



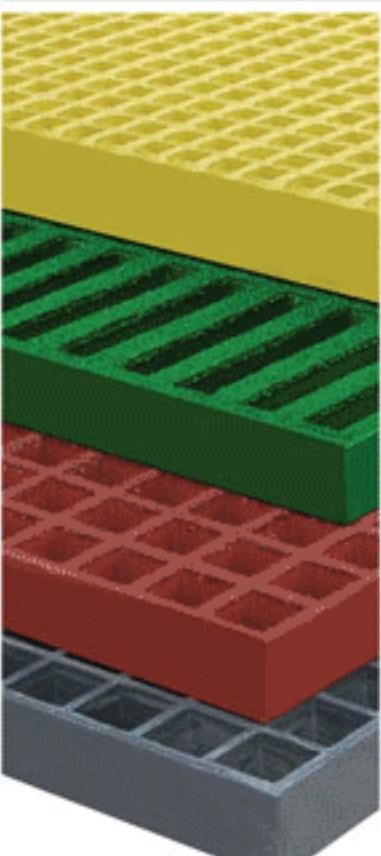
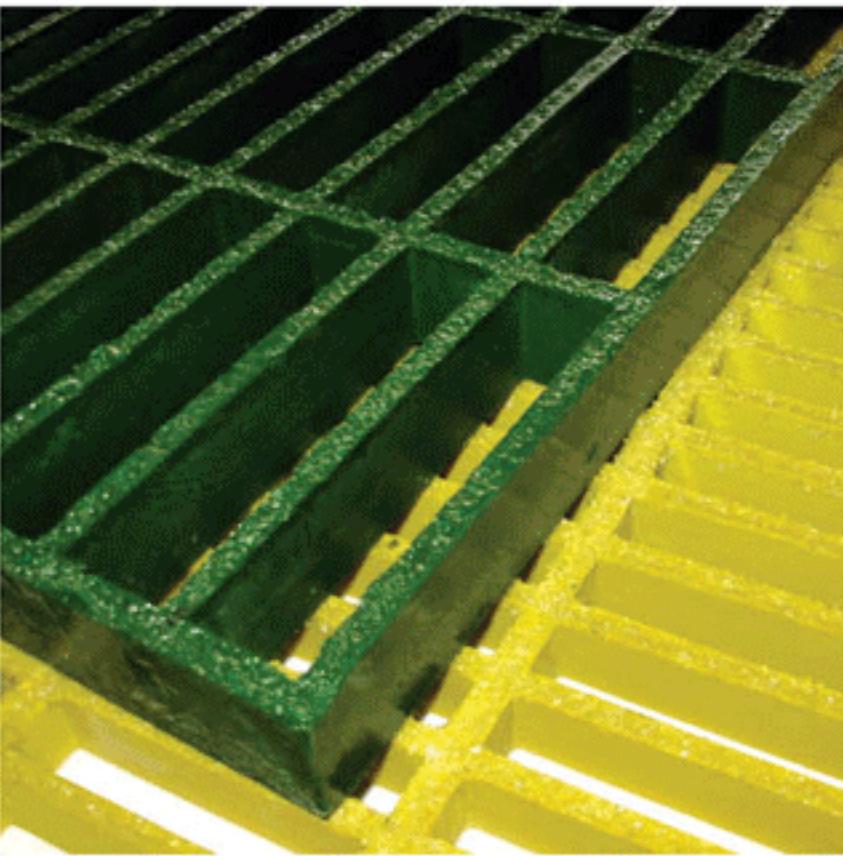
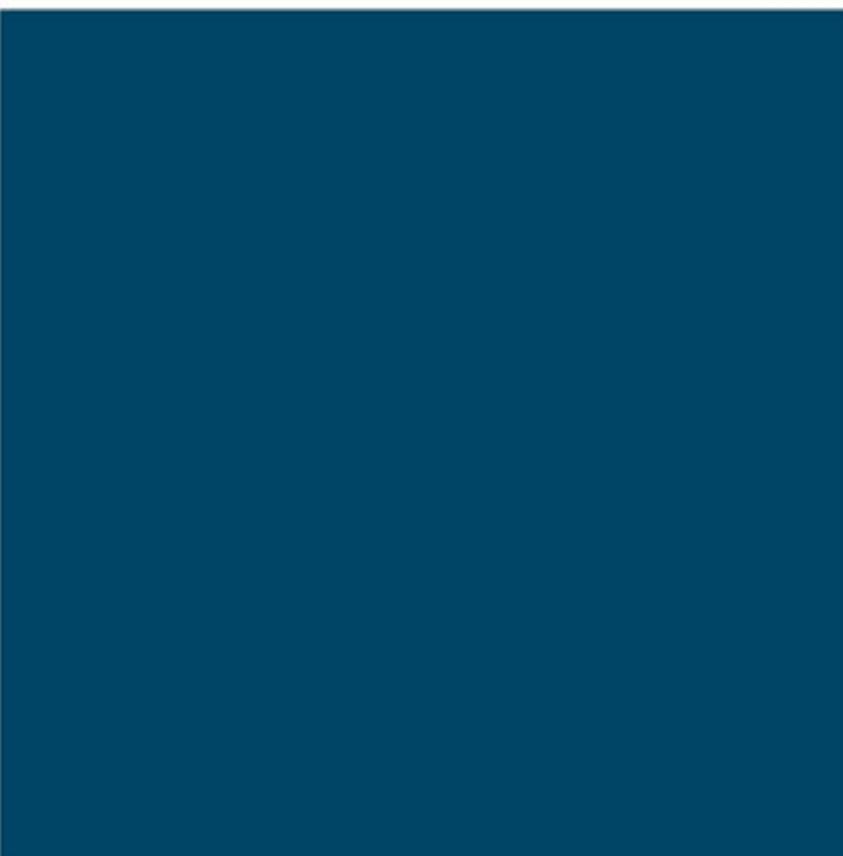
CHINAGRATE

CHINAGRATE
Molded Fiberglass Grating
Guide



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www.chinagrate.com

MOLDED Fiberglass Grating Guide





Chinagrate molded fiberglass gratings provide a cost effective solution and long lasting performance for many industrial and recreational applications over a wide span of aggressive and corrosive environments.

Chinagrate molded gratings are constructed in one-piece from continuous fiberglass rovings and a wide range of premium polyester or vinyl ester resins. Unique three-step weaving process ensures all glass reinforcements are in the center of bars and protected by outer rich resin layers.

Chinagrate sets the standard for manufacturing excellence in the industry. We maintain one of the largest mold pool in the world, thus enable us to offer the largest selections in panel sizes, colors, resins and surface systems. Our 24 x 7 around the clock operation enable us to achieve manufacture capacity of 8 million pounds per annum.

Our quality control system is second to none. Through years of experience, we formulated a unique quality control system called "Verifiable Quality". All our grating panels are tested and verified by our in-house staff against a "quick deflection ratio" within 48 hours after curing. This quality control process enables us and our customer to have a peace of mind to know that every panel we make and sell is as good as published data.

All Chinagrate brand products meet ASTM E-84 fire test standards. They are independently test by third-party testing agencies and by our customers for load and deflection data, using testing methods set forth by Fiberglass Grating Manufacturers Council of ACMA.

Chinagrate is located in Nantong, Jiangsu Province, PR China, across the Yangtze River from Shanghai. Currently, Chinagrate employs more than 250 full-time staff, and occupies a brand new manufacturing facility of more than 10 acres.

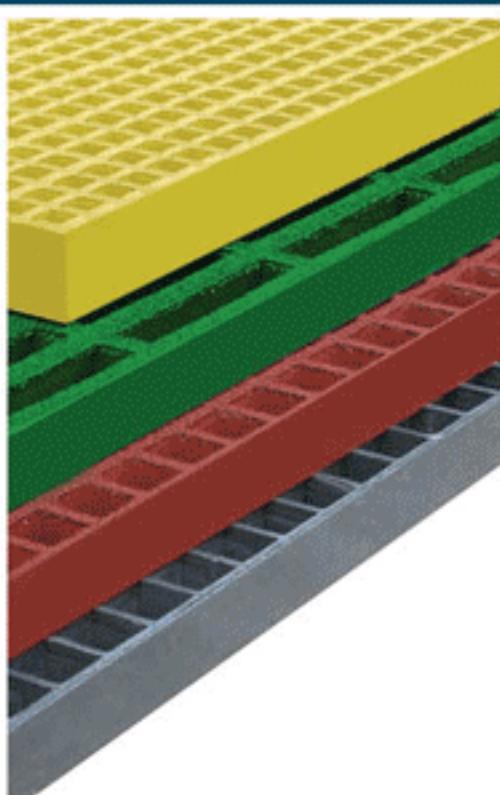
Chinagrate is privately owned, and its facility is ISO 9001:2000 certified.

Molded Grating Process

Molded grating is manufactured by our skilled worker through manual hand lay-up in an open, heated steel mold. Continuous fiberglass roving is laid in the mold in alternating layers and thoroughly wetted out with vinyl ester or polyester resin.

This continuous process constructs a one piece panel that offers excellent corrosion resistance and bidirectional strength in both bearing and cross bars. This process involves constant monitoring of temperature control and curing cycle.

When the panel naturally cured, the surface shall have a concave surface for slip resistance. A standard grit surface is made through a secondary operation by bonding grit to the grating panel. If the grating is to have embedded grit, the grit shall be applied during the curing cycle before the panel ejected from the mold.

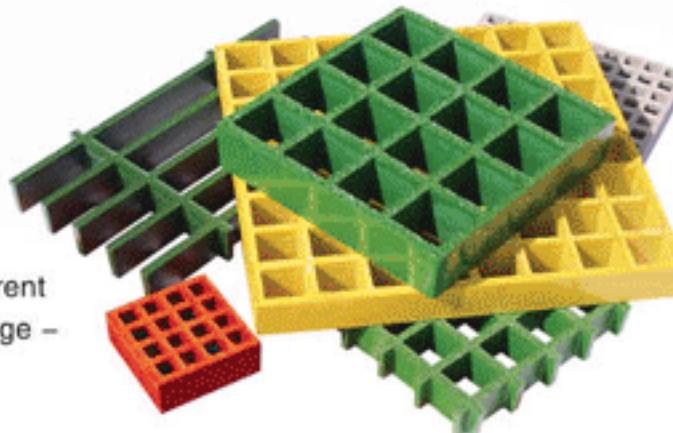




Features and Benefits

Corrosion and Chemical Resistant

Chinagrate molded grating is manufactured with continuous glass fiber strand wetted thoroughly with premium grade polyester resin. Such inherent characteristics ensure excellent corrosion resistance over a wide PH range – both acidic and caustic.



Great Tensile Strength

Three-step continuous fiberglass strand alternating layers and ultimate one-piece construction distributes loads to bi-directional bars for greater tensile strength.

Impact Resistant

Unlike metallic grating which will deform and need replacement, impact resistance of fiberglass grating allows repeated deflections of fiberglass grating without permanent deformation.

Fire Retardant

All Chinagrate resin systems have a class 1 flame spread rating of 25 or less per ASTM E – 84.

Non-conductive

Chinagrate molded grating is ideally suited in electrically hazardous locations. Its inherent property reduces the risk of electrical shock by acting as an insulator between conductive materials.

Slip Resistant

Chinagrate has three types of surface systems to offer maximum slip resistance for most application. The build-in concave surface offer adequate protection, and secondary silica grit or integral silica grit surface will provide superior protection and last longer due to wear and tear.

Non-magnetic

Chinagrate can be used in sensitive applications where the inherent magnetic properties of metallic grating would prove lethal.

Non-sparking

Chinagrate is ideally suited for many applications where sparks can trigger explosion or fire due to build-up of combustible gases.

Beautiful and Easy Maintenance

Maintenance freedom from painting and/or coating is achieved, not only by the inherent corrosion/rust resistance, but also by the molded-in color and ultraviolet resistance character.

Easy Installation and Fabrication

Chinagrate molded grating weights about one-fourth of steel grating. During installation or fabrication, a full panel can be easily lifted or moved by two persons, and cut with eased using regular saw without expensive tools or industrial-grade equipments.

RESIN SYSTEMS

Chinagrate offers its molded grating lines in a choice of five resin systems, assuring a resin system suited to the unique requirements of each custom application.

RESIN CODE	DESCRIPTION	RESIN BASE	CORROSION RESISTENCE	FLAME SPREAD RATING
VE	CHEMICAL PROOF FIRE RETARDANT	VINYL ESTER	EXCELLENT	CLASS 1 25 OR LESS
XVE	CHEMICAL PROOF EXTRA FIRE RETARDANT	VINYL ESTER	EXCELLENT	CLASS 1 10 OR LESS
IF	INDUSTRIAL GRADE FIRE RETARDANT	ISOPHTHALIC	VERY GOOD	CLASS 1 25 OR LESS
FF	FOOD GRADE FIRE RETARDANT	ISOPHTHALIC	VERY GOOD	CLASS 1 25 OR LESS
OR	ARCHITECTURAL GRADE FIRE RETARDANT	ORTHOPHTHALIC	GOOD	CLASS 1 25 OR LESS

VE is a VINYL ESTER system specifically engineered to provide premium service in highly corrosive environments. It utilizes an advanced resin system which delivers outstanding resistance to a wide range of harsh corrosive environments ranging from acidic to caustic, plus a high degree of solvent resistance. It has a Class 1 flame spread rating of 25 or less according to the ASTM E-84 Tunnel Test Method.

