



الشركة المصرية للمنتجات الراتنجية (الغلاف) ش.م.م

EGYPTIAN COMPANY FOR RESIN'S PRODUCTS (AL AULA FAB) S.A.E



AL AULA FAB FRP GRATING

مشايات الفير جلاس



PROFESSIONAL MAKES PERFECT QUALITY

LARGE SCALE MAKES BEST PRICE



COMPANY PROFILES

ALAULAFAB is leading this field in Egypt and the middle east from about 40 years, during this period ALAULAFAB succeeded to formulate a new definition for quality and customer service, this definition was applied to raw materials and machines' suppliers and ending by providing highly technical after sale service. If consultants and specialists prefer using ALAULAFAB products, this makes us feel the big responsibility to keep our high quality standard, and to keep ALAULAFAB name always a name with a respectable great history. Our aim is to deliver high quality Fiberglass products at reasonable prices, on time.

Fiberglass, GRP "Glass Reinforced Polyester", FRP "Fiberglass Reinforced Polyester" Are All Synonyms For The Same Class Of Smart Products That Offer Great Properties In Terms Of: Light Weight, High Mechanical And Chemical Properties, Water Resistance ... Etc. Fiberglass Is Now Invading A Lot Of Applications In A Diversity Of Fields Starting From Park Toys, Sky Lights, Tanks And Ending With Military High Precision Superior Products.

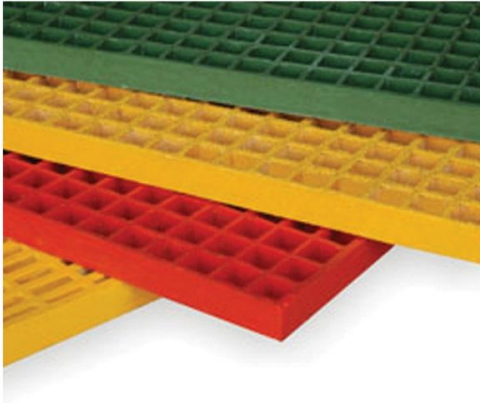
التعريف بالشركة

تتميز شركة العلافاب بخبراتها العريقة في مجال الصناعات الكيمايئة من منتجات مقواه بالفيبر جلاس (مشايات - خزانات ألعاب أطفال - الواح ورولات - ...) حيث تعمل في هذا المجال منذ مايقرب من 30 عام تمكنت من خلالها من إحتلال مكانة - متميزة في السوق المصري والعربي، وأرست خلالها مفهوماً جديداً للجودة و خدمة المستهلك، وقد استغلت شركة العلافاب ،هذا الموروث لتطبيق احداث اساليب الجودة الشاملة بدءاً من تطبيق معايير دقيقة لاختيار موردي الخامات والمعدات إنتهاءً بتقديم الدعم الفني وخدمة ما بعد البيع لعملائها

وإذا كان الاستشاريون المتخصصون يوصون باستخدام منتجات شركة العلافاب لمزاياها الفنية العالية فان ذلك يحملنا مسؤولية الحفاظ على هذا المستوى الراق من الجودة، ليستحق اسم العلافاب أن يكون اسماً له تاريخ.

1. ALAULAFAB Molded Grating

مشايات العلافاب (طريقة الصب)



ALAULAFAB molded FRP gratings are plate-like products consisting of regular meshes formed in large metal molds with hand-laid glass fiber reinforcement and cast up resin as matrix. The symmetric square meshes of these gratings impart isotropic properties in longitudinal and transverse directions, thus resulting in higher strength and integrity.



2. ALAULAFAB Purltruded Grating

مشايات العلافاب (طريقة السحب)



Purltruded FRP grating is made up of standard "I" and "T" shapes. They are a specially processed sheet-like material with great many blanks. They are widely used as structural material in industries such as petroleum, chemical, Power, Ocean exploration, electric plating, marine, waste water treatment, and even used as work platforms, equipment tables, stair treads, underground drainage covers and bridge passages.



BENEFITS AND APPLICATIONS OF ALAULAFAB FRP GRATINGS

المميزات والتطبيقات

FRP Composites consist of an engineered polymer plastic reinforced with fiber glass and can be additionally enhanced with other elements such as additives and core materials. This combination can produce some of the strongest and most versatile materials for their Weight that technology has ever developed.

مركبات الفايبرجلاس تتكون من بوليمرات البلاستيك المسلحة بالألياف الزجاجية ويمكن تعزيز الخواص بأضافة عناصر اخرى من الاضافات والمواد المائه هذا المزيج ينتج منتجات تتميز بالمتانة والقوة مقارنة بوزنها

RESISTANCE TO ENVIRONMENTAL FACTORS

مقاومة العوامل البيئية

Freeze-thaw: Because FRP composites are not attacked by galvanic corrosion and have low water absorption they resist the destructive expansion of freezing water so it meets the standards of harsh marine environments.

