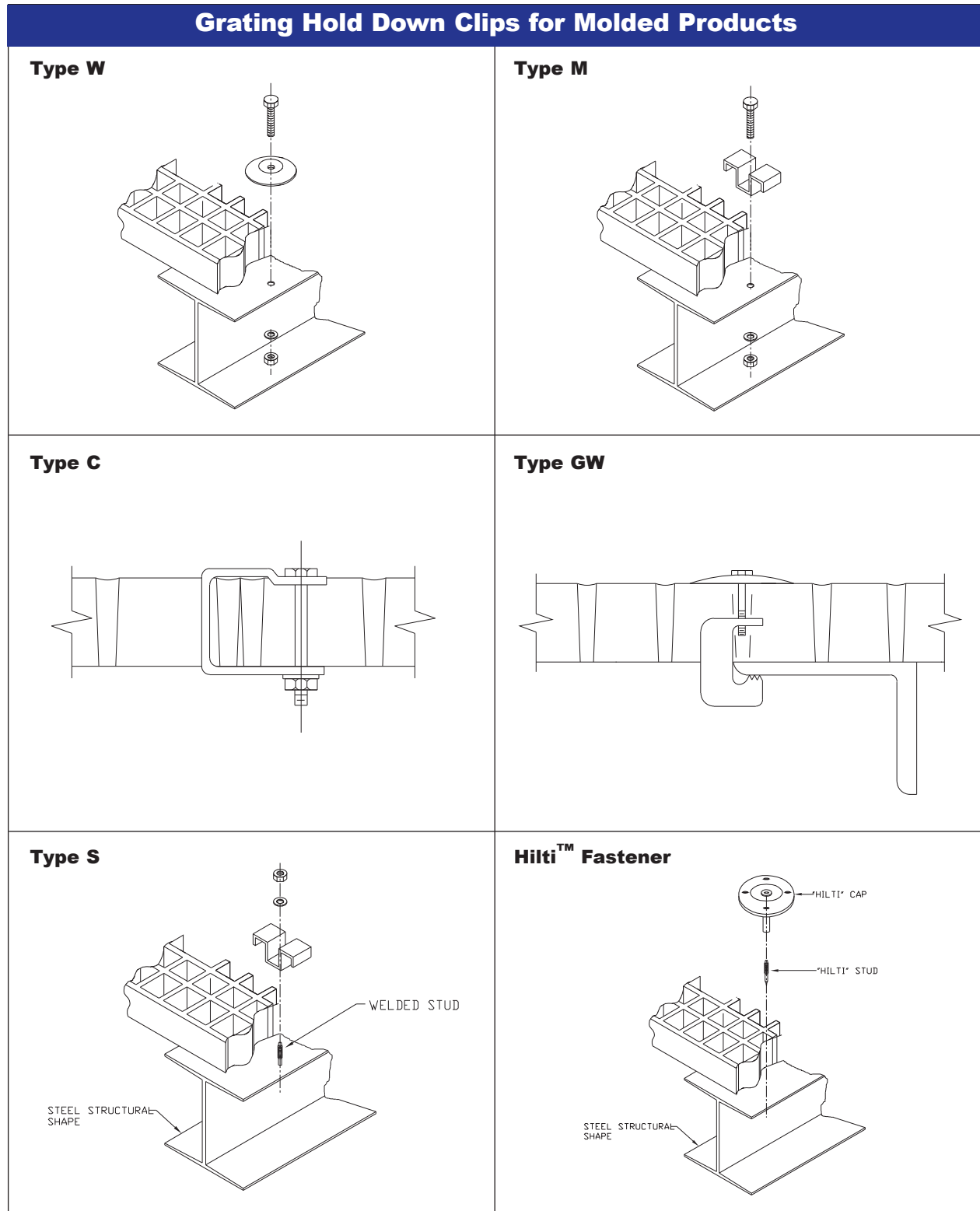
## **Customer Service**

Our in-house customer service and engineering personnel are product knowledgeable, customer friendly, and are there to assist you with quotations, technical support, project status reports, and any other questions you may have.



# Non-Wavezone Installation Accessories

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





# The Talon™ System



The Talon™ System (US Patent Numbers 5911664 & RE40217) is an innovative attachment system that was developed and patented by AIMS for the purpose of mechanically fastening a molded fiberglass grating to the framing members of an offshore platform subjected to wave action. It is an all 316 stainless steel mechanical fastening system, that when designed by AIMS and installed in accordance with AIMS' specifications and requirements, comes with a WASHOUT WARRANTY. Please see the Example Washout Warranty on Page 15 of this brochure. The Talon™ System is designed to resist the most severe wave forces exerted by hurricanes and typhoons, even a Category 5 storm. In laymen's terms, the guarantee states that if a panel of our grating is washed out due to wave action of any kind, AIMS will provide free labor and replacement materials to restore the grating system back to its original integrity. Please contact AIMS for details on the comprehensive wavezone washout warranty.



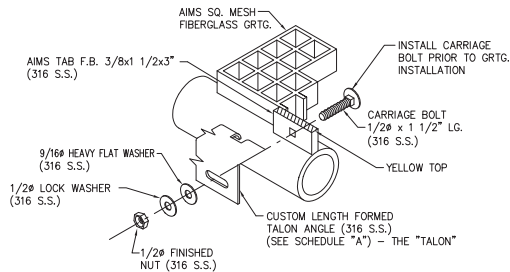


# Wavezone Installation Accessories

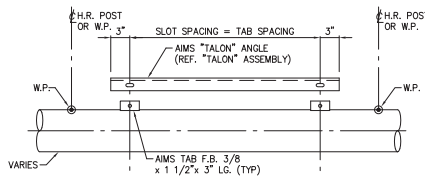
## Installation Accessories for The Talon™ System

