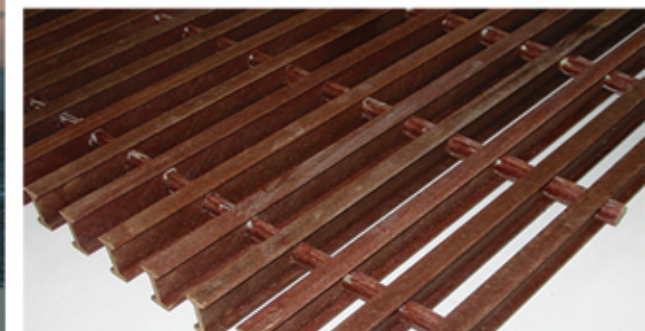
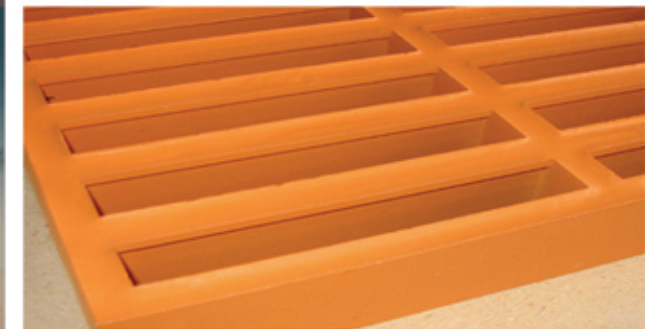




CHINAGRATE



US Coast Guard Approved

(PFM2-98 Level 2 & Level 3)

Approval No.164.040/12/0 164.040/19/0

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Fire Strength(FS)
PHENOLIC GRATINGS

Guide

■ **US Coast Guard Fire Strength (FS) Phenolic Grating Systems**

The emerging market need for low fire, smoke and toxicity (FST) in fiberglass reinforced plastics (FRP) has brought the resurgence in phenolic composites. Now Chinagrate has expanded phenolic grating system into US Coast Guard approved applications for decks, platforms, stairways and walkways, where fire integrity is critical concern.

Chinagrate Phenolic Resins

Phenolic resin is classified as a condensation reaction polymer. In this type of reaction, the polymer grows by combining two large molecules and releasing a third small molecule, usually water. Depending on the product formulation, either a novolac or a resole resin is produced. Novolacs are designed to incorporate a curing agent, such as hexamethylenetetramine, and are referred to as two-stage, which employs an acid catalyst. Resoles require no curing agent and because of the one component characteristic of this resin are therefore referred to as single-stage, which employs an alkaline catalyst.

A wide range of characteristics can be designed into a phenolic resin. Reactivity, moisture content, molecular weight, pH, monomer level, viscosity, flow, lubricity, and particle size all may determine the suitability of a resin for a particular application. Through the controlled selection of formulation options, manufacturing parameters, cure promoters, lubricants and other additives, our phenolic gratings are optimized to meet the needs of our customers.

Chinagrate uses novolac resins in our phenolic molded gratings, and resole resins in our phenolic pultruded gratings.

Major Characteristics

Superior fire and high temperature resistance- Lab test showed that when fully cured, the high strength of the chemical bonds formed gives phenolic grating an exceptional level of fire performance and resistance to high temperatures. Phenolic gratings are resistant to ignition and have extremely low level of flame spread when involved in a fire situation.

Very low smoke and toxic fume emissions – If there is a fire, phenolic resin typically generates hydrogen, hydrocarbons, water vapor and carbon dioxide when exposed to temperatures above its decomposition. In a fire situation, phenolic resin produces a relatively low amount of smoke at a relatively low level of toxicity.