XVE has all characteristics of VE, and offers a flame spread of 10 or less on ASTM E-84 Tunnel Test.

IF is a premium corrosion resistant ISOPHTHALIC resin system selected for outstanding acid resistance. It has moderate resistance to caustic and solvent environments. It has a Class 1 ASTM E-84 Tunnel Test flame spread rating of 25 or less. It's more economical than types VE and XVE, and more corrosion-resistant than OR. So far, it's our most popular resin system.

FF is an ISOPHTHALIC resin system designed to meet corrosive conditions commonly found in meat production, food processing, bottling and brewing applications. It has a flame spread rating of 25 or less. We can also offer non-fire retardant food resin.

OR is an ORTHOPHTHALIC resin system designed for mildly corrosive environments. Best suited to replace metal gratings that require maintenance to keep up an aesthetically pleasing appearance. It has a Class 1 ASTM E-84 Tunnel Test flame spread rating of 25 or less for indoor use. It is more economical than type IF or VE.

PANEL SELECTION (IMPERIAL SIZES)

To satisfy the structural requirements of a wide range of applications, Chinagrate offers a complete portfolio of different panel sizes and surface types. Our portfolio provides maximum utilization options that usually result in lower total installation cost.

Quick Reference

A - 1"x4" (25x100mm)	B - 1.5"x1.5" (38x38mm)	C - 1.5"x6" (38x152mm)	D - 2"x2" (50x50mm)	MA - Mini Mesh
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SQUARE MESH

PRODUCT TYPE	THICKNESS	MESH	SIZES				
			3' x 10'	4' x 8'	4' x 12'	5' x 10'	5' x 12'
IM50	1/2"	1.5" x 1.5"	V	V	V	V	V
IM50D	1/2"	2" x 2"	V	V	V		
IM75	3/4"	1.5" x 1.5"	V	V	V	V	V
IM75D	3/4"	2" x 2"	V	V	V		
IM100*	1"	1.5" x 1.5"	V	V	V	V	V
IM100D*	1"	2" x 2"	V	V	V		
IM120*	1.20"	1.5" x 1.5"	V	V	V	V	V
IM125*	1.25"	1.5" x 1.5"	V	V	V	V	V
IM125D	1.25"	2" x 2"	V	V	V		
IM150*	1.5"	1.5" x 1.5"	V	V	V	V	V
IM150D	1.5"	2" x 2"	V	V	V		
IM200D*	2"	2" x 2"	V	V	V		

RECTANGULAR MESH

PRODUCT TYPE	THICKNESS	MESH	SIZES		
			3' x 10'	4' x 8'	4' x 12'
IM50A	1/2"	1" x 4"	V	V	V
IM50C	1/2"	1.5" x 6"	V	V	V
IM75A	3/4"	1" x 4"	V	V	V
IM75C*	3/4"	1.5" x 6"	V	V	V
IM100A	1"	1" x 4"	V	V	V
IM100C	1"	1.5" x 6"	V	V	V
IM125C*	1.25"	1.5" x 6"	V	V	V
IM150C*	1.5"	1.5" x 6"	V	V	V
IM150CHD	1.5" HD (Heavy Duty)	1.5" x 6"	V	V	V

MINI MESH

PRODUCT TYPE	THICKNESS	MESH (Top)	MESH (Bottom)	SIZES		
				3' x 10'	4' x 8'	4' x 12'
IM125MA*	1.25"	3/4" x 3/4"	1.5" x 1.5"	V	V	V
IM150MA*	1.5"	3/4" x 3/4"	1.5" x 1.5"	V	V	V
IM200MA*	2"	1" x 1"	2" x 2"	V	V	V

V – Available with bars on all four sides

U – Available with fingers on one or two sides

* – Details in following data sheet.



PANEL SELECTION (METRIC SIZES)

Quick Reference

A – 1"x4" (25x100mm)	B – 1.5"x1.5" (38x38mm)	C – 1.5"x6" (38x152mm)	D – 2"x2" (50x50mm)	MA – Mini Mesh
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SQUARE MESH

PRODUCT TYPE	THICKNESS mm(in)	MESH mm(in)	SIZES(mm)							
			905x 3050	1220x 2440	1220x 3660	1525x 3050	1525x 3660	1000x 2000	1000x 3000	1000x 4000
			3'x10'	4'x8'	4'x12'	5'x10'	5'x12'	1mx2m	1mx3m	1mx4m
MM13	13(1/2")	38x38(1.5"x1.5")	V	V	V	V	V	V	V	V
MM13D	13(1/2")	50x50(2"x2")	V	V	V			U	U	
MM19E	19(3/4")	38x38(1.5"x1.5")	V	V	V	V	V	V	V	V
MM19D	19(3/4")	50x50(2"x2")	V	V	V			U	U	
MM25*	25(1")	38x38(1.5"x1.5")	V	V	V	V	V	V	V	V
MM25D*	25(1")	50x50(2"x2")	V	V	V			U	U	
MM30*	30(1.20")	38x38(1.5"x1.5")	V	V	V	V	V	V	V	V
MM32*	32(1.25")	38x38(1.5"x1.5")	V	V	V	V	V	V	V	V
MM32D	32(1.25")	50x50(2"x2")	V	V	V			U	U	
MM38*	38(1.5")	38x38(1.5"x1.5")	V	V	V	V	V	V	V	V
MM38D	38(1.5")	50x50(2"x2")	V	V	V			U	U	
MM50D*	50(2")	50x50(2"x2")	V	V	V			U	U	

RECTANGULAR MESH

PRODUCT TYPE	THICKNESS mm(in)	MESH mm(in)	SIZES(mm)				
			905x 3050	1220x 2440	1220x 3660	1000x 2000	1000x 3000
			3'x10'	4'x8'	4'x12'	1mx2m	1mx3m
MM13A	13(1/2")	25x100(1" x 4")	V	V	V	U	U
MM13C	13(1/2")	38x152(1.5" x 6")	V	V	V	U	U
MM19A	19(3/4")	25x100(1" x 4")	V	V	V	U	U
MM19C	19(3/4")	38x152(1.5" x 6")	V	V	V	U	U
MM25A*	25(1")	25x100(1" x 4")	V	V	V	U	U
MM25C	25(1")	38x152(1.5" x 6")	V	V	V	U	U
MM32C	32(1.25")	38x152(1.5" x 6")	V	V	V	U	U
MM38C*	38(1.5")	38x152(1.5" x 6")	V	V	V	U	U
MM38CHD*	38(1.5") HD(Heavy Duty)	38x152(1.5" x 6")	V	V	V	U	U

MINI MESH

PRODUCT TYPE	THICKNESS mm(in)	MESH (Top) mm(in)	MESH (Bottom) mm(in)	SIZES(mm)				
				905x 3050	1220x 2440	1220x 3660	1000x 2000	1000x 3000
				3'x10'	4'x8'	4'x12'	1mx2m	1mx3m
IM32A*	32(1.25")	19X19(3/4"x3/4")	38X38(1.5" x 1.5")	V	V	V	U	U
IM38A*	38(1.5")	19X19(3/4"x3/4")	38x38(1.5" x 1.5")	V	V	V	U	U
IM50A*	50(2")	25X25(1"x1")	50x50(2" x 2")	V	V	V	U	U

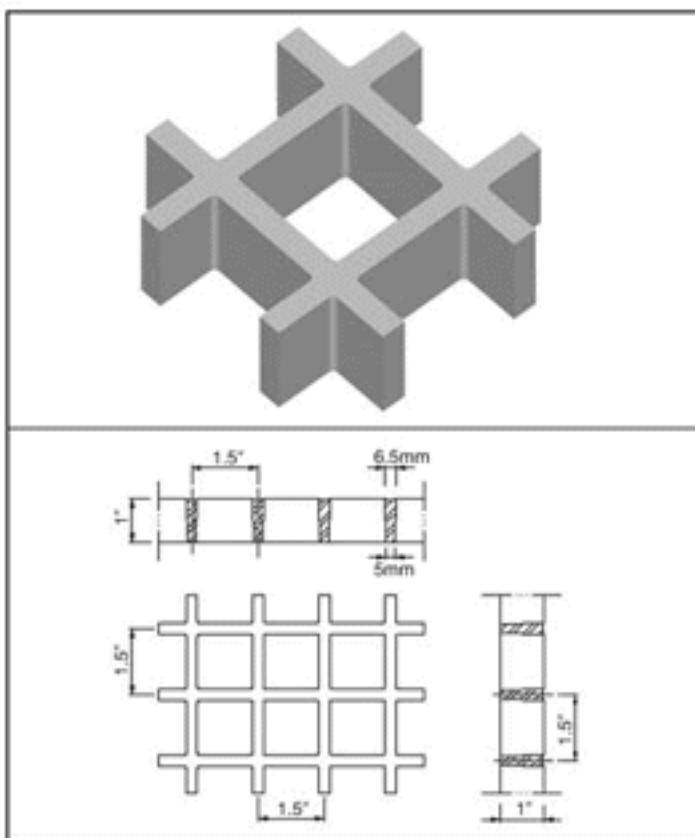
V – Available with bars on all four sides.

U – Available with fingers on one or two sides.

* – Details in following data sheet.

Pandagrate® Molded Grating Type IM100 1" Thick 1.5" x 1.5" Square Mesh

熊猫牌模压格栅IM100 系列-1" 厚 1.5" x 1.5" 正方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	8
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.26" / 0.2"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.26" / 0.2"
Cross Bar Center-to-Center (交叉格径中心距)	1.5"
Open Area (空间率)	68%
Approx. Weight (磅/平方英尺)	2.5LBS/FT ²

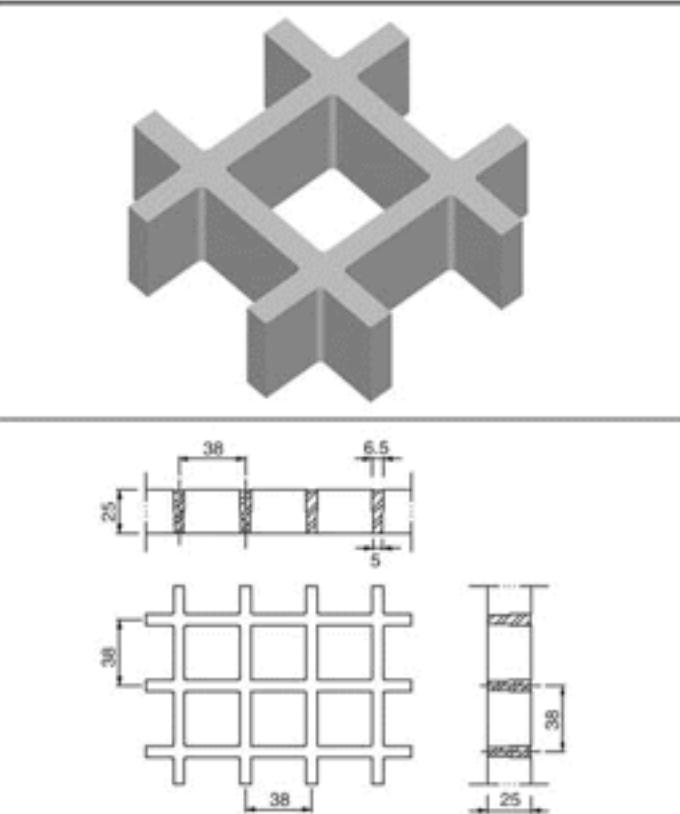
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.004	0.009	0.013	0.018	0.026	0.037	0.051	0.073	0.089	0.1	1350	6750
	△C	0.008	0.015	0.021	0.026	0.042	0.054	0.083	0.106	0.138	0.165	670	3350
18	△U	0.022	0.042	0.063	0.083	0.124	0.165	0.243	0.325	0.406	0.485	650	3250
	△C	0.023	0.045	0.067	0.089	0.132	0.178	0.26	0.355	0.437	0.518	498	2490
24	△U	0.063	0.127	0.193	0.256	0.386	0.511	0.77				377	1885
	△C	0.051	0.101	0.153	0.203	0.307	0.411	0.612				377	1885
30	△U	0.154	0.308	0.463	0.618							235	1175
	△C	0.098	0.196	0.296	0.394	0.595						297	1485
36	△U	0.312	0.629									158	790
	△C	0.167	0.337	0.501	0.668							237	1185



Pandagrate® Molded Grating Type MM25 25mm Thick 38mmx38mm Square Mesh

熊猫牌模压格栅MM25系列—25mm厚38mmx 38mm正方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	27
Load Bar Thickness - Top/Bottom (承压格径厚度)	6.5mm/5mm
Load Bar Center-to-Center (承压格径中心距)	38mm
Cross Bar Thickness (交叉承压格径厚度)	6.5mm/ 5mm
Cross Bar Center-to-Center (交叉格径中心距)	38mm
Open Area (空间率)	68%
Approx. Weight (公斤/平方米)	12.2 kg/m ²