### Wavezone Talon™ Angle

PATENTED



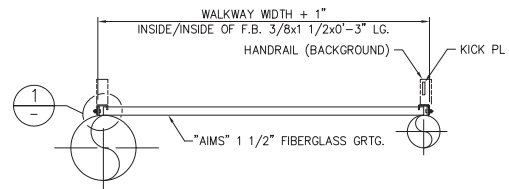
"TALON" ASSEMBLY  
NTS



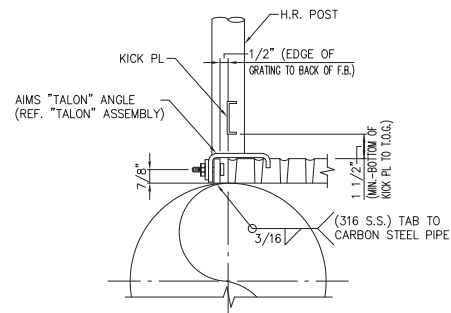
MARK	QTY	REF DIM	TAB QUANTITY (AND SPACING)	JACKET	REF DIM	"TALON" LENGTH	DESCRIPTION
TA10	0	SEE PLAN	2 TABS AT 6" = 6"	SEE PLAN	1'-0"	(316 S.S.)	
TA16	0	SEE PLAN	2 TABS AT 1'-0" = 1'-0"	SEE PLAN	1'-6"	(316 S.S.)	
TA26	0	SEE PLAN	3 TABS AT 1'-0" = 2'-0"	SEE PLAN	2'-6"	(316 S.S.)	
TA36	0	SEE PLAN	4 TABS AT 1'-0" = 3'-0"	SEE PLAN	3'-6"	(316 S.S.)	
TA46	0	SEE PLAN	5 TABS AT 1'-0" = 4'-0"	SEE PLAN	4'-6"	(316 S.S.)	
TA16NT	0	SEE PLAN	2 TABS AT 1'-0" = 1'-0"	SEE PLAN	1'-6"	(316 S.S.) NO TEETH	

### Wavezone Talon™ Angle

PATENTED



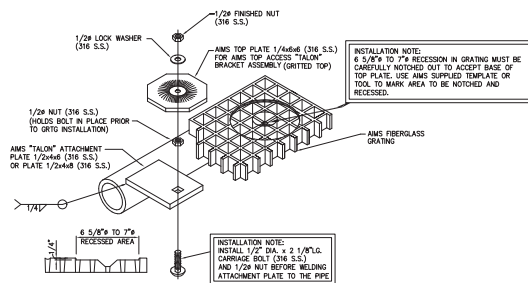
TYPICAL SECTION THROUGH GRATING WALKWAY  
NTS



DETAIL  
SCALE N.T.S.

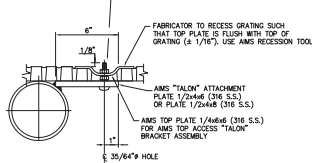
### Wavezone Top-Mount Bracket

PATENTED



TOP ACCESS "TALON" BRACKET ASSEMBLY  
NTS

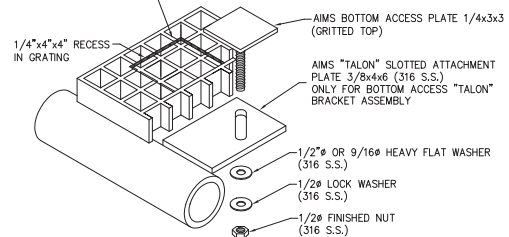
NOTE TO JACKET FABRICATOR:  
DURING THE IN-YARD INSTALLATION OF THE AIMS FIBERGLASS GRATING SYSTEM, IT NEEDS TO BE POINTED OUT THAT, AFTER ASSEMBLY, THE BOLT USED IN THE TOP ACCESS "TALON" BRACKET ASSEMBLY WILL STICK UP ABOVE THE TOP SURFACE OF THE GRATING BY 1/8 INCH. THE INSTALLATION CONTRACTOR SHALL SHOW THE BOLT TO BE FLUSH WITH THE TOP OF GRATING. THIS PROCESS HELPS TO ENSURE THAT THE HANDRAIL DOES NOT LOOSEN.



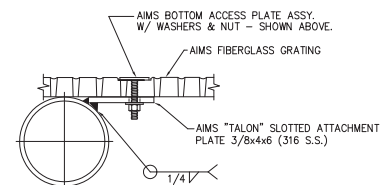
TOP ACCESS "TALON" BRACKET ASSEMBLY  
NTS

### Wavezone Bottom-Mount Bracket

FABRICATOR TO RECESS GRATING SUCH THAT TOP PLATE IS FLUSH WITH TOP OF GRATING (± 1/16") USE CIRCULAR SAW W/ ABRASIVE WHEEL, SET DEPTH TO 1/4", AND USE LIKE A ROUTER. SEAL EXPOSED EDGES.



BOTTOM ACCESS "TALON" BRACKET ASSEMBLY  
(TYPICALLY USED TO ATTACH THE TOP TREAD OF A WAVEZONE STAIR)



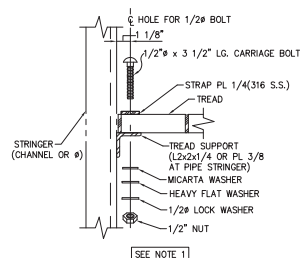
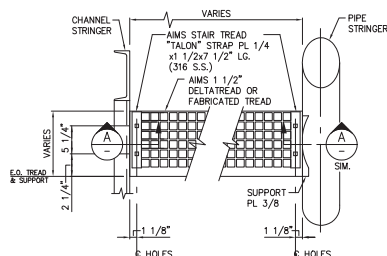
BOTTOM ACCESS "TALON" BRACKET ASSEMBLY  
(TYPICALLY USED TO ATTACHED THE TOP TREAD OF A WAVEZONE STAIR)