Other features

- Excellent Strength-to-weight Ratio
- Corrosion and Chemical Resistance
- Low Thermal Conductivity
- Easy Fabrication and Installation
- Outstanding Durability
- Cost Effective
- Impact Resistance
- Anti-slip

TYPICAL APPLICATIONS

- Platforms
- Walkways
- Decking
- Flooring
- Stairs
- Bridges
- Ramps
- Channels

INDUSTRIAL FIELDS

- Offshore
- Mass Transit Tunnels
- Shipdecks
- Mines
- Refineries
- Chemical Processing Plants
- Public Structures
- Marine Vessels and Shipyards



C=Concentrated line load – lb/ft or kg/mtr of width
ΔC=Concentrated line load deflection (in or mm)



U=Uniform load – lb/ft or kg/mtr of width
ΔU=Uniform load deflection (in or mm)

PANEL SELECTION

MPH150RM Series

	THICKNESS mm(in)	MESH mm(in)	SIZES(mm)				
			905x 3050	1220x 2440	1220x 3660	1000x 2000	1000x 3000
			3'x10'	4'x8'	4'x12'	3.28'x6.56'	3.28'x9.84'
MPH150RM(A)	38(1.5")	38x152(1.5" x 6")	V	V	V	U	U
MPH150RM(B)	38(1.5")	25x152(1" x 6")	V	V	V	U	U

V – Available with bars on all four sides.

U – Available with fingers on one or two sides.

COLOR SELECTION



SURFACE SELECTION

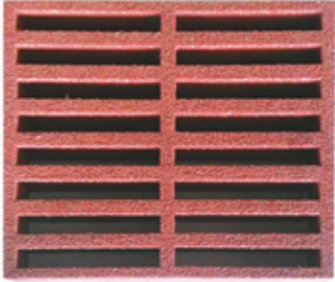
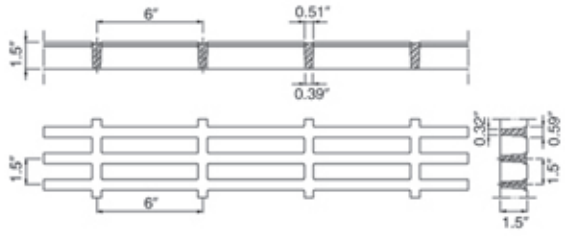


ASTM E 84-04 --- Flame Spread and Smoke Density Tests

TEST RESULTS	MPH150RM
FLAMESPREAD INDEX	0
SMOKE DEVELOPED INDEX	20-120

**Pandagrate® Fire-Strength (FS) Phenolic Gratings – Molded Series
(US Coast Guard Approved Level-2 Strength – Approval Number 164.040/12/0)**

**Pandagrate® MPH150RM(A) 1-1/2" X 1-1/2" X 6" Molded Phenolic Grating
1.5" Thick 1.5" X 6" Rectangular Mesh (Imperial)**

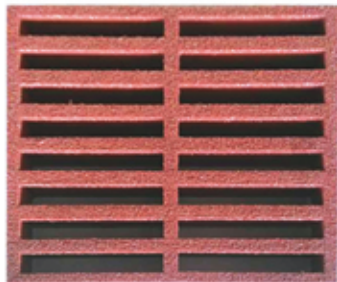
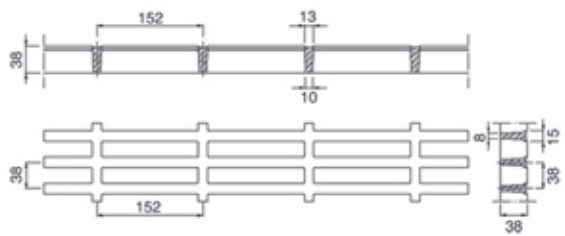
	Technical Data	
	# of Bars Per Ft of Width	8
	Load Bar Thickness – Top/Bottom	0.59" x 0.32"
	Load Bar Center-to-Center	1.5"
	Cross Bar Thickness	0.51" / 0.39"
	Cross Bar Center-to-Center	6"
	Open Area	55%
	Approx. Weight	3.8 LBS/FT²