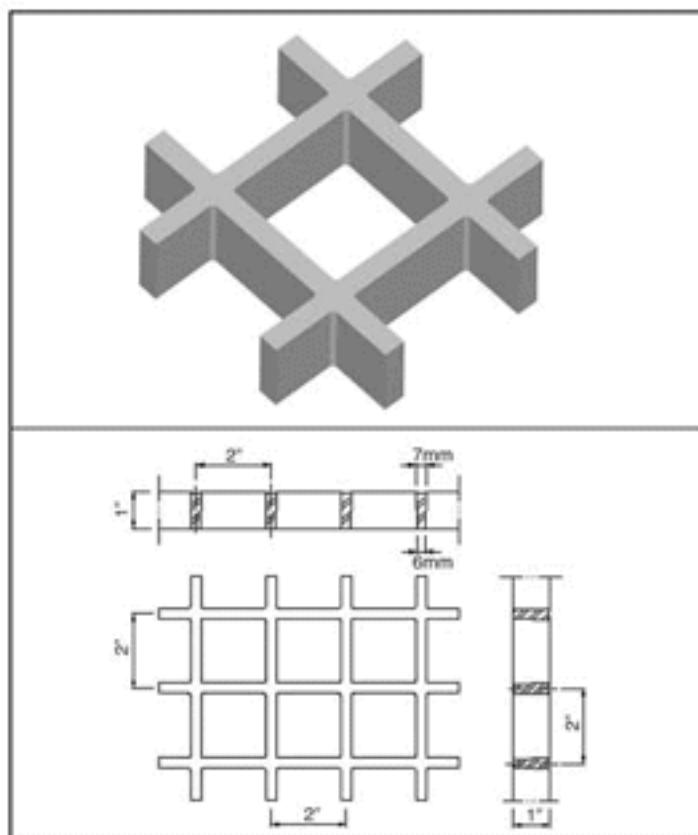
Load and Deflection Table(in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.32	0.55	0.87	1.12	1.67	2.23	2.79	3.35	4.46	5.58	6.69	8.93	10.04	11.15	47	236
	△C	1.22	2.05	3.27	4.12	6.17	8.23	10.29	12.35	16.46						8	40
600	△U	1.28	2.15	3.43	4.32	6.47	8.63	10.79	12.95	17.26						22	111
	△C	3.5	5.85	9.35	11.72	17.57										6	31
800	△U	4.15	6.94	11.09	13.88											11	56
	△C	8.3	13.85													5	26



Pandagrate® Molded Grating Type IM100D 1" Thick 2" x 2" Square Mesh

熊猫牌模压格栅IM100D 系列-1" 厚 2" x 2" 正方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	
6	
Load Bar Thickness - Top/Bottom (承压格径厚度)	
0.28" x 0.23"	
Load Bar Center-to-Center (承压格径中心距)	
2"	
Cross Bar Thickness (交叉承压格径厚度)	
0.28" x 0.23"	
Cross Bar Center-to-Center (交叉格径中心距)	
2"	
Open Area (空间率)	
73%	
Approx. Weight (磅/平方英尺)	
2.11LBS/FT ²	

Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

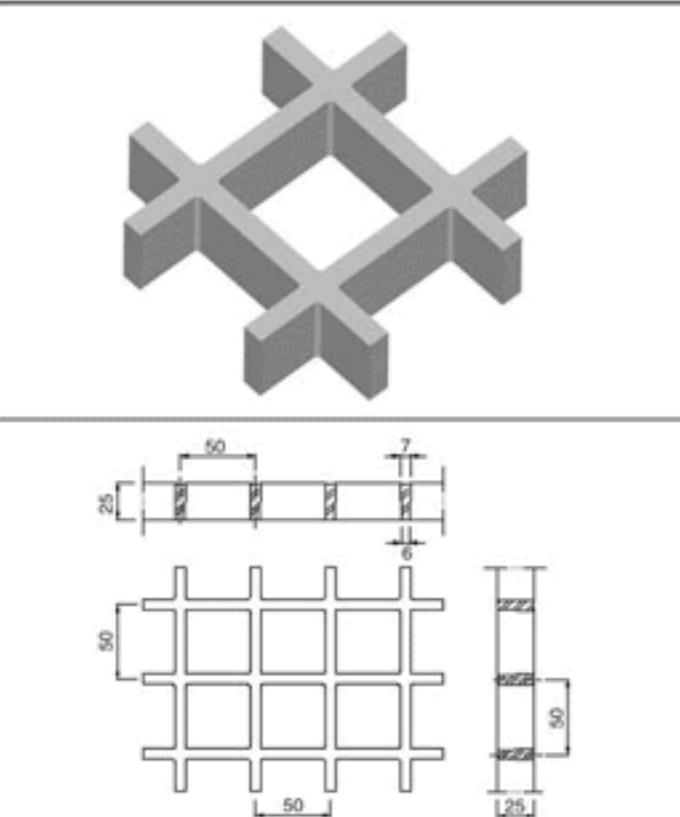
SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.004	0.010	0.014	0.020	0.029	0.041	0.056	0.080	0.098	0.110	1215	6075
	△C	0.009	0.017	0.023	0.029	0.046	0.059	0.091	0.117	0.152	0.182	603	3015
18	△U	0.024	0.046	0.069	0.091	0.136	0.182	0.267	0.358	0.447	0.534	585	2925
	△C	0.025	0.050	0.074	0.098	0.145	0.196	0.286	0.391	0.481	0.570	448	2241
24	△U	0.069	0.140	0.212	0.282	0.425	0.562	0.847				339	1697
	△C	0.056	0.111	0.168	0.223	0.338	0.452	0.673				339	1697
30	△U	0.169	0.339	0.509	0.680							212	1058
	△C	0.108	0.216	0.326	0.433							267	1337
36	△U	0.343	0.692									142	711
	△C	0.184	0.371	0.551	0.735							213	1067



CHINAGRATE 中格 熊猫牌 模压格栅

Pandagrate® Molded Grating Type MM25D 25mm Thick 50mmx50mm Square Mesh

熊猫牌模压格栅MM25D系列-25mm厚50mmx50mm正方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	20
Load Bar Thickness - Top/Bottom (承压格径厚度)	7mm/6mm
Load Bar Center-to-Center (承压格径中心距)	50mm
Cross Bar Thickness (交叉承压格径厚度)	7mm/6mm
Cross Bar Center-to-Center (交叉格径中心距)	50mm
Open Area (空间率)	73%
Approx. Weight (公斤/平方米)	10.3 kg/m ²

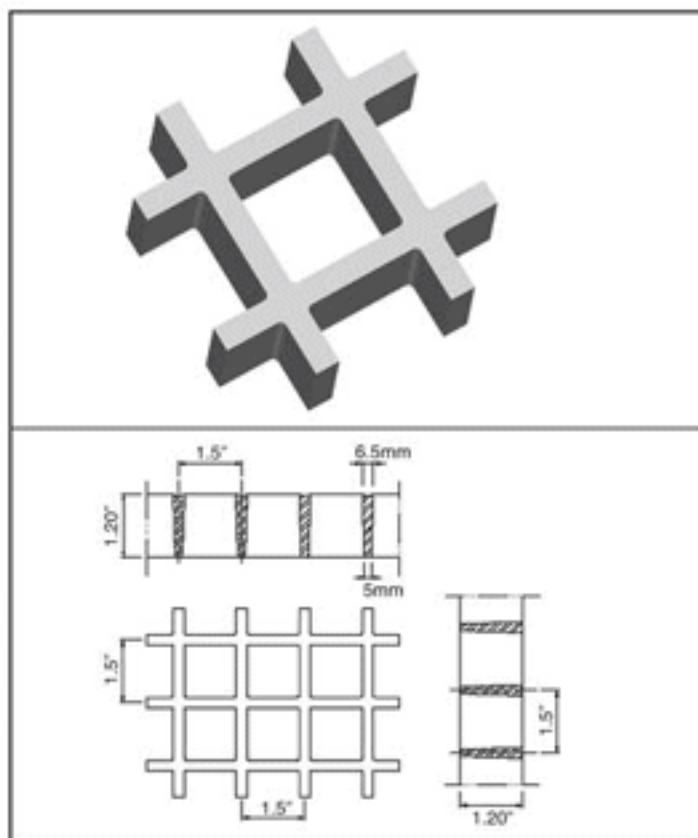
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.35	0.61	0.96	1.23	1.84	2.45	3.07	3.69	4.91	6.14	7.36	9.82	11.04	12.27	42.73	214.55
	△C	1.34	2.26	3.60	4.53	6.79	9.05	11.32	13.59	18.11						7.27	36.36
600	△U	1.41	2.37	3.77	4.75	7.12	9.49	11.87	14.25	18.99						20.00	100.91
	△C	3.85	6.44	10.29	12.89	19.33										5.45	28.18
800	△U	4.57	7.63	12.20	15.27											10.00	50.91
	△C	9.13	15.24													4.55	23.64



Pandagrate® Molded Grating Type IM120 1.20" Thick 1.5" x 1.5" Square Mesh

熊猫牌模压格栅IM120系列-1.20" 厚 1.5" x 1.5" 正方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	8
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.26 "x 0.2"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.26 "x 0.2"
Cross Bar Center-to-Center (交叉格径中心距)	1.5"
Open Area (空间率)	68%
Approx. Weight (磅/平方英尺)	2.9 LBS/FT ²

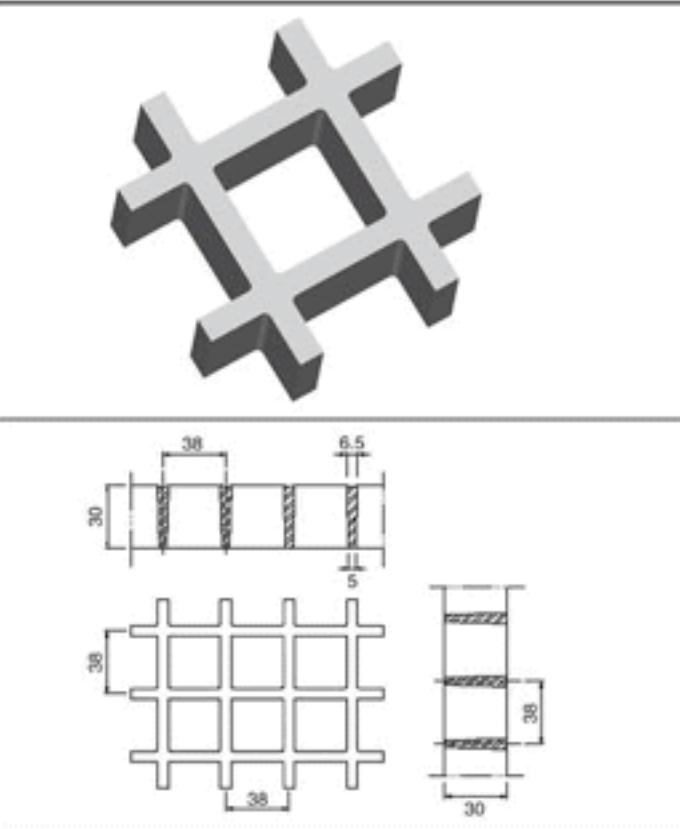
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.003	0.0066	0.0096	0.0132	0.0192	0.027	0.0372	0.0528	0.0654	0.0738	1334	6670
	△C	0.006	0.0114	0.0162	0.021	0.0318	0.0426	0.0636	0.0828	0.1062	0.1248	1062	5310
18	△U	0.0156	0.0306	0.0456	0.06	0.0894	0.1182	0.1752	0.2328	0.2934	0.348	895	4476
	△C	0.0162	0.033	0.0486	0.0648	0.0954	0.129	0.1878	0.2556	0.3168	0.3738	742	3708
24	△U	0.0444	0.0894	0.1356	0.1794	39.2316	0.3564	0.537	0.0978	0.1266	0.147	533	2666
	△C	0.0354	0.0702	0.1056	0.1404	0.2124	0.2838	0.4242	0.0786	0.0948	0.1134	533	2666
30	△U	0.1056	0.2112	0.3168	0.4242	0.0768	0.1098	0.1572	0.2178	0.2634	0.3132	349	1744
	△C	0.0672	0.1338	0.2028	0.2712	0.4086	0.0702	0.1044	0.1386	0.1746	0.2076	436	2178
36	△U	0.213	0.4272	0.0798	0.1062	0.1596	0.2124	0.318	0.4242			246	1232
	△C	0.1152	0.2316	0.3432	0.4578	0.0846	0.1134	0.1692	0.225	0.2826	0.3372	366	1828



Pandagrate® Molded Grating Type MM30 30mm Thick 38mmx38mm Square Mesh

熊猫牌模压格栅MM30系列—30mm厚38mmx38mm正方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	
27	
Load Bar Thickness - Top/Bottom (承压格径厚度)	
6.5mm x 5mm	
Load Bar Center-to-Center (承压格径中心距)	
38mm	
Cross Bar Thickness (交叉承压格径厚度)	
6.5mm x 5mm	
Cross Bar Center-to-Center (交叉格径中心距)	
38mm	
Open Area (空间率)	
68%	
Approx. Weight (公斤/平方米)	
13.65 kg/m ²	