# Wavezone Installation Accessories

## Installation Accessories for The Talon™ System

### Wavezone Stair Treads

PATENTED

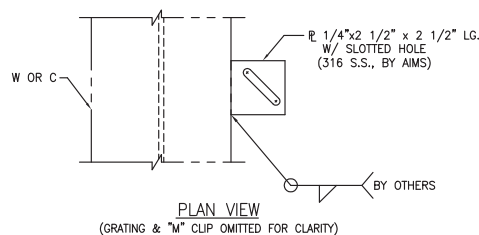


SECTION  
SCALE N.T.S. A

TYPICAL WAVEZONE TREAD ATTACHMENT

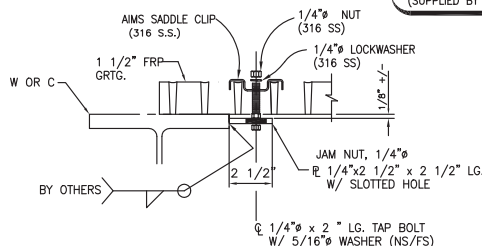
### Non-Wavezone Talon™ NWZ

PATENTED

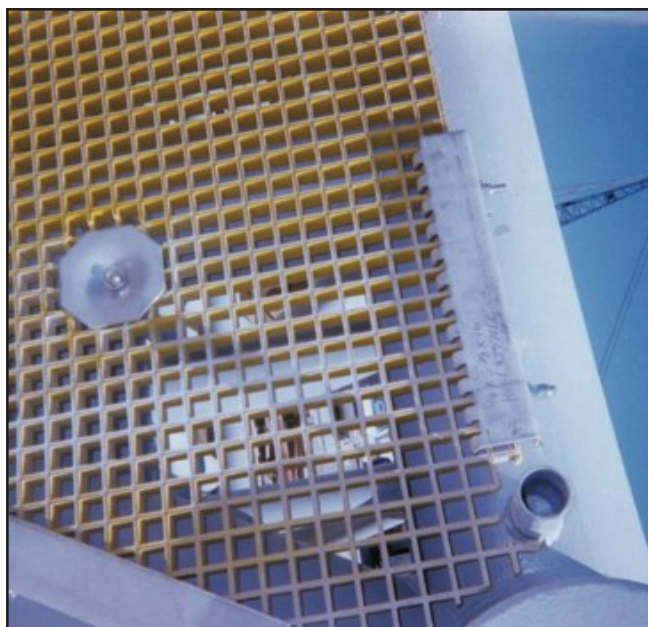


PLAN VIEW  
(GRATING & "M" CLIP OMITTED FOR CLARITY)

NOTE:  
GRIND DOWN BOLT AFTER  
ASSEMBLY OF BOLTING HARDWARE  
AND USE LOCTITE AFTER TIGHTENING NUT  
(SUPPLIED BY OTHERS)



AIMS REMOVABLE "TALON BRACKET NWZ-M" SYSTEM DETAIL  
(SCALE: N.T.S.)



The Talon™ System is manufactured in AIMS' ISO 9001:2008 facility using only corrosion-resistant 316 stainless steel materials. The attachment details are shown on Page 13 of this brochure.

The Talon™ System has successfully survived the most recent major storms in the Gulf of Mexico, including Hurricanes Ivan, Rita, Katrina, and Ike with no known losses of fiberglass gratings. In one instance, a competitor's wavezone attachment system was on Platform A and the AIMS Talon™ System was on Platform B of the same Gulf of Mexico Block when Hurricane Ivan passed directly over both platforms. The results? Every panel of fiberglass grating was washed off our competitor's system on Platform A. Not one panel of grating was lost on our Platform B Talon™ System. The operator and owner of the platforms hired AIMS to replace the grating and attachment system for Platform A.

# Example Washout Warranty



Wavezone Application of  
AIMS Fiberglass Grating System  
for  
ABC Oil Company  
Location, Block Number & Platform Designation  
Date  
via ABC Oil Company Purchase Order No. \_\_\_\_\_  
AIMS Job No. YYMMNN

This warranty is being offered to **ABC Oil Company** by AIMS INTERNATIONAL, INC. for the offshore fiberglass grating and handrail system to be installed on the above titled platform(s) based on the following terms:

1. Provided AIMS prepares the fiberglass grating and attachment hardware drawings and details and supplies the fiberglass grating and attachment hardware for the fiberglass grating system; and
2. Provided that AIMS is permitted to install the fiberglass grating and handrail system, or should the installation of the fiberglass grating system be performed by **ABC Oil Company** or its subcontractors, AIMS is permitted access to the work for inspection and final approval; and
3. Provided that AIMS is allowed offshore access to the platform by **ABC Oil Company** to perform a post installation survey which is a thorough and final inspection of the grating and handrail system offshore after the jacket has been installed, and after all field installed components of the grating and handrail system have been installed, and provided that AIMS is permitted to make all necessary corrections; and
4. Provided that, if a loss of grating occurs resulting from wave action, or if **ABC Oil Company** is unhappy with the performance of the grating and handrail system, and the terms of Items 1, 2, and 3 above have been met, AIMS is permitted access to the offshore platform for the purpose of verifying that the loss of grating or complaint was the result of AIMS' design and/or installation.

Should the terms of Items 1, 2, 3, and 4 of this warranty be met, and if the Verification Survey of Item 4 determines that AIMS' design and/or installation was the cause of the loss or complaint, AIMS will provide replacement material, free of charge, inclusive of all grating and grating attachment hardware, F.O.B. your shore base within a timely period after verification of loss or complaint. Further, the offshore labor to correct the situation will also be provided by AIMS free of charge. All offshore transportation from the shore base to the platform of AIMS material and personnel in conjunction with this warranty to be provided by ABC Oil Company. The term of this warranty is for a period of three (3) years beginning with the completion of the offshore installation of our grating and hardware or the post installation survey (warranty initialization survey), whichever comes last.