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

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED LBS	ULTIMATE CAPACITY LBS
	50	100	150	200	300	400	600	800	1000	1200			
12	ΔU	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	2068	10340
	ΔC	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.06	1548	1550
18	ΔU	0.01	0.02	0.02	0.03	0.04	0.06	0.09	0.11	0.14	0.17	1368	1370
	ΔC	0.01	0.02	0.03	0.03	0.05	0.06	0.09	0.12	0.15	0.18	1028	1030
24	ΔU	0.02	0.04	0.06	0.09	0.13	0.17	0.25	0.33	0.42	0.49	772	775
	ΔC	0.02	0.03	0.05	0.06	0.10	0.13	0.19	0.25	0.312	0.39	772	775
30	ΔU	0.05	0.09	0.14	0.19	0.28	0.377	0.565	0.75			489	491
	ΔC	0.03	0.06	0.09	0.12	0.18	0.24	0.36	0.48	0.59	0.72	613	615
36	ΔU	0.09	0.19	0.28	0.38	0.57	0.76					336	338
	ΔC	0.05	0.10	0.15	0.20	0.30	0.399	0.59				514	516
42	ΔU	0.17	0.35	0.52								246	248
	ΔC	0.08	0.16	0.24	0.31	0.468	0.62					436	438
48	ΔU	0.28	0.57									167	168
	ΔC	0.11	0.23	0.33	0.45	0.67						337	338

**Pandagrate® Fire-Strength (FS) Phenolic Gratings – Molded Series
(US Coast Guard Approved Level-2 Strength – Approval Number 164.040/12/0)**

**Pandagrate® MPH150RM(A) 1-1/2" X 1-1/2" X 6" Molded Phenolic Grating
38mm Thick 38mmX152mm Rectangular Mesh (Metric)**


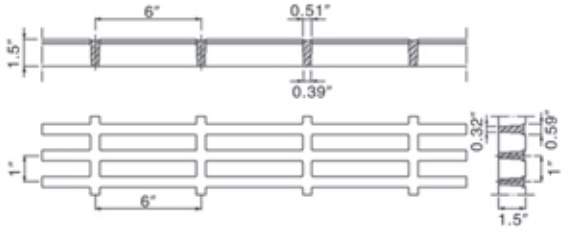
	Technical Data	
	# of Bars Per Mtr of Width	27
	Load Bar Thickness – Top/Bottom	15mm/8mm
	Load Bar Center-to-Center	38mm
	Cross Bar Thickness	13mm/10mm
	Cross Bar Center-to-Center	152mm
	Open Area	55%
	Approx. Weight	18.5 kg/m²

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

SPAN (mm)	LOAD = kN/m ²																MAXIMUM RECOMMENDED KN	ULTIMATE CAPACITY KN
	3	5	8	10	15	20	25	30	40	50	60	80	90	100				
400	ΔU	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	96	481	
	ΔC	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	88	
600	ΔU	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	45	225	
	ΔC	1.54	2.59	4.13	5.18	7.77	10.37	12.95	15.55							14	69	
800	ΔU	1.69	2.84	4.53	5.68	8.52	11.37	14.2	17.05							26	132	
	ΔC	3.28	5.49	8.77	10.98	16.47										11	55	
1000	ΔU	4.16	6.95	11.11	13.92											7	35	
	ΔC	6.78	11.32	18.1												8	40	
1200	ΔU	8.76	14.62													10	50	
	ΔC	11.58	19.32													6	31	

**Pandagrate® Fire-Strength (FS) Phenolic Gratings – Molded Series
(US Coast Guard Approved Level-2 Strength – Approval Number 164.040/12/0)**

**Pandagrate® MPH150RM(B) 1-1/2" X 1" X 6" Molded Phenolic Grating
1.5" Thick 1" X 6" Rectangular Mesh (Imperial)**

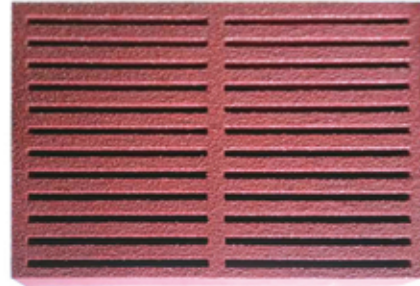
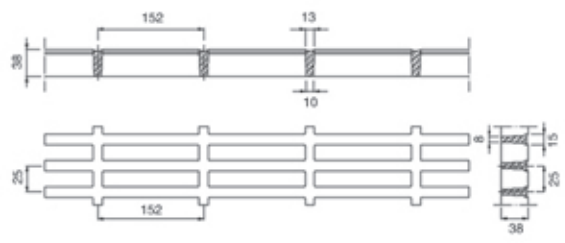
	Technical Data	
	# of Bars Per Ft of Width	12
	Load Bar Thickness – Top/Bottom	0.59" / 0.32"
	Load Bar Center-to-Center	1"
	Cross Bar Thickness	0.51" / 0.39"
	Cross Bar Center-to-Center	6"
	Open Area	37%
	Approx. Weight	4.93LBS/FT²