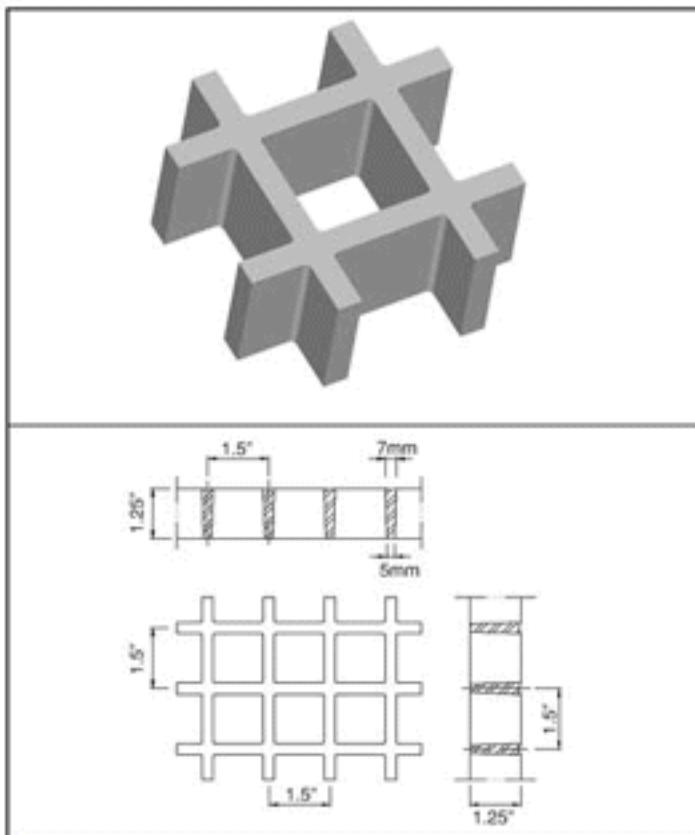
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.26	0.46	0.73	0.94	1.40	1.88	2.35	2.82	3.75	4.70	5.63	7.52	8.45	9.38	47.92	240.83
	△C	1.10	1.86	2.96	3.74	5.60	7.48	9.35	11.22	14.95						10.83	55.00
600	△U	1.10	1.85	2.95	3.72	5.57	7.44	9.29	11.16	14.87						28.33	142.92
	△C	3.02	5.06	8.09	10.14	15.20										8.33	42.92
800	△U	3.50	5.87	9.37	11.74											15.83	80.42
	△C	6.95	11.60													6.67	34.58



Pandagrate® Molded Grating Type IM125 1.25" Thick 1.5" x 1.5" Square Mesh

熊猫牌模压格栅IM125系列-1.25" 厚 1.5" x 1.5" 正方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	8
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.28" x 0.2"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.28" x 0.2"
Cross Bar Center-to-Center (交叉格径中心距)	1.5"
Open Area (空间率)	67%
Approx. Weight (磅/平方英尺)	3 LBS/FT ²

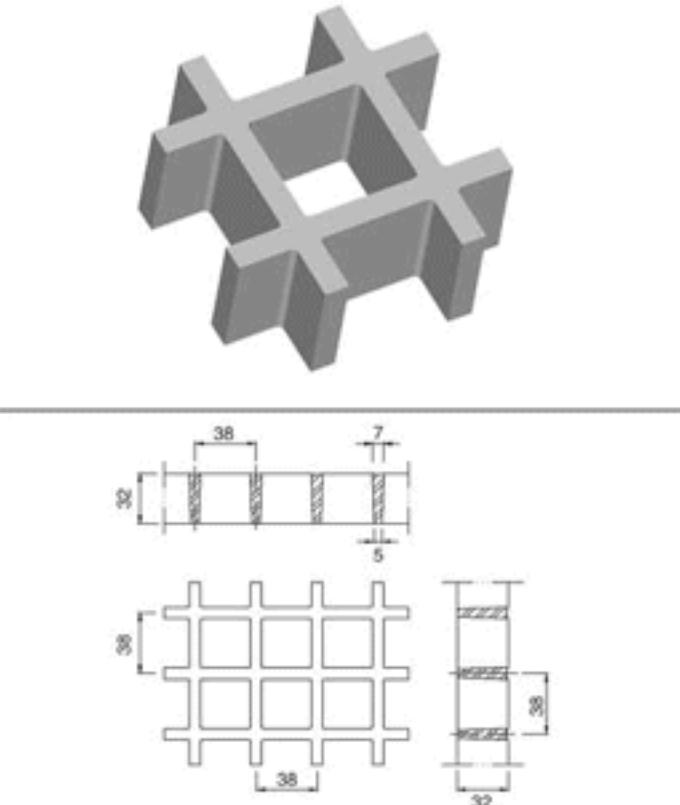
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.003	0.008	0.010	0.015	0.021	0.029	0.040	0.057	0.070	0.078	1573	7866
	△C	0.006	0.012	0.016	0.021	0.032	0.042	0.062	0.082	0.104	0.123	1021	5106
18	△U	0.016	0.031	0.046	0.060	0.091	0.120	0.177	0.235	0.296	0.352	929	4646
	△C	0.017	0.033	0.050	0.065	0.097	0.130	0.189	0.256	0.316	0.376	703	3514
24	△U	0.046	0.091	0.139	0.185	0.276	0.365	0.550				530	2650
	△C	0.036	0.072	0.109	0.144	0.217	0.289	0.432				530	2650
30	△U	0.108	0.217	0.326	0.435							334	1670
	△C	0.069	0.138	0.208	0.278	0.419						420	2098
36	△U	0.219	0.442									228	1141
	△C	0.117	0.235	0.351	0.468							346	1732



Pandagrate® Molded Grating Type MM32 32mm Thick 38mmx38mm Square Mesh

熊猫牌模压格栅MM32系列-32mm厚38mmx38mm正方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	27
Load Bar Thickness - Top/Bottom (承压格径厚度)	7mm/5mm
Load Bar Center-to-Center (承压格径中心距)	38mm
Cross Bar Thickness (交叉承压格径厚度)	7mm/5mm
Cross Bar Center-to-Center (交叉格径中心距)	38mm
Open Area (空间率)	67%
Approx. Weight (公斤/平方米)	14.6 kg/m ²

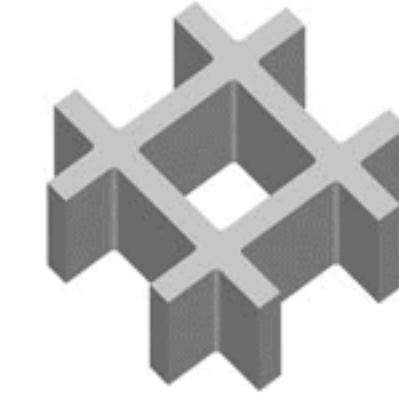
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.24	0.42	0.65	0.85	1.26	1.69	2.11	2.54	3.38	4.23	5.07	6.77	7.60	8.44	53.24	267.59
	△C	0.99	1.67	2.67	3.37	5.04	6.73	8.41	10.10	13.46						12.04	61.11
600	△U	0.99	1.67	2.66	3.35	5.02	6.70	8.36	10.04	13.38						31.48	158.80
	△C	2.72	4.56	7.28	9.13	13.68										9.26	47.69
800	△U	3.15	5.28	8.43	10.56											17.59	89.35
	△C	6.25	10.44													7.41	38.43



Pandagrate® Molded Grating Type IM150 1.5" Thick 1.5" x 1.5" Square Mesh

熊猫牌模压格栅IM150 系列-1.5" 厚 1.5" x 1.5" 正方格

		Technical Data (技术数据)									
		# of Bars Per Ft of Width (每英尺宽度格径数)									
		8									
		Load Bar Thickness - Top/Bottom (承压格径厚度)									
		0.28" x 0.2"									
		Load Bar Center-to-Center (承压格径中心距)									
		1.5"									
		Cross Bar Thickness (交叉承压格径厚度)									
		0.28" x 0.2"									
		Cross Bar Center-to-Center (交叉格径中心距)									
		1.5"									
		Open Area (空间率)									
		67%									
		Approx. Weight (磅/平方英尺)									
		3.8 LBS/FT ²									

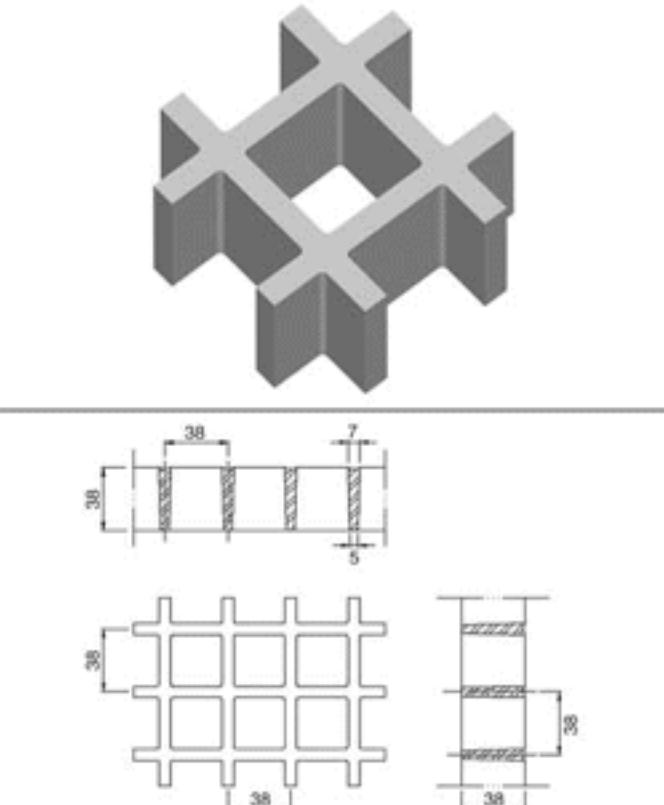
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.002	0.005	0.006	0.009	0.012	0.017	0.023	0.033	0.041	0.045	2070	10350
	△C	0.003	0.007	0.009	0.012	0.017	0.023	0.032	0.045	0.055	0.062	1550	7750
18	△U	0.008	0.015	0.022	0.029	0.044	0.057	0.085	0.111	0.142	0.166	1370	6850
	△C	0.009	0.017	0.025	0.032	0.048	0.062	0.09	0.119	0.149	0.178	1030	5150
24	△U	0.022	0.042	0.064	0.086	0.126	0.165	0.248	0.331	0.415	0.494	775	3875
	△C	0.016	0.032	0.048	0.063	0.095	0.125	0.188	0.252	0.312	0.388	775	3875
30	△U	0.046	0.093	0.14	0.188	0.283	0.377	0.565	0.751			491	2455
	△C	0.029	0.06	0.09	0.12	0.18	0.239	0.359	0.479	0.588	0.718	615	3075
36	△U	0.094	0.189	0.282	0.382	0.571	0.759					338	1690
	△C	0.049	0.099	0.149	0.199	0.299	0.399	0.588				516	2580
42	△U	0.173	0.347	0.519								248	1240
	△C	0.078	0.155	0.239	0.312	0.468	0.618					438	2190
48	△U	0.278	0.569									168	840
	△C	0.112	0.225	0.333	0.449	0.672						338	1690



Pandagrate® Molded Grating Type MM38 38mm Thick 38mmx38mm Square Mesh

熊猫牌模压格栅MM38系列-38mm厚38mmx38mm正方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	
27	
Load Bar Thickness - Top/Bottom (承压格径厚度)	
7mm/5mm	
Load Bar Center-to-Center (承压格径中心距)	
38mm	
Cross Bar Thickness (交叉承压格径厚度)	
7mm/5mm	
Cross Bar Center-to-Center (交叉格径中心距)	
38mm	
Open Area (空间率)	
67%	
Approx. Weight (公斤/平方米)	
18.6 kg/m ²	

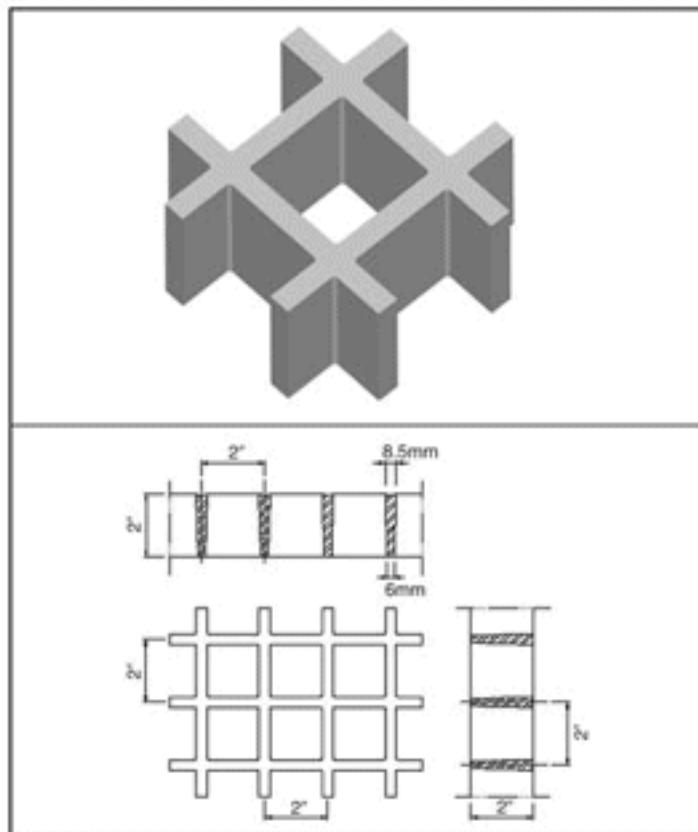
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²													MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY	
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.12	0.22	0.34	0.45	0.67	0.9	1.12	1.35	1.79	2.25	2.69	3.6	4.04	4.48	68	342
	△C	0.62	1.05	1.67	2.12	3.17	4.23	5.29	6.35	8.46	10.58	12.69	16.93	19.04		18	92
600	△U	0.55	0.94	1.49	1.88	2.82	3.77	4.7	5.65	7.52	9.42	11.29	15.07	16.94	18.81	46	232
	△C	1.54	2.59	4.13	5.18	7.77	10.37	12.95	15.55							14	72
800	△U	1.69	2.84	4.53	5.68	8.52	11.37	14.2	17.05							27	137
	△C	3.28	5.49	8.77	10.98	16.47										11	57
1000	△U	4.16	6.95	11.11	13.92											17	87
	△C	6.78	11.32	18.1												8	42
1200	△U	8.76	14.62													10	52
	△C	11.58	19.32													6	32