Should **ABC Oil Company** want to extend the warranty beyond the initial three (3) year term, please contact our offices to arrange for a Warranty Extension Survey. AIMS will then provide an engineer/technician to perform this survey. The offshore transportation associated with this survey shall be supplied by **ABC Oil Company**. Should any repair items or discrepancies be found during this renewal survey, and if AIMS is permitted to repair or correct these discrepancies, the Official Warranty Certificate will be extended for another three (3) year term. The Warranty can be extended on three (3) year intervals up to a maximum of five (5) times. After the warranty initialization survey, future surveys associated with grating losses from properly installed systems will be provided on AIMS' account. Costs related to the warranty initialization survey, as well as subsequent warranty extension surveys, will be invoiced by AIMS at the scheduled rates in effect at that time. Payment is required to activate warranty coverage.

Offshore Inspection by: **AIMS Service Inspector**

Date of Warranty Initialization Survey: **YYYY-MM-DD Initialization/Renewal**

Warranty Expiration Date: **YYYY-MM-DD**

Warranty applies to specific areas identified in drawings: AIMS Drawing No. **YYMMNN-101W Rev 0**

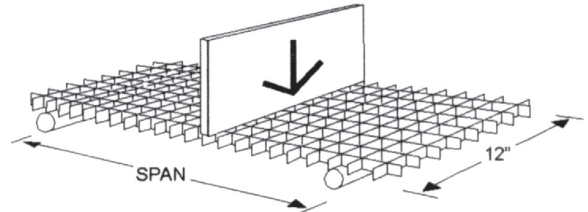
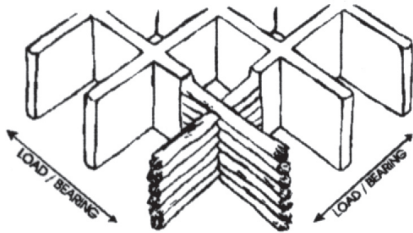
\_\_\_\_\_  
AIMS International, Inc.  
Rodney H. Masters, President

\_\_\_\_\_  
(Date)

Warranty is null and void without an AIMS warranty initialization survey and without a signed warranty certificate. **THIS DOCUMENT IS VERY IMPORTANT.** Please retain a copy for your records. A valid copy is required to initiate all requests for warranty claims.

# Load-Deflection Tables

## DeltaGrate™ HS Compression Molded Fiberglass Grating (High Strength)



### CONCENTRATED LINE LOAD - 12" WIDE

Deflection in Inches

	Average EI= 300,000 Lb-in <sup>2</sup> where A=1.92 in <sup>2</sup> I=.16 in <sup>4</sup> S=.32 in <sup>3</sup>
<b>1" x (1-1/2") mesh</b>	

1" Thick x 1-1/2" Square Mesh x 12" wide							
SPAN Inches	POUNDS PER FOOT						Break Point
	50	100	200	300	400	500	
18	0.025	0.047	0.082	0.117	0.151	0.185	4610
24	0.054	0.085	0.147	0.205	0.268	0.327	3340
36	0.115	0.252					1780
42	0.209	0.383					1350
48	0.228	0.476					1180

	Average EI= 900,000 Lb-in <sup>2</sup> where A=2.75 in <sup>2</sup> I=.52 in <sup>4</sup> S=.69 in <sup>3</sup>
<b>1-1/2" x (1-1/2") mesh</b>	

1-1/2" Thick x 1-1/2" Square Mesh x 12" wide							
SPAN Inches	POUNDS PER FOOT						Break Point
	50	100	200	300	400	500	
18	0.012	0.021	0.035	0.049	0.061	0.074	6810
24	0.028	0.043	0.067	0.090	0.115	0.138	5100
36	0.042	0.077	0.147	0.221	0.295	0.366	3510
42	0.091	0.157	0.275	0.392			2915
48	0.093	0.175	0.345				2534
60	0.161	0.304					2060

	Average EI= 2,500,000 Lb-in <sup>2</sup> where A=3.15 in <sup>2</sup> I=1.05 in <sup>4</sup> S=1.05 in <sup>3</sup>
<b>2" x (2") mesh</b>	

2" Thick x 2" Square Mesh x 12" wide							
SPAN Inches	POUNDS PER FOOT						Break Point
	50	100	200	300	500	1000	
36	0.018	0.034	0.072	0.106	0.175	0.355	7720
42	0.032	0.059	0.117	0.179	0.307	0.612	6615
48	0.046	0.088	0.181	0.272	0.446	0.934	5790
54	0.065	0.123	0.246	0.366	0.620		5145
60	0.077	0.150	0.301	0.455	0.770		4630

	Average EI= 500,000 Lb-in <sup>2</sup> where A=2.72 in <sup>2</sup> I=.23 in <sup>4</sup> S=.45 in <sup>3</sup>
<b>1" x (1"x4") mesh</b>	

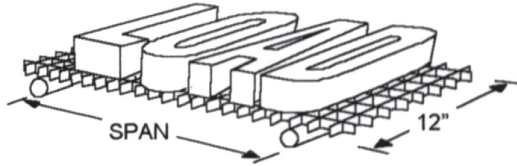
1" Thick x 1" x 4" Rectangular Mesh x 12" wide							
SPAN Inches	POUNDS PER FOOT						Break Point
	50	100	200	300	400	500	
12	0.014	0.021	0.034	0.045	0.054	0.064	9289
18	0.016	0.031	0.056	0.078	0.099	0.119	7095
24	0.030	0.057	0.106	0.151	0.193	0.238	4805
30	0.061	0.110	0.198	0.286	0.374	0.461	3850

Concentrated Line Load Testing was performed according to the testing method designed by the Fiberglass Grating Manufacturers Council (FGMC, Branch of the Society of Plastics, USA), according to the 3 Point Load Test. Testing panels of 1-1/2" and 1" have 8 bars, 12" wide, and all sides open. Testing panels of 2" have 6 bars, 12" wide, and all sides open.