Weathering and Ultra-violet Light

الطقس والأشعة فوق البنفسجية

FRP composite structures designed for weather exposure are normally fabricated with a surface layer containing a pigmented gel coat or have an ultraviolet (UV) inhibitor included as an additive to the composite matrix. Both methods provide protection to the underlying material by screening out UV rays and minimizing water absorption along the fiber/ resin interface. Chemicals and Temperature: FRP composite do not rust or corrode and can be formulated to provide long-term resistance to nearly every chemical and temperature environment

ANTI-SLIP

مانعة للإنزلاق

ALAULAFAB? FRP molded grating has various surfaces that can provided a super anti-skid performance. The general profiles and textures include "concave", "grit", "diamond top", and "grit cover". A smooth surface can increase the possibility of the worker slipping and falling in a wet environment such as marine walkways or decks. Caustic and acid resistant FRP platforms and handrails may be used in chemical plants.

NON-ELECTRICITY CONDUCTIVE

غير موصلة للكهرباء

FRP products have no magnetic properties and will not conduct electricity so it can take the place of steel products on magnet-sensitive and power-conductive platform and walkways.

FIRE-RESISTANCE

مقاومة للحريق

Composites can be designed to meet the most stringent fire regulations by the use of special resins and additives. High grade resin as well as fire-retardants provide grating with excellent fire resistant performance and its oxygen index is not less than 26. Flame speed is less 25 class. Smoke density is less than 500.

AGIENG RESISTANCE

طويلة الأجل

High grade resin provides FRP products long term life. The service life of the FRP products may be over 20 years and has excellent self-cleaning functions. Colors and properties of strength can last for years.



Corrosion Resistant مقاومة للتآكل



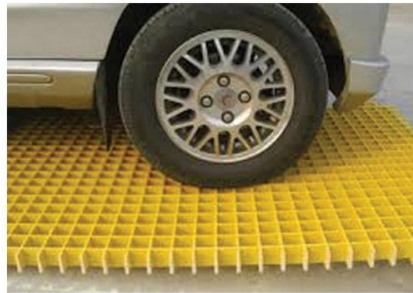
Easy to Maintain سهولة التنظيف



Non-Slip عدم الانزلاق



Fire Resistant مقاومة للحرائق



Strong قوى



Light Weight خفيف الوزن


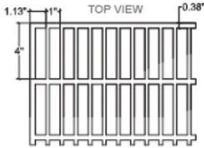

★ RESIN CHOICES

★ خيارات الراتنج

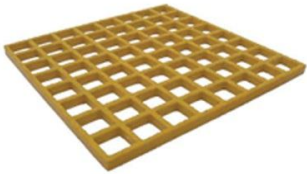
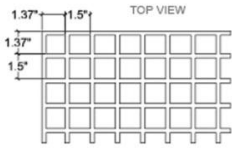
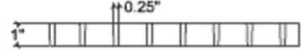
Resin Type أنواع الراتنج	Function
Orthophthalic Polyester أورثو فيتاليك بوليستر	Has a fine heat resistance
Isophthalic أيزو فيتاليك	Has a comparative fine corrosion resistance
Vinly ester فنيل ايستر	Has an excellent corrosion resistance (recommended)

AL AULAFAB MOLD FRP GRATING SPECIFICATION AND ILLUSTRATION IN INCH

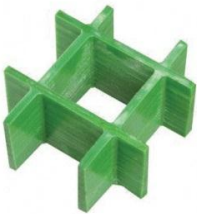
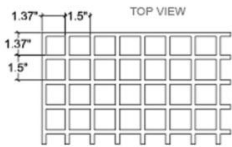
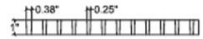
NO.01 1"x4"x1" MOLDED GRATING

		TOP VIEW مسقط أفقى		ELEVATION مسقط رأسى
				
grid شبكة	Load bar thickness سمك شريط التحميل	open area منطقة مفتوحة	weight الوزن	Available Size المقاس المتاح
1x4x1	3/8	52%	19.3kg/m2	


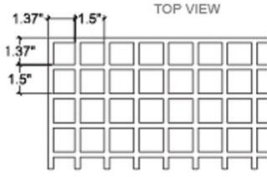
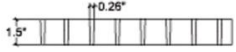
NO.02 1.5"x1.5"x1"

		TOP VIEW مسقط أفقى		ELEVATION مسقط رأسى
				
grid شبكة	Load bar thickness سمك شريط التحميل	open area منطقة مفتوحة	weight الوزن	Available Size المقاس المتاح
1.5x1.5x1	1/4	68%	12.00kg/m2	