Pandagrate® Molded Grating Type IM200D 2" Thick 2" x 2" Square Mesh

熊猫牌模压格栅IM200D 系列-2" 厚 2" x 2" 正方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	
6	
Load Bar Thickness - Top/Bottom (承压格径厚度)	
0.33" x 0.23"	
Load Bar Center-to-Center (承压格径中心距)	
2"	
Cross Bar Thickness (交叉承压格径厚度)	
0.33 "x 0.23"	
Cross Bar Center-to-Center (交叉格径中心距)	
2"	
Open Area (空间率)	
69%	
Approx. Weight (磅/平方英尺)	
4.8 LBS/FT ²	

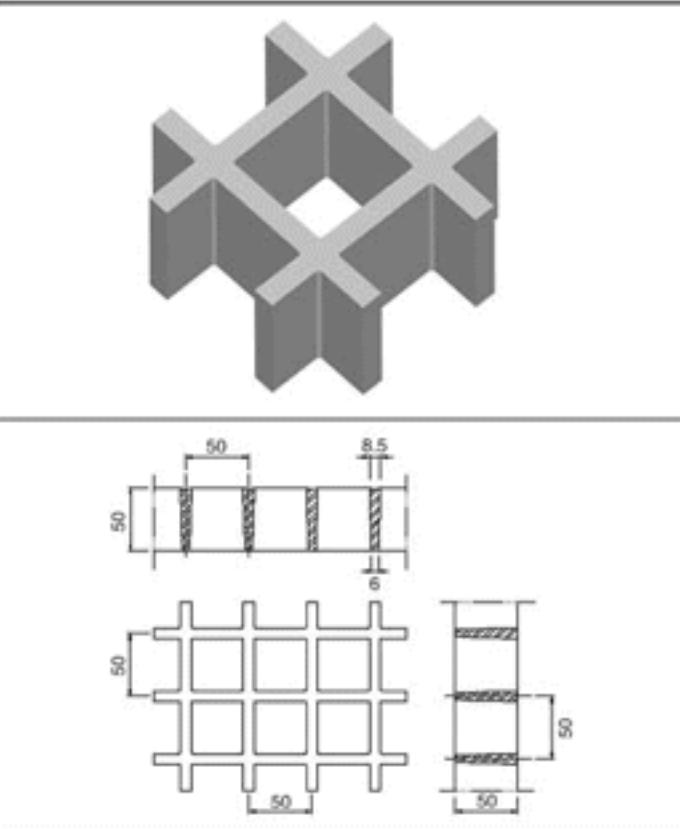
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.001	0.002	0.003	0.004	0.006	0.008	0.011	0.015	0.02	0.023	2170	10850
	△C	0.002	0.004	0.006	0.009	0.011	0.017	0.023	0.032	0.039	0.043	1650	8250
18	△U	0.004	0.009	0.013	0.017	0.025	0.032	0.049	0.063	0.083	0.095	1588	7940
	△C	0.004	0.01	0.014	0.019	0.027	0.037	0.053	0.071	0.091	0.105	1356	6780
24	△U	0.011	0.022	0.033	0.043	65	0.083	0.125	0.163	0.211	0.245	956	4780
	△C	0.008	0.016	0.023	0.031	0.047	0.062	0.095	0.131	0.158	0.189	956	4780
30	△U	0.022	0.044	0.065	0.089	0.128	0.183	0.262	0.363	0.439	0.522	637	3185
	△C	0.014	0.027	0.042	0.058	0.086	0.117	0.174	0.231	0.291	0.346	792	3960
36	△U	0.043	0.083	0.133	0.177	0.266	0.354	0.53	0.707			458	2290
	△C	0.025	0.049	0.071	0.095	0.141	0.189	0.282	0.375	0.471	0.562	677	3385
42	△U	0.08	0.163	0.245	0.328	0.489	0.653					338	1690
	△C	0.035	0.072	0.109	0.148	0.223	0.289	0.445	0.595			577	2885
48	△U	0.132	0.266	0.401	0.532							259	1295
	△C	0.049	0.106	0.157	0.211	0.312	0.422	0.626				517	2585
54	△U	0.205	0.416	0.622								200	1000
	△C	0.071	0.144	0.222	0.194	0.444	0.588					457	2285



Pandagrate® Molded Grating Type MM50D 50mm Thick 50mmx50mm Square Mesh

熊猫牌模压格栅MM50D 系列-50mm厚50mmx50mm正方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	20
Load Bar Thickness - Top/Bottom (承压格径厚度)	8.5mm/6mm
Load Bar Center-to-Center (承压格径中心距)	50mm
Cross Bar Thickness (交叉承压格径厚度)	8.5mm/6mm
Cross Bar Center-to-Center (交叉格径中心距)	50mm
Open Area (空间率)	69%
Approx. Weight (公斤/平方米)	23.4 kg/m ²

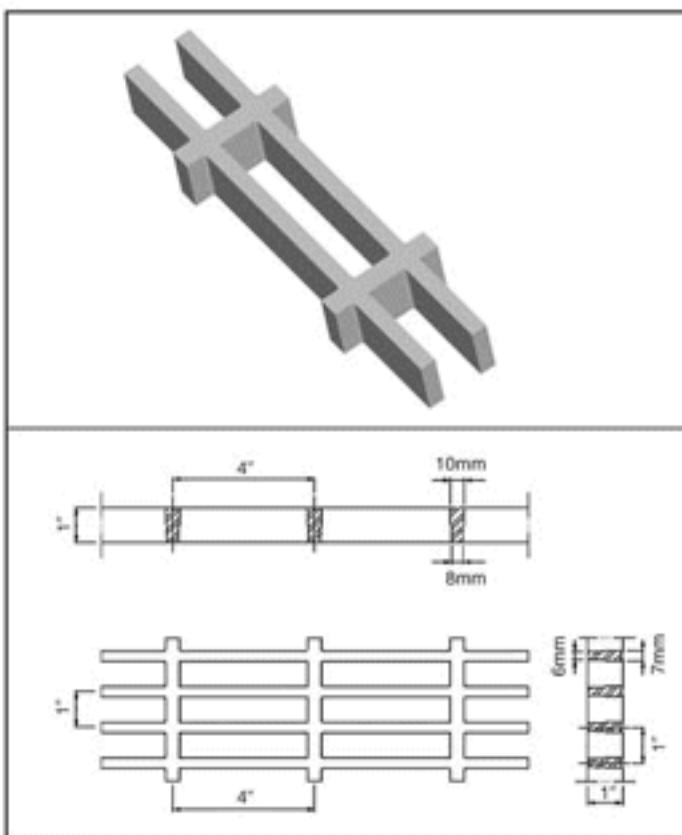
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.08	0.15	0.23	0.32	0.47	0.63	0.79	0.95	1.26	1.58	1.89	2.53	2.84	3.15	72	361
	△C	0.31	0.54	0.85	1.08	1.62	2.17	2.7	3.25	4.32	5.42	6.49	8.67	9.74	11.91	29	146
600	△U	0.28	0.49	0.77	0.98	1.47	1.97	2.45	2.95	3.92	4.92	5.89	7.87	8.84	9.81	52	259
	△C	0.88	1.49	2.37	2.98	4.47	5.97	7.45	8.95	11.92	14.92	17.89				16	78
800	△U	0.09	0.17	0.25	0.34	0.51	0.69	0.85	1.03	1.36	1.72	2.05	2.75	3.08	3.41	36	181
	△C	1.82	3.05	4.87	6.12	9.17	12.23	15.29	18.35							13	66
1000	△U	2.18	3.65	5.83	7.32	10.97	14.63	18.29								16	81
	△C	3.62	6.05	9.67	12.12	18.17										11	56
1200	△U	4.56	7.62	12.18	15.25											15	76
	△C	6.05	10.1	16.15												9	46
1400	△U	8.2	13.69													9	46
	△C	9.68	16.15													6	31



Pandagrate® Molded Grating Type IM100A 1" Thick 1" x 4" Rectangular Mesh

熊猫牌模压格栅IM100A系列 - 1" 厚 1" x 4" 长方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	12
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.39" x 0.32"
Load Bar Center-to-Center (承压格径中心距)	4"
Cross Bar Thickness (交叉承压格径厚度)	0.28" x 0.23"
Cross Bar Center-to-Center (交叉格径中心距)	1"
Open Area (空间率)	65%
Approx. Weight (磅/平方英尺)	2.7 LBS/FT ²

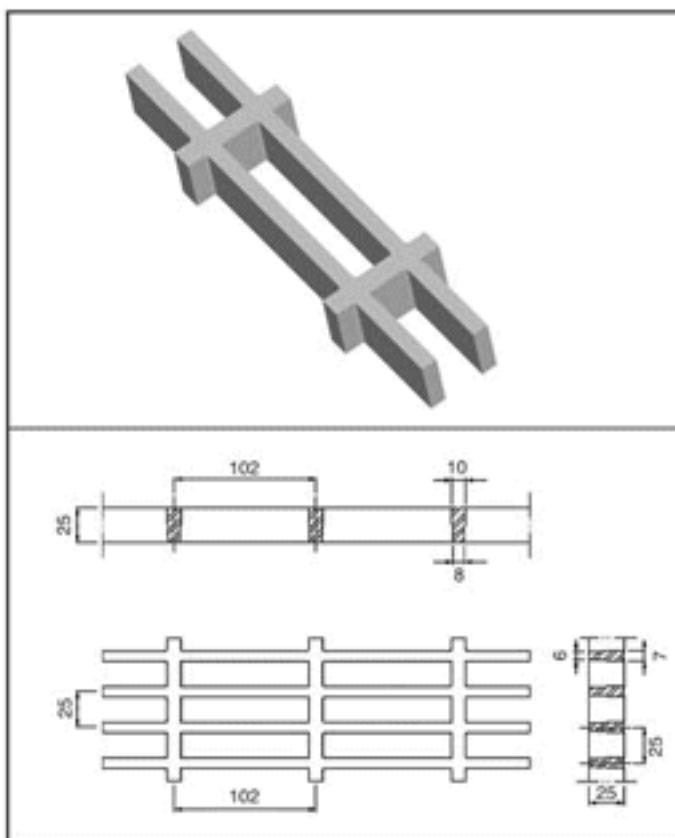
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.003	0.005	0.009	0.012	0.018	0.023	0.035	0.045	0.058	0.068	1950	9750
	△C	0.004	0.01	0.014	0.019	0.028	0.036	0.055	0.071	0.09	0.102	960	4800
18	△U	0.011	0.023	0.036	0.048	0.074	0.097	0.149	0.195	0.238	0.294	950	4750
	△C	0.012	0.025	0.037	0.052	0.075	0.105	0.156	0.207	0.258	0.31	710	3550
24	△U	0.036	0.075	0.112	0.15	0.222	0.299	0.448				550	2750
	△C	0.029	0.059	0.088	0.12	0.18	0.239	0.358	0.478			550	2750
30	△U	0.089	0.177	0.266	0.353	0.528						330	1650
	△C	0.055	0.112	0.168	0.224	0.339	0.45					410	2050
36	△U	0.175	0.352	0.528								230	1150
	△C	0.095	0.188	0.283	0.378	0.568						350	1750
42	△U	0.315	0.63									180	900
	△C	0.143	0.288	0.432	0.578							430	2150



Pandagrate® Molded Grating Type MM25A 25mm Thick 25mmx102mm Rectangular Mesh

熊猫牌模压格栅MM25A系列—25mm厚25mmx102mm长方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	
10/39	
Load Bar Thickness - Top/Bottom (承压格径厚度)	
10mm/8mm	
Load Bar Center-to-Center (承压格径中心距)	
102mm	
Cross Bar Thickness (交叉承压格径厚度)	
7mm/6mm	
Cross Bar Center-to-Center (交叉格径中心距)	
25mm	
Open Area (空间率)	
65%	
Approx. Weight (公斤/平方米)	
13.2 kg/m ²	