# Load-Deflection Tables

## DeltaGrate™ HS Compression Molded Fiberglass Grating (High Strength)



### UNIFORM LIVE LOAD - 12" WIDE

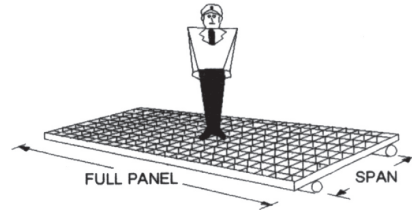
Deflection in Inches

1" Thick x 1-1/2" Square Mesh x 12" wide							
SPAN	POUNDS PER SQUARE FOOT						
Inches	60	80	100	120	140	200	240
24	0.057	0.076	0.093	0.111	0.127	0.175	0.206
30	0.141	0.186	0.230	0.273	0.315	0.450	0.540
36	0.287	0.379	0.468	0.562			

1-1/2" Thick x 1-1/2" Square Mesh x 12" wide							
SPAN	POUNDS PER SQUARE FOOT						
Inches	60	80	100	120	140	200	240
24	0.019	0.025	0.030	0.036	0.041	0.056	0.064
36	0.087	0.116	0.143	0.171	0.196	0.269	0.317
42	0.158	0.210	0.260	0.308	0.354	0.497	
48	0.270	0.358	0.443	0.528			

2" Thick x 2" Square Mesh x 12" wide							
SPAN	POUNDS PER SQUARE FOOT						
Inches	60	80	100	120	140	200	240
36	0.037	0.049	0.060	0.071	0.082	0.115	0.137
42	0.068	0.090	0.111	0.134	0.154	0.216	0.256
48	0.116	0.153	0.190	0.226	0.262	0.366	0.434
54	0.182	0.243	0.302	0.358	0.414	0.580	
60	0.281	0.372	0.461	0.552	0.639		

1" Thick x 1" x 4" Rectangular Mesh x 12" wide							
SPAN	POUNDS PER SQUARE FOOT						
Inches	60	80	100	120	140	200	240
24	0.044	0.058	0.072	0.084	0.097	0.131	0.153
30	0.101	0.134	0.166	0.198	0.225	0.304	0.354
34	0.149	0.197	0.247	0.298	0.343	0.495	



### CONCENTRATED FULL PANEL LOAD - 4' x 12'

Deflection in Inches

1" Thick x 1-1/2" Square Mesh x 4' x 12'							
SPAN	POUNDS						
Inches	100	250	500	750	1000	1500	2000
18	0.010	0.027	0.061	0.085	0.105	0.164	0.206
24	0.029	0.065	0.125	0.182	0.241	0.359	0.477
36	0.070	0.175	0.347	0.518			
48	0.116	0.297	0.593				

1-1/2" Thick x 1-1/2" Square Mesh x 4' x 12'							
SPAN	POUNDS						
Inches	100	250	500	750	1000	1500	2000
18	0.008	0.016	0.028	0.035	0.045	0.066	0.087
24	0.014	0.035	0.059	0.075	0.095	0.139	0.168
36	0.024	0.059	0.114	0.163	0.213	0.313	0.416
48	0.036	0.094	0.185	0.274	0.362	0.538	

2" Thick x 2" Square Mesh x 4' x 12'							
SPAN	POUNDS						
Inches	200	400	600	1000	1500	2000	2500
18	0.010	0.013	0.018	0.028	0.040	0.053	0.067
24	0.015	0.034	0.044	0.060	0.080	0.100	0.123
36	0.026	0.048	0.070	0.114	0.165	0.217	0.266
48	0.037	0.073	0.108	0.179	0.268	0.365	0.443

1" Thick x 1" x 4" Rectangular Mesh x 3' x 10'							
SPAN	POUNDS						
Inches	100	250	500	750	1000	1500	2000
18	0.011	0.027	0.057	0.087	0.107	0.165	0.213
24	0.028	0.060	0.139	0.182	0.237	0.363	0.484
36	0.064	0.156	0.308	0.465			

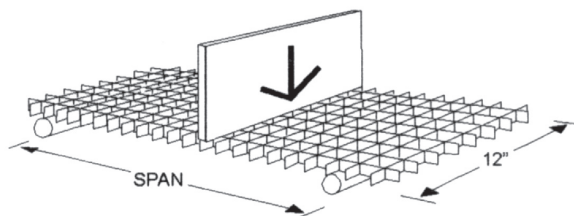
The load data provided here is for general information only as actual environment and operational conditions are beyond our control. For these reasons, AIMS International, Inc. cannot guarantee that actual performance will correspond to the load tables provided here.