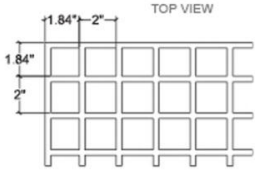
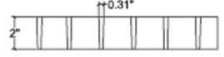
NO.03 1.5"x1.5"x1.25"

		TOP VIEW مسقط أفقى		ELEVATION مسقط رأسى
				
grid شبكة	Load bar thickness سمك شريط التحميل	open area منطقة مفتوحة	weight الوزن	Available Size المقاس المتاح
1.5x1.5x1.25	1/4	68%	14.7kg/m2	

NO.04 1.5"x1.5"x1.5"

				
	grid شبكة	Load bar thickness سمك شريط التحميل	open area منطقة مفتوحة	weight الوزن	Available Size المقاس المتاح
1.5x1.5x1.5	1/4	68%	19kg/m2	

NO.05 2"x2"x2"

				
	grid شبكة	Load bar thickness سمك شريط التحميل	open area منطقة مفتوحة	weight الوزن	Available Size المقاس المتاح
2x2x2	1/4	71%	20.0kg/m2	

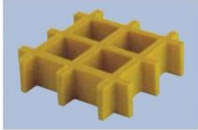
AL AULAFAB MOLDED GRATING SELECTION DETAILS IN METRIC

THICKNESS (MM) سماكة	MESH (mm)	PANNEL SIZE (mm) مقاس اللوح	OPEN AREA (%)	WEIGHT (KG) الوزن
25	25x100		52	19.3
25	38x38		68	13.00
31.80	38x38		68	15.00
38	38x38		68	19.00
40	40x40		72.3	19.00
50	50x50		71	20.00

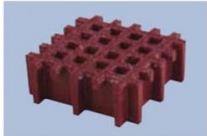
AL AULAFAB MOLDED SURFACE

أنواع الاسطح

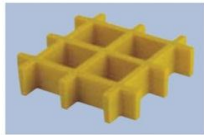
GENERAL SURFACE



NO.1
CONCAVE SURFACE
Anti-Slip

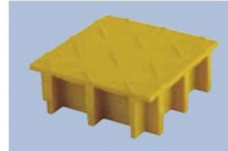


NO.2
GRIT SURFACE
Anti-Slip
Anti-Friction

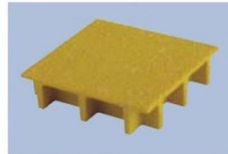


NO.3
SMOOTH SURFACE
Anti-Pollution
Anti-microbe
Liquid not rest

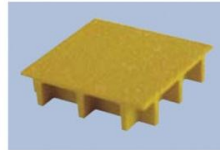
COVERED SURFACE



NO.4
DIAMOND TOP SURFACE
Anti-Slip
Anti-Liquid Escaping

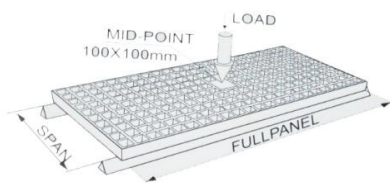


NO.5
SMOOTH COVER SURFACE
Anti-Pollution Anti-microbe,
Liquid not rest
Anti-Liquid Escaping

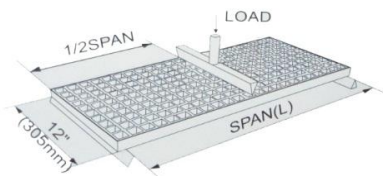


NO.6
GRIT COVER SURFACE
Anti-Slip
Anti-Liquid Escaping

AL AULAFAB LOAD OF MOLDED GRATING



Concentrated load: full Panel



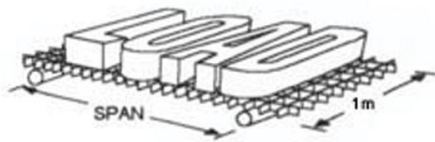
Concentrated load: 12" Wide Strip

Maximum loads of full panel for concentrated load dgf table 1

Lattice size	38x38x25			38x38x38			25x100x25			50x50x50		
	Deflection choice											
	F	S	1%	F	S	1%	F	S	1%	F	S	1%
463	335	482	592	708	1061	1273	322	482	580	900	1350	1620
615	228	323	412	524	786	942	225	340	404	820	1230	1476
919	125	188	240	335	456	564	126	189	226	619	928	1161
1223	82	115	148	210	314	377	97	145	174	404	606	732
1527	...	...	...	135	203	243	...	...	...	...	...	...