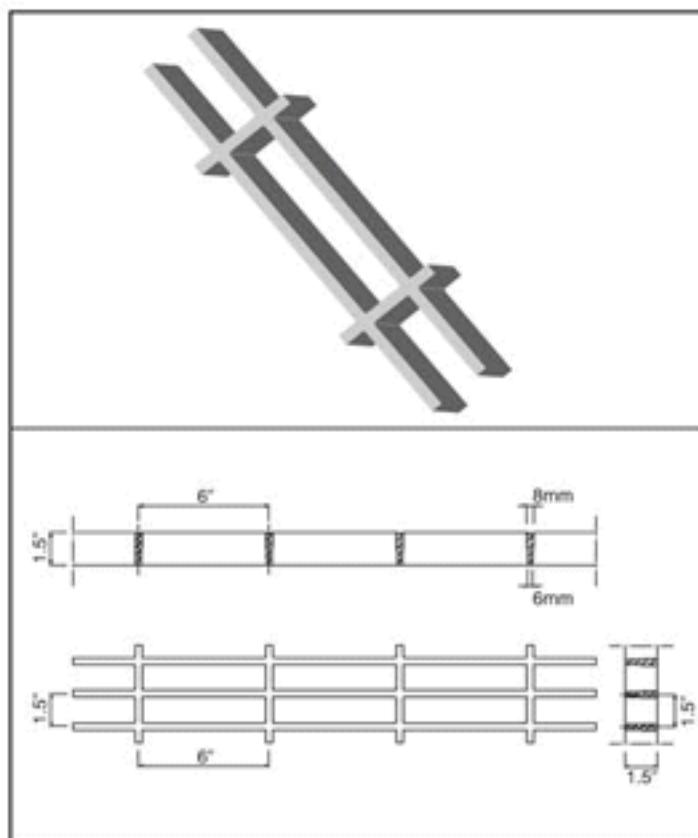
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.42	0.72	1.14	1.45	2.17	2.9	3.62	4.35	5.79	7.25	8.69	11.6	13.04	14.48	46	231
	△C	1.64	2.75	4.39	5.52	8.27	11.03	13.79	16.55	22.06						9	46
600	△U	1.72	2.89	4.61	5.78	8.67	11.57	14.45	17.35							21	106
	△C	4.6	7.69	12.29	15.38											7	36
800	△U	5.58	9.32	14.9	18.65											10	51
	△C	10.88	18.15													4	21



Pandagrate® Molded Grating Type IM150C 1.5" Thick 1.5" x 6" Rectangular Mesh

熊猫牌模压格栅IM150C系列-1.5" 厚 1.5" x 6" 长方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	8
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.32" x 0.23"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.32" x 0.23"
Cross Bar Center-to-Center (交叉格径中心距)	6"
Open Area (空间率)	74%
Approx. Weight (磅/平方英尺)	2.9 LBS/FT ²

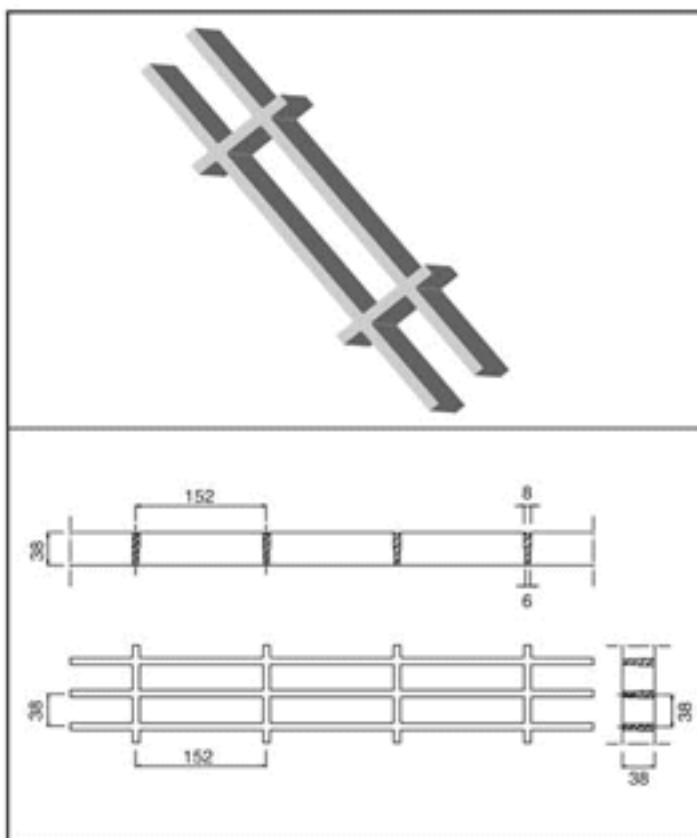
Load and Deflection Table (in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		25	50	75	100	150	200	300	500	1000	1200		
12	△U	0.002	0.006	0.007	0.010	0.013	0.019	0.025	0.036	0.045	0.050	2496	12480
	△C	0.003	0.008	0.010	0.013	0.019	0.025	0.035	0.050	0.061	0.068	1872	9360
18	△U	0.009	0.017	0.024	0.032	0.048	0.063	0.094	0.122	0.156	0.183	1656	8280
	△C	0.010	0.019	0.028	0.035	0.053	0.068	0.099	0.131	0.164	0.196	1248	6240
24	△U	0.024	0.046	0.070	0.095	0.139	0.182	0.273	0.364	0.457	0.543	1056	5280
	△C	0.018	0.035	0.053	0.069	0.105	0.138	0.207	0.277	0.343	0.427	936	4680
30	△U	0.051	0.102	0.154	0.207	0.311	0.415	0.622	0.826			595	2976
	△C	0.032	0.066	0.099	0.132	0.198	0.263	0.395	0.527	0.647	0.790	744	3720
36	△U	0.103	0.208	0.310	0.420	0.628	0.835					408	2040
	△C	0.054	0.109	0.164	0.219	0.329	0.439	0.647				624	3120
42	△U	0.190	0.382	0.571								300	1500
	△C	0.086	0.171	0.263	0.343	0.515	0.680					528	2640
48	△U	0.306	0.626									204	1020
	△C	0.123	0.248	0.366	0.494	0.739						408	2040



Pandagrate® Molded Grating Type MM38C 38mm Thick 38mmx152mm Rectangular Mesh

熊猫牌模压格栅MM38C系列-38mm厚38mmx152mm长方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	
27/6	
Load Bar Thickness - Top/Bottom (承压格径厚度)	
8mm/6mm	
Load Bar Center-to-Center (承压格径中心距)	
38mm	
Cross Bar Thickness (交叉承压格径厚度)	
8mm/6mm	
Cross Bar Center-to-Center (交叉格径中心距)	
152mm	
Open Area (空间率)	
74%	
Approx. Weight (公斤/平方米)	
14.2 kg/m ²	

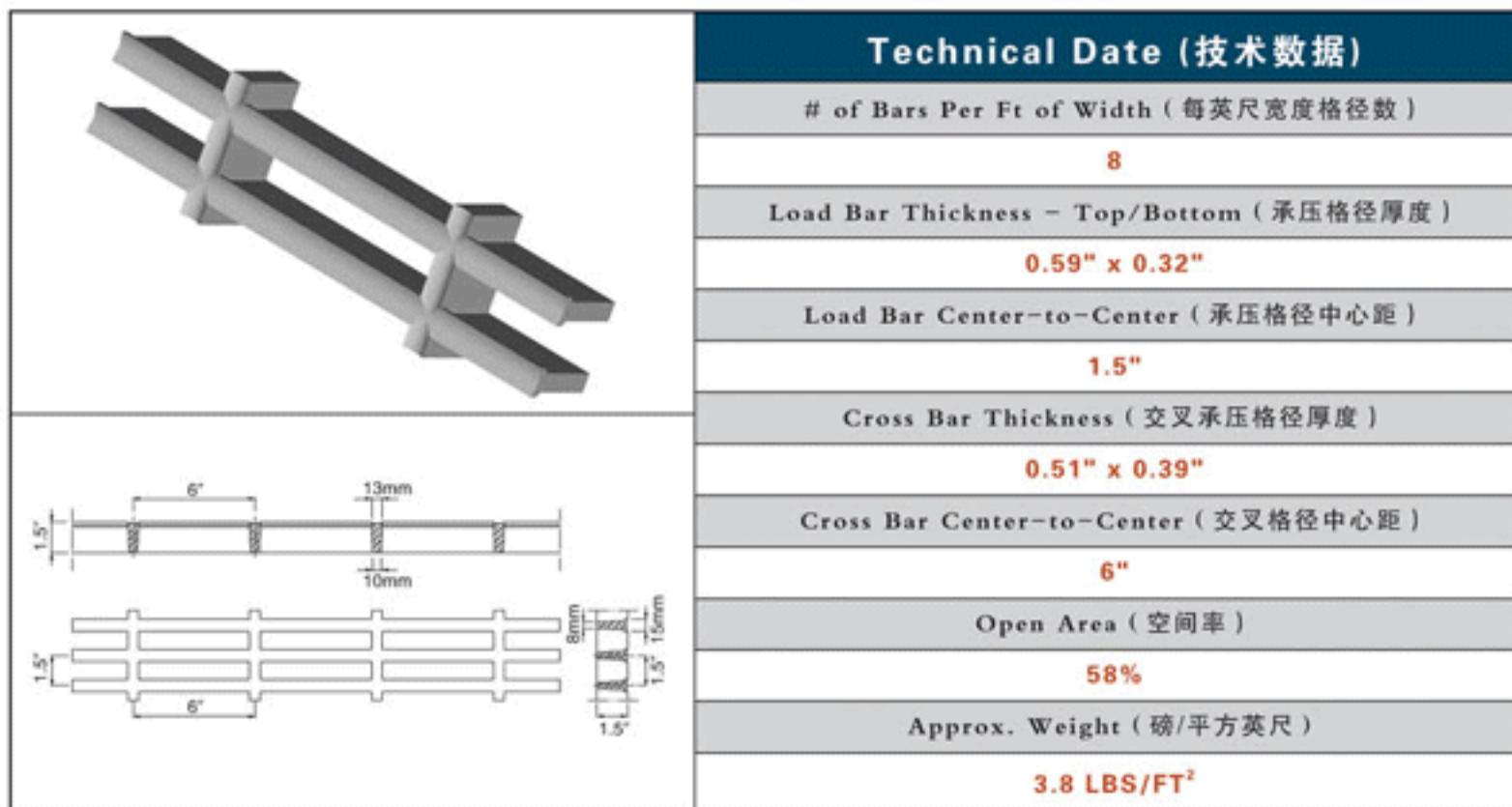
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100		
400	△U	0.132	0.242	0.374	0.495	0.737	0.99	1.232	1.485	1.969	2.475	2.959	3.96	4.444	4.928	111	555
	△C	0.682	1.155	1.837	2.332	3.487	4.653	5.819	6.985	9.306	11.638	13.959	18.623	20.944		22	110
600	△U	0.605	1.034	1.639	2.068	3.102	4.147	5.17	6.215	8.272	10.362	12.419	16.577	18.634	20.691	49	245
	△C	1.694	2.849	4.543	5.698	8.547	11.407	14.245	17.105							15	75
800	△U	1.859	3.124	4.983	6.248	9.372	12.507	15.62	18.755							25	125
	△C	3.608	6.039	9.647	12.078	18.117										9	45
1000	△U	4.576	7.645	12.221	15.312											16	80
	△C	7.458	12.452	19.91												7	35
1200	△U	9.636	16.082													9	45
	△C	12.738	21.252													5	25



Pandagrate® Molded Grating Type IM150CHD 1.5" Thick 1.5" x 6" Rectangular Mesh

熊猫牌模压格栅IM150CHD 系列-1.5" 厚 1.5" x 6" 长方格



Technical Data (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	8
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.59" x 0.32"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.51" x 0.39"
Cross Bar Center-to-Center (交叉格径中心距)	6"
Open Area (空间率)	58%
Approx. Weight (磅/平方英尺)	3.8 LBS/FT ²