# Load-Deflection Tables

## DeltaGrate™ FabTread

**AIMS Fabricated Tread 1-1/2" Thick x (1-1/2" x 1-1/2")  
Square Mesh with Embedded FRP Angle Nosing**

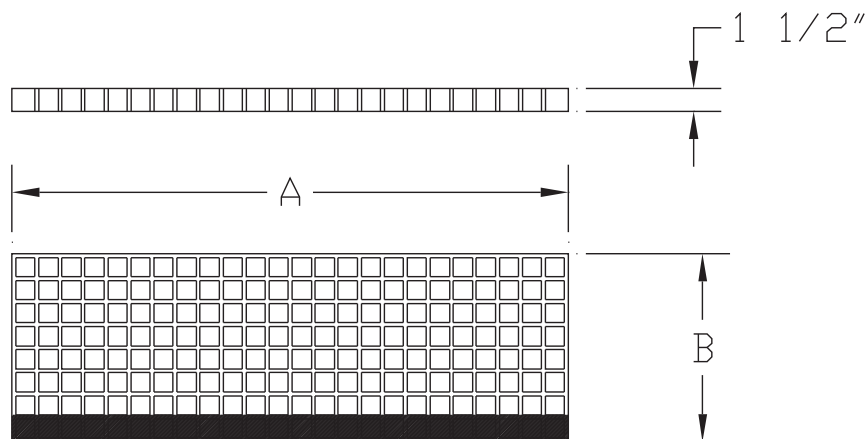
**Deflection Table of Stair Treads**



**Concentrated Line Load: 250lbs**

**Deflection in Inches**

Tread Depth	Span (inches)				
	24"	30"	36"	42"	48"
9" Width	0.072	0.100	0.150	0.238	0.355
10-1/2" Width	0.055	0.089	0.135	0.220	0.319
12" Width	0.040	0.071	0.117	0.186	0.277



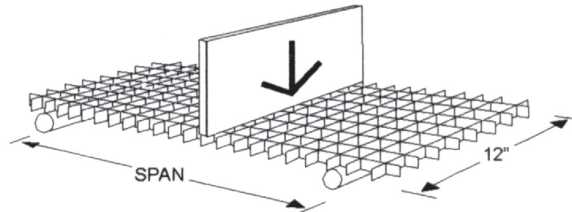
Dimensions "A" and "B" to be determined by customer.  
Nosing filled with grit, black, yellow, or gray color.

# Load-Deflection Tables

## DeltaTread™

### AIMS DeltaTread™: 1-1/2" Thick x (1-1/2" x 1-1/2") Rectangular Mesh with Molded Nosing

#### Deflection Table of Stair Treads



#### Concentrated Line Load

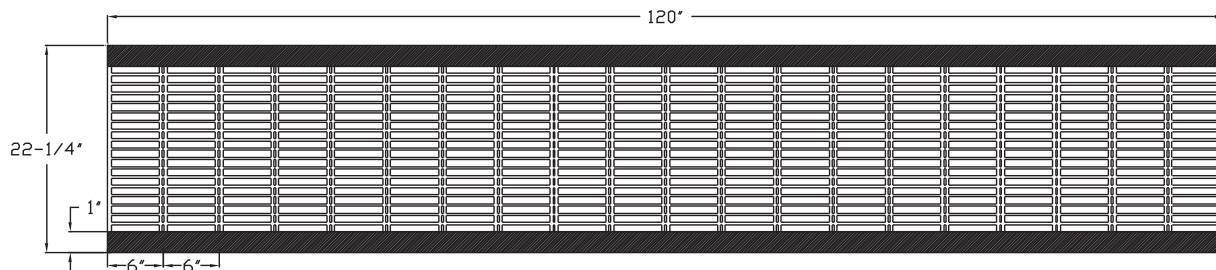
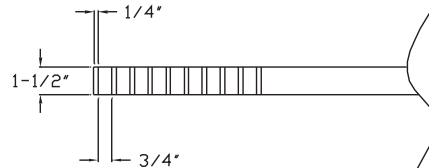
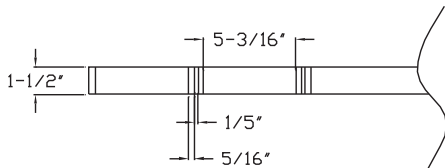
#### Deflection in Inches

SPAN Inches	9" Width					
	POUNDS PER FOOT					
	50	100	200	300	400	500
18	0.010	0.020	0.039	0.057	0.076	0.097
24	0.017	0.037	0.071	0.108	0.146	0.183
36	0.031	0.062	0.125	0.191	0.257	0.322
42	0.051	0.100	0.197	0.303	0.411	0.515
48	0.073	0.150	0.294	0.448	0.602	

SPAN Inches	10" Width					
	POUNDS PER FOOT					
	50	100	200	300	400	500
18	0.010	0.018	0.036	0.053	0.070	0.085
24	0.016	0.032	0.065	0.098	0.132	0.165
36	0.028	0.056	0.113	0.170	0.227	0.284
42	0.042	0.085	0.171	0.261	0.357	0.451
48	0.065	0.128	0.256	0.386	0.512	0.650

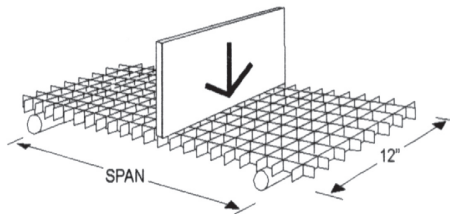
SPAN Inches	11" Width					
	POUNDS PER FOOT					
	50	100	200	300	400	500
18	0.007	0.015	0.031	0.046	0.063	0.076
24	0.014	0.030	0.061	0.091	0.120	0.151
36	0.020	0.062	0.102	0.154	0.207	0.259
42	0.037	0.073	0.154	0.234	0.323	0.399
48	0.059	0.118	0.232	0.350	0.478	0.598

SPAN Inches	12" Width					
	POUNDS PER FOOT					
	50	100	200	300	400	500
18	0.009	0.016	0.032	0.048	0.063	0.080
24	0.014	0.027	0.057	0.086	0.116	0.146
36	0.025	0.049	0.098	0.148	0.197	0.247
42	0.039	0.077	0.158	0.236	0.317	0.396
48	0.055	0.112	0.227	0.347	0.469	0.587