Maximum loads of 12" Wide Strip for Concentrated load kgf 2 table 2

Lattice size	38x38x25			38x38x38			25x100x25			50x50x50		
	Deflection choice											
	F	S	1%	F	S	1%	F	S	1%	F	S	1%
311	225	337	405	573	859	1032	330	495	595	899	1349	1620
463	125	175	208	370	555	666	177	265	319	512	768	922
615	67	98	117	208	314	373	103	155	185	350	525	632
919	29	43	52	93	140	167	46	68	82	189	284	341
1227	...	...	...	51	77	92	33	49	58	111	167	197



Uniformed Load

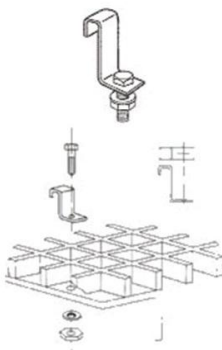
Maximum loads of full panel for uniform load kgf 3 table 3

Lattice size Span (mm)	38x38x25			38x38x38			25x100x25			50x50x50		
	Deflection choice											
	F	S	1%	F	S	1%	F	S	1%	F	S	1%
311	3089	4636	5563	...	...	...	5366	8053	9661	16849	25296	30360
463	912	1371	1644	3840	6308	7570	2008	3015	3619	5998	8998	10800
615	381	576	693	1615	2659	3192	858	1287	1545	2880	4320	5185
919	112	171	205	478	708	849	337	507	609	1108	1663	1996
1227	...	...	...	200	293	351	138	207	249	467	702	843

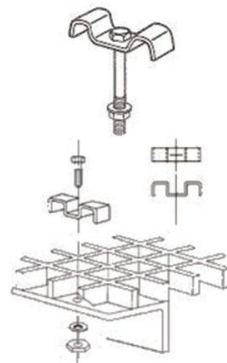
F ... Solid Deflection to span ratio is 1: 180
 S ... Standard Deflection to span ratio is 1: 120
 1% ... 1% Deflection to span ratio is 1: 100

AL AULA FAB MOLDED GRATING INSTALLATION ACCESSORIES

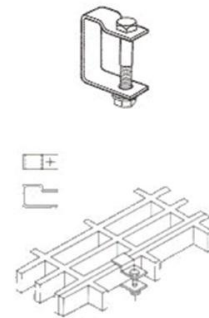
ملحقات التركيب



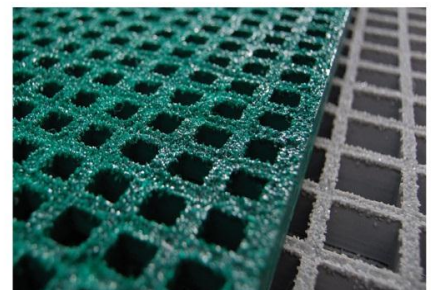
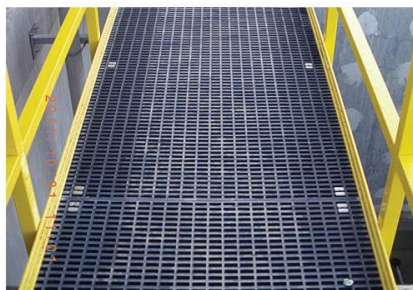
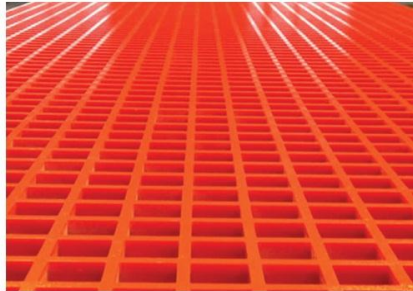
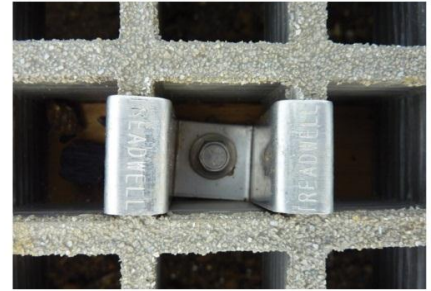
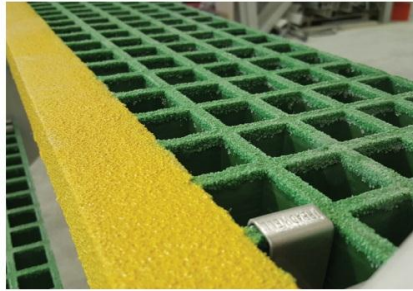
Type L Clip-for use in Securing grating to support frames



Type M Down Clips-Designed to fix grating on support structure & prevent it from tuning in all four directions



Type C Clips-Applied to connect two adjacent grating bars





الشركة المصرية للمنتجات الراتنجية (العلا فاب)

EGYPTIAN COMPANY FOR RESIN'S PRODUCTS
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