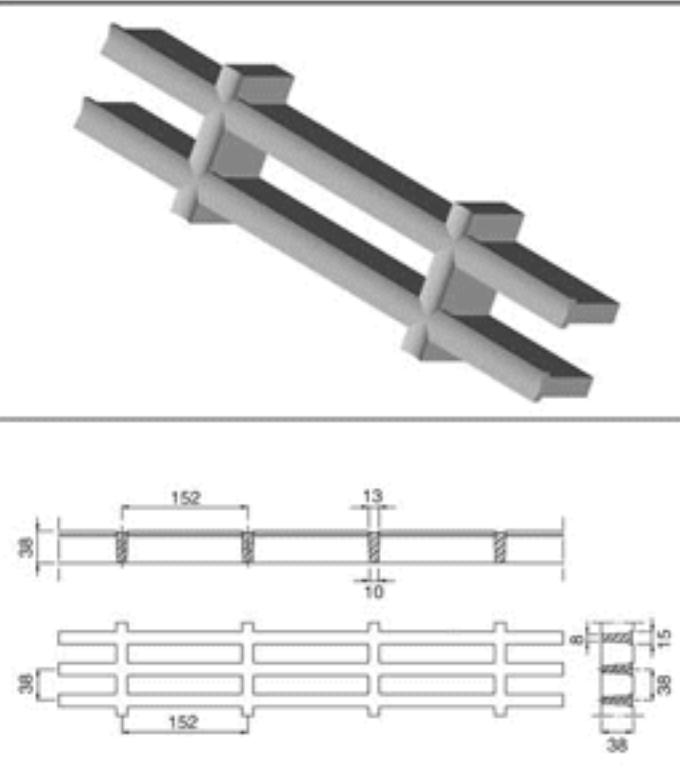
Load and Deflection Table (in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		25	50	75	100	150	200	300	500	1000	1200		
12	△U	0.002	0.004	0.005	0.007	0.010	0.014	0.018	0.026	0.033	0.036	2484	12420
	△C	0.002	0.006	0.007	0.010	0.014	0.018	0.026	0.036	0.044	0.050	1860	9300
18	△U	0.006	0.012	0.018	0.023	0.035	0.046	0.068	0.089	0.114	0.133	1644	8220
	△C	0.007	0.014	0.020	0.026	0.038	0.050	0.072	0.095	0.119	0.142	1236	6180
24	△U	0.018	0.034	0.051	0.069	0.101	0.132	0.198	0.265	0.332	0.395	930	4650
	△C	0.013	0.026	0.038	0.050	0.076	0.100	0.150	0.202	0.250	0.310	930	4650
30	△U	0.037	0.074	0.112	0.150	0.226	0.302	0.452	0.601			589	2946
	△C	0.023	0.048	0.072	0.096	0.144	0.191	0.287	0.383	0.470	0.574	738	3690
36	△U	0.075	0.151	0.226	0.306	0.457	0.607					406	2028
	△C	0.039	0.079	0.119	0.159	0.239	0.319	0.470				619	3096
42	△U	0.138	0.278	0.415								298	1488
	△C	0.062	0.124	0.191	0.250	0.374	0.494					526	2628
48	△U	0.222	0.455									202	1008
	△C	0.090	0.180	0.266	0.359	0.538						406	2028



Pandagrate® Molded Grating Type MM38CHD 38mm Thick 38mmx152mm Rectangular Mesh

熊猫牌模压格栅MM38CHD系列-38mm厚38mmx152mm长方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	27/6
Load Bar Thickness - Top/Bottom (承压格径厚度)	15mm/8mm
Load Bar Center-to-Center (承压格径中心距)	38mm
Cross Bar Thickness (交叉承压格径厚度)	13mm/10mm
Cross Bar Center-to-Center (交叉格径中心距)	152mm
Open Area (空间率)	58%
Approx. Weight (公斤/平方米)	18.5 kg/m ²

Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²													MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY	
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.096	0.176	0.272	0.36	0.536	0.72	0.896	1.08	1.432	1.8	2.152	2.88	3.232	3.584	85	427.5
	△C	0.496	0.84	1.336	1.696	2.536	3.384	4.232	5.08	6.768	8.464	10.152	13.544	15.232		22.5	115
600	△U	0.44	0.752	1.192	1.504	2.256	3.016	3.76	4.52	6.016	7.536	9.032	12.056	13.552	15.048	57.5	290
	△C	1.232	2.072	3.304	4.144	6.216	8.296	10.36	12.44							17.5	90
800	△U	1.352	2.272	3.624	4.544	6.816	9.096	11.36	13.64							33.75	171.25
	△C	2.624	4.392	7.016	8.784	13.176										13.75	71.25
1000	△U	3.328	5.56	8.888	11.136											21.25	108.75
	△C	5.424	9.056	14.48												10	52.5
1200	△U	7.008	11.696													12.5	65
	△C	9.264	15.456													7.5	40



Pandagrate® Molded Grating Type IM125MA 1.25" Thick 0.75" x 0.75" Mini Mesh

熊猫牌模压格栅IM125MA系列-1.25" 厚 0.75" x 0.75" 小方格

The table provides detailed technical specifications for the Pandagrate IM125MA Molded Grating:

Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	16
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.28" x 0.2"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.28" x 0.2"
Cross Bar Center-to-Center (交叉格径中心距)	1.5"
Open Area (空间率)	42%
Approx. Weight (磅/平方英尺)	3.4 LBS/FT ²

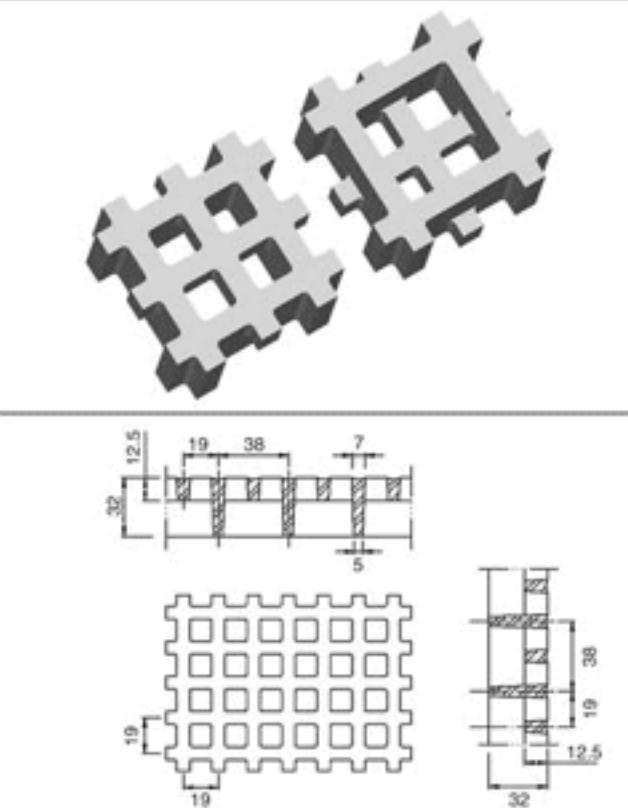
Load and Deflection Table(in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.003	0.006	0.008	0.012	0.016	0.023	0.032	0.046	0.056	0.063	1888	9439
	△C	0.005	0.010	0.013	0.016	0.025	0.033	0.050	0.065	0.083	0.098	1225	6127
18	△U	0.013	0.025	0.037	0.048	0.073	0.096	0.142	0.188	0.237	0.281	1115	5575
	△C	0.014	0.027	0.040	0.052	0.078	0.104	0.151	0.205	0.253	0.301	843	4217
24	△U	0.037	0.073	0.111	0.148	0.221	0.292	0.440				636	3180
	△C	0.029	0.057	0.087	0.115	0.174	0.232	0.346				636	3180
30	△U	0.086	0.173	0.260	0.348							401	2004
	△C	0.055	0.111	0.167	0.222	0.335						503	2517
36	△U	0.175	0.353									274	1369
	△C	0.093	0.188	0.281	0.375							416	2078



Pandagrate® Molded Grating Type MM32MA 32mm Thick 19mmx19mm Mini Mesh

熊猫牌模压格栅MM32MA系列-32mm厚19mmx19mm小方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	53
Load Bar Thickness - Top/Bottom (承压格径厚度)	7mm/5mm
Load Bar Center-to-Center (承压格径中心距)	38mm
Cross Bar Thickness (交叉承压格径厚度)	7mm/5mm
Cross Bar Center-to-Center (交叉格径中心距)	38mm
Open Area (空间率)	42%
Approx. Weight (公斤/平方米)	16.6 kg/m ²

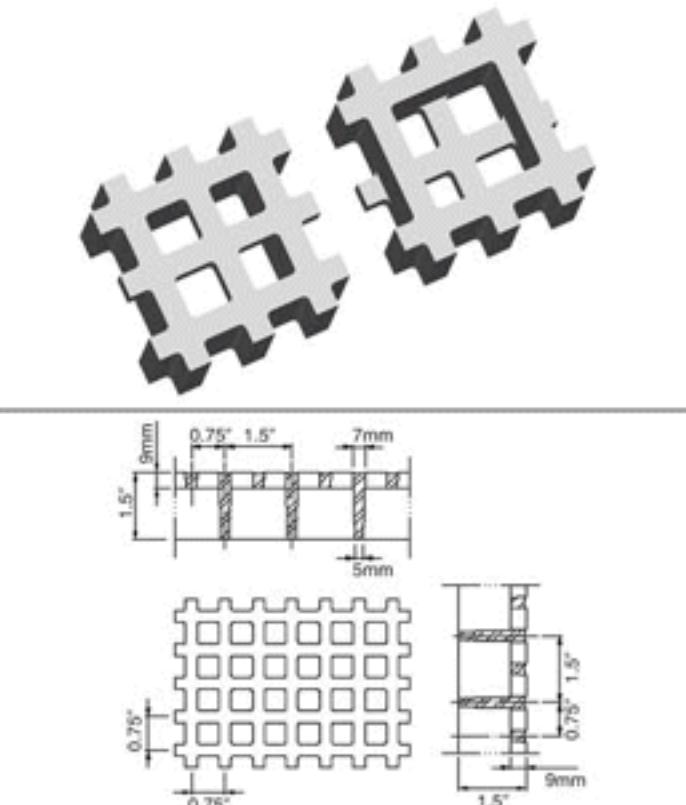
Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²													MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY	
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.19	0.33	0.52	0.68	1.01	1.35	1.69	2.03	2.70	3.38	4.05	5.41	6.08	6.75	66.55	334.49
	△C	0.79	1.34	2.13	2.70	4.03	5.38	6.73	8.08	10.77						15.05	76.39
600	△U	0.79	1.33	2.13	2.68	4.01	5.36	6.69	8.04	10.70						39.35	198.50
	△C	2.18	3.65	5.82	7.30	10.95										11.57	59.61
800	△U	2.52	4.22	6.75	8.45											21.99	111.69
	△C	5.00	8.35													9.26	48.03



Pandagrate® Molded Grating Type IM150MA 1.5" Thick 0.75" x 0.75" Mini Mesh

熊猫牌模压格栅IM150MA系列-1.5" 厚 0.75" x 0.75" 小方格



Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	16
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.28" x 0.2"
Load Bar Center-to-Center (承压格径中心距)	1.5"
Cross Bar Thickness (交叉承压格径厚度)	0.28" x 0.2"
Cross Bar Center-to-Center (交叉格径中心距)	1.5"
Open Area (空间率)	42%
Approx. Weight (磅/平方英尺)	4.4 LBS/FT ²

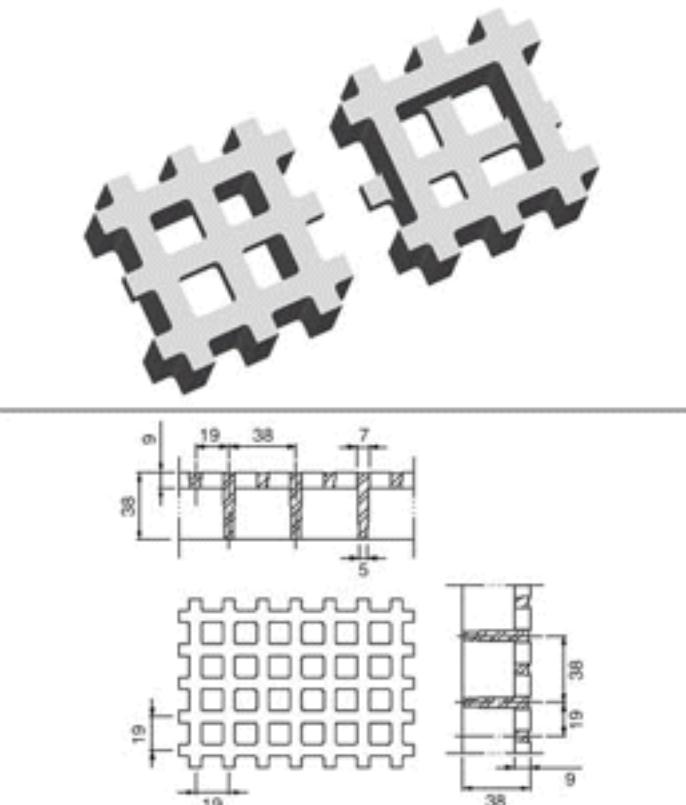
Load and Deflection Table (in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.002	0.004	0.005	0.007	0.010	0.014	0.018	0.026	0.033	0.036	2484	12420
	△C	0.002	0.006	0.007	0.010	0.014	0.018	0.026	0.036	0.044	0.050	1860	9300
18	△U	0.006	0.012	0.018	0.023	0.035	0.046	0.068	0.089	0.114	0.133	1644	8220
	△C	0.007	0.014	0.020	0.026	0.038	0.050	0.072	0.095	0.119	0.142	1236	6180
24	△U	0.018	0.034	0.051	0.069	0.101	0.132	0.198	0.265	0.332	0.395	930	4650
	△C	0.013	0.026	0.038	0.050	0.076	0.100	0.150	0.202	0.250	0.310	930	4650
30	△U	0.037	0.074	0.112	0.150	0.226	0.302	0.452	0.601			589	2946
	△C	0.023	0.048	0.072	0.096	0.144	0.191	0.287	0.383	0.470	0.574	738	3690
36	△U	0.075	0.151	0.226	0.306	0.457	0.607					406	2028
	△C	0.039	0.079	0.119	0.159	0.239	0.319	0.470				619	3096
42	△U	0.138	0.278	0.415	0.000	0.000	0.000					298	1488
	△C	0.062	0.124	0.191	0.250	0.374	0.494					526	2628
48	△U	0.222	0.455									202	1008
	△C	0.090	0.180	0.266	0.359	0.538						406	2028