# Load-Deflection Tables

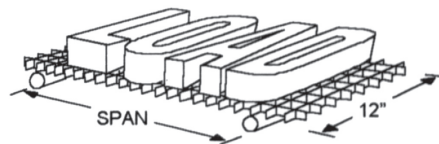
## DeltaGrate™ Mini-Mesh Grating



**Concentrated Line Load**

**Deflection in Inches**

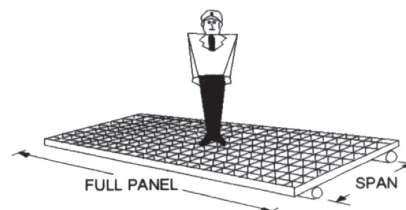
SPAN Inches	12" Width POUNDS PER FOOT								
	100	200	300	400	500	750	1000	1500	2000
18	0.017	0.034	0.050	0.067	0.085	0.126	0.167	0.252	0.336
24	0.043	0.086	0.129	0.172	0.215	0.322	0.431	0.648	0.864
36	0.119	0.246	0.379	0.508	0.629	0.944			
42	0.201	0.405	0.608	0.811					
48	0.306	0.616	0.924						



**Uniform Live Load**

**Deflection in Inches**

SPAN Inches	12" Width POUNDS PER FOOT										
	60	80	100	120	140	160	180	200	220	240	260
18	0.009	0.012	0.015	0.018	0.021	0.023	0.026	0.029	0.031	0.034	0.360
24	0.032	0.043	0.053	0.063	0.072	0.081	0.091	0.099	0.108	0.119	0.123
36	0.135	0.179	0.220	0.261	0.301	0.343	0.381	0.420	0.462	0.504	0.566
42	0.254	0.336	0.419	0.498	0.580	0.663	0.746	0.829	0.912	0.995	
48	0.424	0.560	0.700	0.840	0.980						



**Concentrated Full Panel Load**

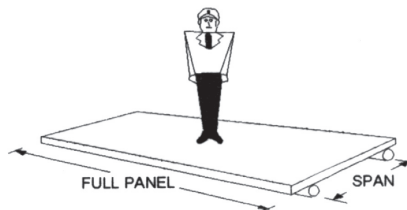
**Deflection in Inches**

SPAN Inches	1m x 3m POUNDS						
	100	250	500	750	1000	1500	2000
18	0.017	0.017	0.033	0.049	0.064	0.095	0.123
24	0.014	0.036	0.071	0.101	0.134	0.193	0.253
36	0.036	0.098	0.190	0.279	0.367	0.548	0.730



# Load-Deflection Tables

## DeltaPlate™



**Concentrated Load - Full Panel**

**Deflection in Inches**

1/4" Thick Plate										
SPAN Inches	Concentrated Load - Full Panel									
	100	200	250	300	400	500	750	1000	1500	2000
12	0.045	0.086	0.105	0.147	0.158	0.200	0.298	0.398		
18	0.080	0.147	0.180							
24	0.101	0.212	0.268							
34	0.350									

**Concentrated Load - Full Panel**

**Deflection in Inches**

3/8" Thick Plate										
SPAN Inches	Concentrated Load - Full Panel									
	100	200	250	300	400	500	750	1000	1500	2000
12	0.020	0.039	0.048	0.058	0.077	0.095	0.142	0.192		
18	0.030	0.062	0.078	0.094	0.125	0.160	0.241	0.325		
24	0.101	0.212	0.268	0.322	0.429					
34	0.179	0.358								

**Concentrated Load - Full Panel**

**Deflection in Inches**

1/2" Thick Plate										
SPAN Inches	Concentrated Load - Full Panel									
	100	200	250	300	400	500	750	1000	1500	2000
12	0.010	0.020	0.025	0.030	0.040	0.049	0.076	0.102		
18	0.012	0.030	0.039	0.047	0.062	0.082	0.126	0.172		
24	0.045	0.082	0.100	0.120	0.160	0.193				
34	0.125	0.229	0.281	0.337						

**Concentrated Load - Full Panel**

**Deflection in Inches**

5/8" Thick Plate										
SPAN Inches	Concentrated Load - Full Panel									
	100	200	250	300	400	500	750	1000	1500	2000
12	0.005	0.010	0.013	0.015	0.020	0.025	0.039	0.052	0.078	0.104
18	0.080	0.015	0.020	0.024	0.032	0.042	0.065	0.088	0.132	0.176
24	0.101	0.042	0.051	0.061	0.082	0.099	0.148	0.198		
34	0.350	0.117	0.144	0.173	0.230	0.288				

**Concentrated Load - Full Panel**

**Deflection in Inches**

3/4" Thick Plate										
SPAN Inches	Concentrated Load - Full Panel									
	100	200	250	300	400	500	750	1000	1500	2000
12	0.003	0.006	0.007	0.008	0.011	0.013	0.019	0.024	0.036	0.048
18	0.009	0.019	0.024	0.029	0.038	0.045	0.065	0.080	0.120	0.160
24	0.020	0.036	0.044	0.053	0.070	0.077	0.108	0.135	0.203	
34	0.029	0.055	0.068	0.082	0.109	0.130	0.090	0.245		