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

SPAN (in)	LOAD = LBS / FT ²											MAXIMUM RECOMMENDED LBS	ULTIMATE CAPACITY LBS
		50	100	150	200	300	400	600	800	1000	1200		
12	ΔU	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.04	2248	11239
	ΔC	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	1683	1685
18	ΔU	0.01	0.01	0.02	0.03	0.04	0.05	0.08	0.10	0.13	0.15	1487	1489
	ΔC	0.01	0.02	0.02	0.03	0.04	0.06	0.08	0.11	0.14	0.16	1117	1120
24	ΔU	0.02	0.04	0.06	0.08	0.12	0.15	0.23	0.30	0.38	0.45	839	842
	ΔC	0.01	0.03	0.04	0.06	0.09	0.12	0.17	0.23	0.29	0.36	839	842
30	ΔU	0.04	0.09	0.13	0.17	0.26	0.35	0.52	0.69			532	534
	ΔC	0.03	0.06	0.08	0.11	0.17	0.22	0.33	0.44	0.54	0.66	666	668
36	ΔU	0.09	0.17	0.26	0.35	0.53	0.70					365	367
	ΔC	0.05	0.09	0.14	0.18	0.28	0.36	0.54				559	561
42	ΔU	0.16	0.32	0.48								267	270
	ΔC	0.07	0.14	0.22	0.29	0.45	0.57					474	476
48	ΔU	0.26	0.52									182	183
	ΔC	0.10	0.21	0.31	0.41	0.62						366	367

**Pandagrate® Fire-Strength (FS) Phenolic Gratings – Molded Series
(US Coast Guard Approved Level-2 Strength – Approval Number 164.040/12/0)**

**Pandagrate® MPH150RM(B) 1-1/2" X 1" X 6" Molded Phenolic Grating
38mm Thick 25mmX152mm Rectangular Mesh (Metric)**

	Technical Data	
	# of Bars Per Mtr of Width	40
	Load Bar Thickness – Top/Bottom	15mm/8mm
	Load Bar Center-to-Center	25mm
	Cross Bar Thickness	13mm/10mm
	Cross Bar Center-to-Center	152mm
	Open Area	37%
	Approx. Weight	24.1kg/m²

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

SPAN (mm)	LOAD = kN/m ²																MAXIMUM RECOM- MENDED KN	ULTIMATE CAPACITY KN
		3	5	8	10	15	20	25	30	40	50	60	80	90	100			
400	ΔU	0.11	0.20	0.31	0.41	0.62	0.83	1.03	1.24	1.65	2.07	2.47	3.31	3.72	4.12	105	523	
	ΔC	0.57	0.97	1.54	1.95	2.92	3.89	4.87	5.84	7.78	9.73	11.67	15.58	17.52		19	96	
600	ΔU	0.51	0.86	1.37	1.73	2.59	3.47	4.32	5.20	6.92	8.67	10.39	13.86	15.58	17.31	49	245	
	ΔC	1.42	2.38	3.80	4.77	7.15	9.54	11.91	14.31							15	75	
800	ΔU	1.55	2.61	4.17	5.23	7.84	10.46	13.06	15.69							29	143	
	ΔC	3.02	5.05	8.07	10.10	15.15										12	60	
1000	ΔU	3.83	6.39	10.22	12.81											8	38	
	ΔC	6.24	10.41	16.65												9	43	
1200	ΔU	8.06	13.45													11	54	
	ΔC	10.65	17.77													7	34	

Pandadeck® Fire-Strength (FS) Phenolic Gratings – Pultruded Series
(US Coast Guard Approved Level-2 Strength – Approval Number 164.040/19/0)