Pandagrate® Molded Grating Type MM38MA 38mm Thick 19mmx19mm Mini Mesh

熊猫牌模压格栅MM38MA系列-38mm厚19mmx19mm小方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	53
Load Bar Thickness - Top/Bottom (承压格径厚度)	7mm/5mm
Load Bar Center-to-Center (承压格径中心距)	38mm
Cross Bar Thickness (交叉承压格径厚度)	7mm/5mm
Cross Bar Center-to-Center (交叉格径中心距)	38mm
Open Area (空间率)	42%
Approx. Weight (公斤/平方米)	21.5 kg/m ²

Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²													MAXIMUM RECOMMENDED	ULTIMATE CAPACITY	
		3	5	8	10	15	20	25	30	40	50	60	80	90	100		
400	△U	0.096	0.176	0.272	0.36	0.536	0.72	0.896	1.08	1.432	1.8	2.152	2.88	3.232	3.584	115	575
	△C	0.496	0.84	1.336	1.696	2.536	3.384	4.232	5.08	6.768	8.464	10.152	13.544	15.232		23	115
600	△U	0.44	0.752	1.192	1.504	2.256	3.016	3.76	4.52	6.016	7.536	9.032	12.056	13.552	15.048	58	290
	△C	1.232	2.072	3.304	4.144	6.216	8.296	10.36	12.44							18	90
800	△U	1.352	2.272	3.624	4.544	6.816	9.096	11.36	13.64							34	171
	△C	2.624	4.392	7.016	8.784	13.176										14	71
1000	△U	3.328	5.56	8.888	11.136											21	109
	△C	5.424	9.056	14.48												10	53
1200	△U	7.008	11.696													13	65
	△C	9.264	15.456													8	40



Pandagrate® Molded Grating Type IM200MA 2" Thick 1" x 1" Mini Mesh

熊猫牌模压格栅IM200MA 系列-2" 厚 1" x 1" 小方格

The table provides detailed technical specifications for the Pandagrate IM200MA Molded Grating:

Technical Date (技术数据)	
# of Bars Per Ft of Width (每英尺宽度格径数)	12
Load Bar Thickness - Top/Bottom (承压格径厚度)	0.35" x 0.23"
Load Bar Center-to-Center (承压格径中心距)	2"
Cross Bar Thickness (交叉承压格径厚度)	0.35" x 0.23"
Cross Bar Center-to-Center (交叉格径中心距)	2"
Open Area (空间率)	48%
Approx. Weight (磅/平方英尺)	5.4 LBS/FT ²

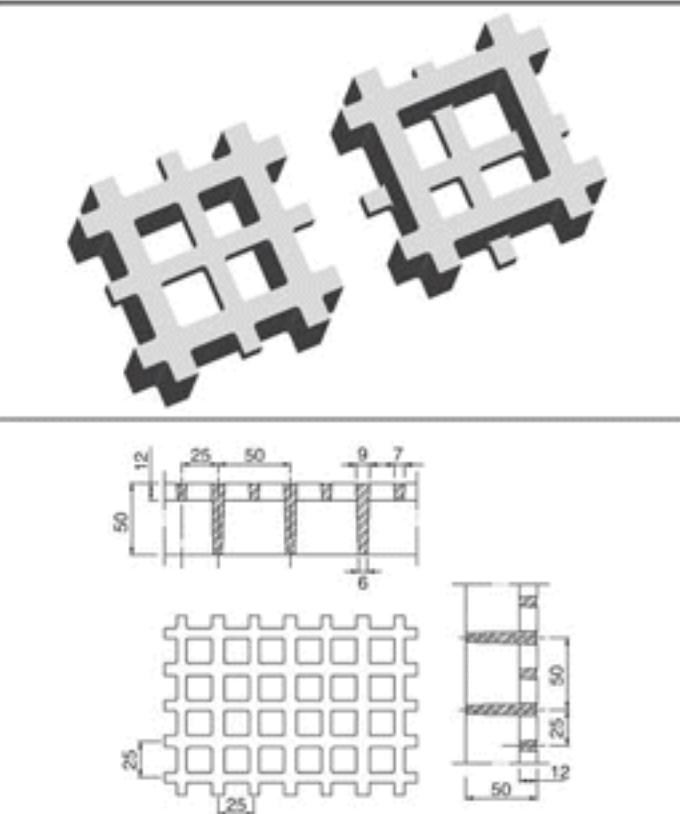
Load and Deflection Table (in inches) -Uniform and Concentrated Line Load

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED	ULTIMATE CAPACITY
		50	100	150	200	300	400	600	800	1000	1200		
12	△U	0.001	0.002	0.002	0.003	0.005	0.006	0.009	0.012	0.016	0.018	2382	11910
	△C	0.002	0.003	0.005	0.007	0.009	0.014	0.018	0.026	0.031	0.034	2382	11910
18	△U	0.003	0.007	0.010	0.014	0.020	0.026	0.039	0.050	0.066	0.076	1906	9528
	△C	0.003	0.008	0.011	0.015	0.022	0.030	0.042	0.057	0.073	0.084	1627	8136
24	△U	0.009	0.018	0.026	0.034	52.000	0.066	0.100	0.130	0.169	0.196	1147	5736
	△C	0.006	0.013	0.018	0.025	0.038	0.050	0.076	0.105	0.126	0.151	1147	5736
30	△U	0.018	0.035	0.052	0.071	0.102	0.146	0.210	0.290	0.351	0.418	764	3822
	△C	0.011	0.022	0.034	0.046	0.069	0.094	0.139	0.185	0.233	0.277	950	4752
36	△U	0.034	0.066	0.106	0.142	0.213	0.283	0.424	0.566			550	2748
	△C	0.020	0.039	0.057	0.076	0.113	0.151	0.226	0.300	0.377	0.450	812	4062
42	△U	0.064	0.130	0.196	0.262	0.391	0.522					406	2028
	△C	0.028	0.058	0.087	0.118	0.178	0.231	0.356	0.476			692	3462
48	△U	0.106	0.213	0.321	0.426							311	1554
	△C	0.039	0.085	0.126	0.169	0.250	0.338	0.501				620	3102
54	△U	0.164	0.333	0.498								240	1200
	△C	0.057	0.115	0.178	0.155	0.355	0.470					548	2742



Pandagrate® Molded Grating Type MM50MA 50mm Thick 25mmx25mm Mini Mesh

熊猫牌模压格栅MM50MA系列-50mm厚25mmx25mm小方格



Technical Date (技术数据)	
# of Bars Per Mtr of Width (每米宽度格径数)	40
Load Bar Thickness - Top/Bottom (承压格径厚度)	9mm/6mm
Load Bar Center-to-Center (承压格径中心距)	50mm
Cross Bar Thickness (交叉承压格径厚度)	9mm/6mm
Cross Bar Center-to-Center (交叉格径中心距)	50mm
Open Area (空间率)	48%
Approx. Weight (公斤/平方米)	26.4 kg/m ²

Load and Deflection Table (in millimeters) -Uniform and Concentrated Line Load

SPAN (mm)		LOAD = kN/m ²														MAXIMUM RECOM- MENDED	ULTIMATE CAPACITY
		3	5	8	10	15	20	25	30	40	50	60	80	90	100	KN	KN
400	△U	0.064	0.12	0.184	0.256	0.376	0.504	0.632	0.76	1.008	1.264	1.512	2.024	2.272	2.52	90	451.25
	△C	0.248	0.432	0.68	0.864	1.296	1.736	2.16	2.6	3.456	4.336	5.192	6.936	7.792	9.528	36.25	182.5
600	△U	0.224	0.392	0.616	0.784	1.176	1.576	1.96	2.36	3.136	3.936	4.712	6.296	7.072	7.848	93.75	470
	△C	0.704	1.192	1.896	2.384	3.576	4.776	5.96	7.16	9.536	11.936	14.312				27.5	138.75
800	△U	0.072	0.136	0.2	0.272	0.408	0.552	0.68	0.824	1.088	1.376	1.64	2.2	2.464	2.728	45	226.25
	△C	1.456	2.44	3.896	4.896	7.336	9.784	12.232	14.68							16.25	82.5
1000	△U	1.744	2.92	4.664	5.856	8.776	11.704	14.632								20	101
	△C	2.896	4.84	7.736	9.696	14.536										13.75	70
1200	△U	3.648	6.096	9.744	12.2											18.75	95
	△C	4.84	8.08	12.92												11.25	57.5
1400	△U	6.56	10.952													11.25	57.5
	△C	7.744	12.92													7.5	38.75



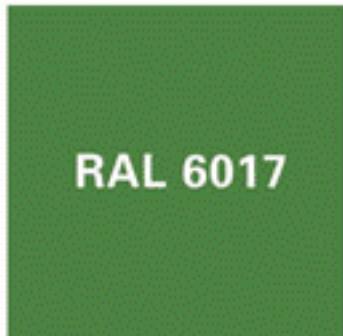
Applications

Agricultural
Air Pollution Control
Brewing and Distillery
Caustic and Chlorine
Chemical Fertilizers
Dairy and Food Processing
Fisheries
Heating, Plumbing and Air
Petrochemicals
Pigments and Dyes
Power Plants
Pulp and Paper
Sewage Treatment
Water Treatment

Typical Uses

Flooring
Platform
Walkway
Assembly Line
Trench Cover
Stair
Catwalk
Ramp

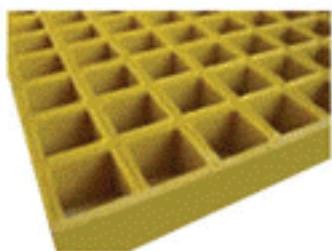
COLOR SELECTION



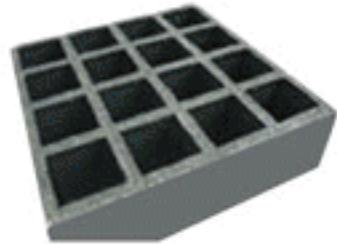
Chinagrate offers one of the wide color selections in the market today.

The followings are some colors that we maintain stock all the time. We can closely match any color in the RAL Color Chart Page. Please check our website for more details.

SURFACE SELECTION



A – Concave



B – Regular Grit

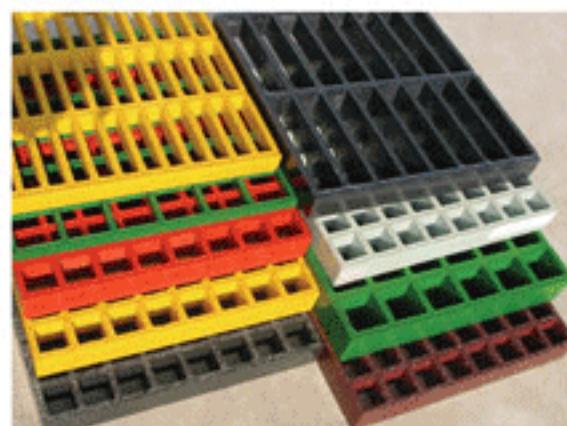
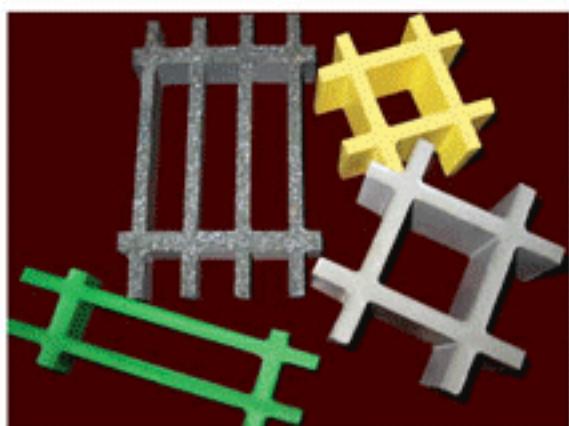


C – Integral Grit

A – Regular Concave Surface (Miniscus)

B – Secondary Silica Grit Surface

C – Integral Silica Grit Surface (Embedded in mold)



CHINAGRATE



How to specify Pandagrate Molded Gratings

- Fiberglass grating shall be Pandadeck series _____ as manufactured by Chinagrate, Nantong, China. Resin shall be (VE, XVE, IF, FF or OR), Class 1 rating of 25 or less per ASTM E-84 and meets the self extinguishing requirements of ASTM D-635. Resin shall be UV inhibited and all panels shall be tested by Concentrated Line Load before shipping. Grating shall have a thickness of (1", 1.25", 1.5" or 2"), with grid pattern of (1"x4", 1.5"x1.5", 1.5"x6" or 2"x2"). Color shall be _____(yellow, gray, green, etc).
- The surface of the panels shall be (concave, secondary grit or embedded grit).
- Grating shall be able to carry a uniform distributed load of ____ lbs. /sq. ft on a simple span of ____ inches and not deflect more than 0.25 inches.

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