# Chemical Resistance Guide

CHEMICAL ENVIRONMENT	TYPE 'VEFR-25'		TYPE 'IFR-25'	
	% CONCENTRATION	MAX. OPER. TEMP F/C	% CONCENTRATION	MAX. OPER. TEMP F/C
Acetic Acid	50	180/82	50	125/52
Aluminum Hydroxide	100	180/82	100	160/71
Ammonium Chloride	All	210/99	All	170/77
Ammonium Hydroxide	28	100/38	28	N/R
Ammonium Bicarbonate	50	160/70	15	125/52
Ammonium Sulfate	ALL	210/99	ALL	170/77
Benzene	N/R	N/R	N/R	N/R
Benzoic Acid	SAT	210/99	SAT	150/66
Borax	SAT	210/99	SAT	170/77
Calum Carbonate	ALL	180/82	ALL	170/77
Calcium Nitrate	ALL	210/99	ALL	180/82
Carbon Tetrachloride	100	150/65	N/R	N/R
Chlorine, Dry Gas	-	210/99	-	140/60
Chlorine Water	SAT	200/93	SAT	80/27
Chromic Acid	10	150/65	5	70/21
Citric Acid	ALL	210/99	ALL	170/77
Copper Chloride	ALL	210/99	ALL	170/77
Copper Cyanide	ALL	210/99	ALL	170/77
Copper Nitrate	ALL	210/99	ALL	170/77
Ethanol	50	100/38	50	75/24
Ethylene Glycol	100	200/93	100	90/32
Ferric Chloride	ALL	210/99	ALL	170/77
Ferrous Chloride	ALL	210/99	ALL	170/77
Formaldehyde	ALL	150/65	50	75/24
Gasoline	100	180/82	100	80/27
Glucose	100	210/99	100	170/77
Glycerine	100	210/99	100	150/66
Hydrobromic Acid	50	150/65	50	120/49
Hydrochloric Acid	37	150/65	37	75/24
Hydrogen Peroxide	30	150/65	5	100/38
Lactic Acid	ALL	210/99	ALL	170/77
Lithium Chloride	SAT	210/99	SAT	150/66
Magnesium Chloride	ALL	210/99	ALL	170/77
Magnesium Nitrate	ALL	210/99	ALL	140/60
Magnesium Sulfate	ALL	210/99	ALL	170/77
Mercuric Chloride	100	210/99	100	150/66
Mercurous Chloride	ALL	210/99	ALL	140/60
Nickel Chloride	ALL	210/99	ALL	170/77
Nickel Sulfate	ALL	210/99	ALL	170/77
Nitric Acid	20	120/49	20	70/21
Oxalic Acid	ALL	210/99	ALL	75/24
Perchloric Acid	30	100/38	N/R	N/R
Phosphoric Acid	100	210/99	100	120/49
Potassium Chloride	ALL	210/99	ALL	170/77
Potassium Dichromate	ALL	210/99	ALL	170/77
Potassium Nitrate	ALL	210/99	ALL	170/77
Potassium Sulfate	ALL	210/99	ALL	170/77
Propylene Glycol	ALL	210/99	ALL	170/77
Sodium Acetate	ALL	210/99	ALL	160/71
Sodium Bisulfate	ALL	210/99	ALL	170/77
Sodium Bromide	ALL	210/99	ALL	170/77
Sodium Cyanide	ALL	210/99	ALL	170/77
Sodium Hydroxide	25	180/82	N/R	N/R
Sodium Nitrate	ALL	210/99	ALL	170/77
Sodium Sulfate	ALL	210/99	ALL	170/77
Stannic Chloride	ALL	210/99	ALL	160/71
Sulfuric Acid	75	100/38	25	75/24
Tartaric Acid	ALL	210/99	ALL	170/77
Vinegar	100	210/99	100	170/77
Water, Distilled	100	180/82	100	170/77
Zinc Nitrate	ALL	210/99	ALL	170/77
Zinc Sulfate	ALL	210/99	ALL	170/77

ALL...ALL Concentrations SAT...Saturated Solution N/R...Not Recommended ....No Information Available

The corrosion-resistance data listed above is for general information only. Resin manufacturers have provided test data that indicates that the specific resin can withstand the corrosion conditions listed above. AIMS International, Inc. believes the data to be true and accurate, but no guarantee is expressed or implied as to specific performance. Testing for specific environments is recommended. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material sold by AIMS International, Inc.

# Field Fabrication & Installation

**SAFETY PRECAUTIONS** – When cutting DeltaGrate™ HS 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 a well-lighted and ventilated area. Always read the MSDS (Material Safety Data Sheet) before cutting and sealing DeltaGrate™ HS 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 DeltaGrate™ Grating will produce dust – this dust is non-carcinogenic but may cause some skin irritation.

**CUTTING DELTAGRATE™** – 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, 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).

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 with 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. **ALL CUT EDGES MUST BE SEALED.** For this, use AIMS International's Zynolite, a premium grade exterior polyurethane enamel specially formulated to effectively seal cut surfaces of fiberglass products and 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. AIMS International's 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.





*Fiberglass Structure-Wellhead  
Access Platform*

## Market Applications

AIMS International's products and services have been successfully used in various applications in many different industries. Wherever there is value placed on safety, eliminating maintenance expenditures, ease of installation, and long service life, AIMS International should be consulted. The following are industries and locations where our products are found.

- *Offshore drilling & production facilities* as wellhead access platforms around the wells & vessels, stair towers, grating systems, electrical cable trays, and mudmats
- *Petrochemical plants & refineries* as walkways and platforms around vessels and equipment, stair towers, and trench grating
- *Industrial & municipal wastewater facilities* as walkways, catwalks, in and around clarifiers, settling basins, and platforms used as storage areas
- *Pulp & paper mills* as walkways & catwalks in and around their waste water plants, including bleaching and washing areas
- *Metal plating & mining facilities* as platforms in the processing areas, catwalks, stair towers, and storage areas
- *Commercial warehouses* as additional storage areas and mezzanines
- *Beverage & food processing plants* as grating systems and platforms in and around the wash-down areas, access platforms, and storage areas
- *Hi-tech computer industry facilities* in clean rooms and etching areas
- *Water park & recreational facilities* as trench grating in and around pools and structural systems for the flowing streams
- *Cooling tower industry* as access walkways and towers and de-misters

Some features of AIMS' products making them attractive to these industry applications are:

- Excellent corrosion resistance and elimination of maintenance
- Lightweight and ease of installation
- High strength-to-weight ratio
- Excellent non-skid characteristics, safety, and ergonomics
- Fire resistance
- Electrical and thermal non-conductivity
- Durability and long service life
- **Return on Investment**



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AIMS International has partners in most countries around the globe. Please contact AIMS for details in your country.