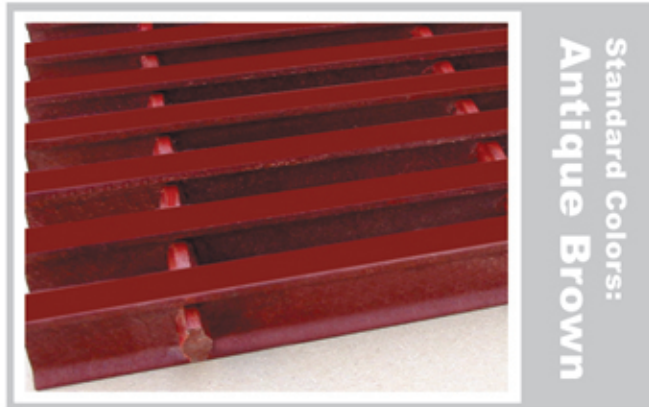
Chinagrate PPH 1-1/2" Pultruded Phenolic Grating
SIZE SELECTION

Standard Panels Size			Other Available
3' x 8'	4' x 8'	5' x 8'	3' x 24'
3' x 10'	4' x 10'	5' x 10'	4' x 24'
3' x 12'	4' x 12'	5' x 12'	5' x 24'
3' x 20'	4' x 20'	5' x 20'	

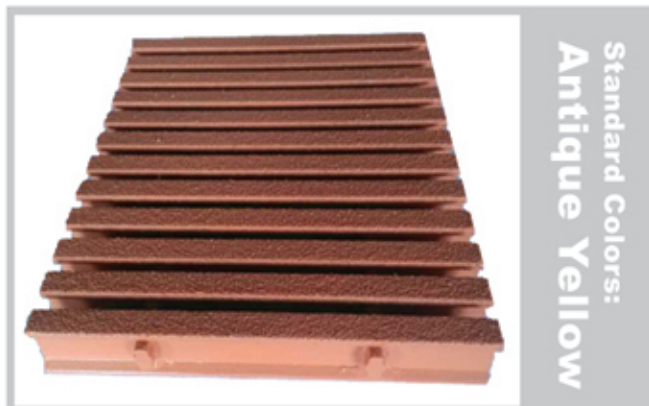
ASTM E 84-04 --- Flame Spread and Smoke Density Tests

TEST RESULTS	PPH60150
FLAMESPREAD INDEX	0
SMOKE DEVELOPED INDEX	105-185

COLOR SELECTION

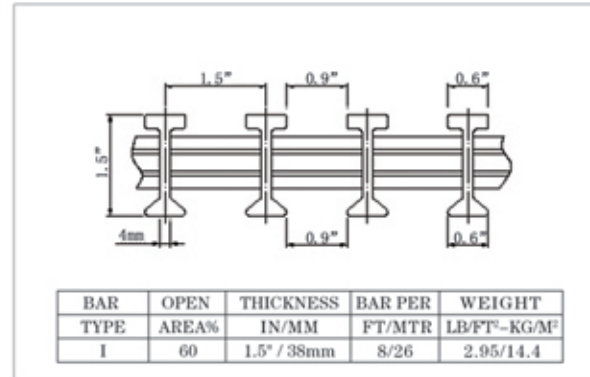


Standard Colors:
Antique Brown

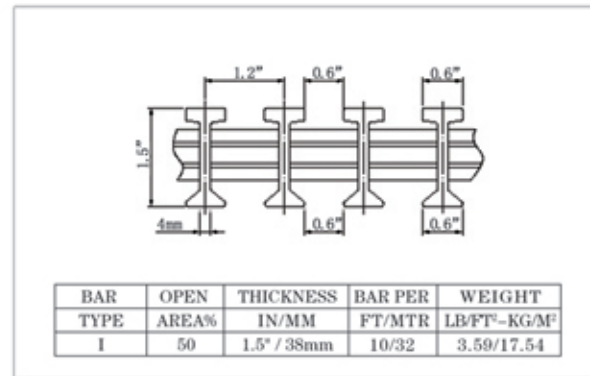


Standard Colors:
Antique Yellow

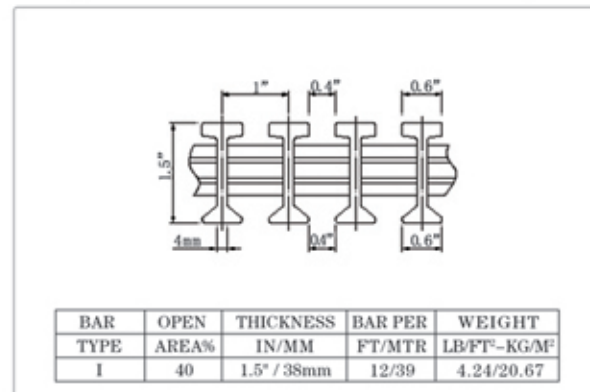
Type PPH60150 1.5" /38mm Thick 60% Open



Type PPH50150 1.5" /38mm Thick 50% Open



Type PPH40150 1.5" /38mm Thick 40% Open



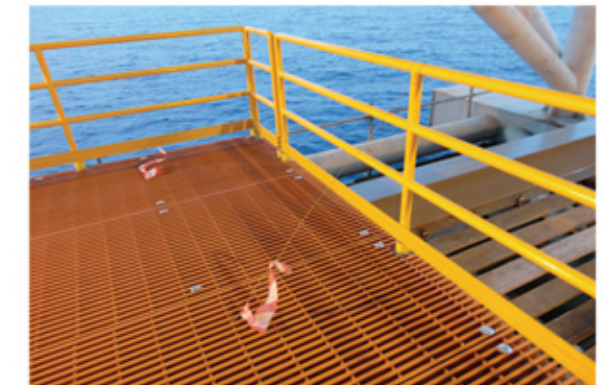
USCG L2 PandaDeck PPH Pultruded with US Coast Guard Level 2 Approval
Thickness between 1.4" to 2" (35.6mm & 50.8mm) and openness between 60% to 0%

Product Code	Thickness		Bar Type	Approved Openness							DNV Ball Drop
	Metric mm	Imperial inch		60%	58%	55%	50%	48%	40%	20%	
				22.86mm	21.06mm	18.66mm	15.24mm	14.07mm	10.16mm	3.81mm	
						19mm ball		15mm ball			
PPH36	35.6	1.40	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH37	37	1.46	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH38	38.1	1.50	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH39	39	1.54	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH40	40	1.57	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH41	41	1.61	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH42	42	1.65	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH43	43	1.69	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH44	44	1.73	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH45	45	1.77	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH46	46	1.81	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH47	47	1.85	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH48	48	1.89	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH49	49	1.93	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH50	50	1.97	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PPH51	50.8	2.00	I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

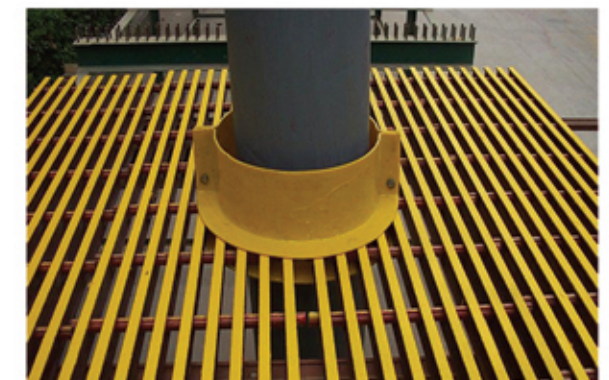
APPLICATION



Pultruded Phenolic Stair Tread



Gratings on platform





CHINAGRATE US COAST GUARD LEVEL 2 - PANDA DECK PPH I-6000 LOAD AND DEFLECTION TABLE

INCHES (mm)		50 PSF	100	5.0 kN	150	7.5 kN	200	10kN	250	12.5kN	300	15kN	400	20kN	500	30kN	750	40kN	1000	50kN	MAXIMUM RECOMMENDED LOAD		MAXIMUM DEFLECTION	
																					LB	KG	IN	mm
12	Δu	0.00	0.00	0.03	0.00	0.04	0.00	0.05	0.00	0.06	0.00	0.07	0.00	0.08	0.00	0.09	0.00	0.11	0.00	0.13	17953	8160	0.09	2.36
	Δc	0.00	0.00	0.09	0.00	0.13	0.00	0.14	0.00	0.15	0.00	0.16	0.00	0.17	0.00	0.18	0.01	0.19	0.01	0.24	8976	4080	0.07	1.89
18	Δu	0.00	0.00	0.08	0.00	0.11	0.00	0.13	0.01	0.16	0.01	0.21	0.01	0.26	0.01	0.40	0.02	0.54	0.02	0.66	7979	3627	0.20	4.95
	Δc	0.00	0.00	0.23	0.00	0.34	0.00	0.36	0.01	0.38	0.01	0.40	0.01	0.43	0.01	0.48	0.02	0.57	0.03	0.71	5984	2720	0.16	3.96
24	Δu	0.00	0.01	0.21	0.01	0.31	0.01	0.40	0.02	0.50	0.02	0.61	0.03	0.82	0.04	1.19	0.06	1.66	0.08	2.03	4488	2040	0.33	8.41
	Δc	0.00	0.01	0.51	0.01	0.76	0.01	0.80	0.01	0.89	0.02	0.96	0.02	1.09	0.03	1.22	0.05	1.32	0.06	1.61	4488	2040	0.27	6.75
30	Δu	0.01	0.02	0.47	0.03	0.71	0.04	0.96	0.04	1.19	0.05	1.42	0.07	1.90	0.09	2.81	0.13	3.89	0.18	6.78	2828	1286	0.49	12.50
	Δc	0.01	0.01	1.00	0.02	1.49	0.02	1.59	0.03	1.74	0.03	1.90	0.05	2.20	0.06	2.49	0.09	2.78	0.11	3.06	3536	1607	0.39	9.98
36	Δu	0.02	0.04	0.96	0.05	1.43	0.07	1.93	0.09	2.43	0.11	2.90	0.14	3.88	0.18	5.70	0.27	7.87	0.36	9.66	1934	879	0.68	17.30
	Δc	0.01	0.02	1.68	0.03	2.52	0.04	2.99	0.05	3.25	0.06	3.52	0.08	4.03	0.10	4.49	0.14	5.18	0.19	5.64	2902	1319	0.54	13.84
1000mm	Δu	0.02	0.04	1.08	0.06	1.60	0.06	2.16	0.10	2.72	0.12	3.25	0.16	4.34	0.20	6.38	0.30	8.82	0.40	10.82	1702	774	0.76	19.38
	Δc	0.01	0.02	1.88	0.03	2.82	0.04	3.35	0.05	3.64	0.06	3.94	0.09	4.51	0.11	5.03	0.16	5.81	0.21	6.31	2554	1161	0.61	15.50
42	Δu	0.03	0.06	1.72	0.10	2.60	0.13	3.51	0.17	4.49	0.20	5.25	0.26	7.02	0.33	10.33	0.49	14.26	0.30	13.88	631	0.89	22.50	
	Δc	0.01	0.03	2.59	0.05	3.88	0.06	3.96	0.07	4.45	0.09	4.85	0.12	5.17	0.15	5.71	0.22	6.53	0.30	8.02	2429	1104	0.71	18.00
1120mm	Δu	0.04	0.07	1.92	0.11	2.91	0.15	3.93	0.19	5.02	0.22	5.88	0.29	7.86	0.36	11.57	0.55	15.97	0.33	12.22	555	0.99	25.20	
	Δc	0.02	0.03	2.90	0.05	4.35	0.07	4.43	0.08	4.98	0.10	5.43	0.13	5.80	0.17	6.40	0.25	7.31	0.33	8.02	2137	971	0.79	20.16
48	Δu	0.06	0.11	2.91	0.12	3.08	0.15	4.17	0.20	5.33	0.23	6.23	0.31	8.33	0.37						1037	472	1.11	28.30
	Δc	0.02	0.04	3.81	0.07	5.72	0.09	6.28	0.11	6.88	0.13	7.46	0.18	8.11	0.22	8.92	0.33	9.59	0.44		2074	943	0.89	22.50
54	Δu	0.09	0.17	4.60	0.26	6.91	0.35	9.37	0.43	11.69	0.52	14.04									793	360	1.35	34.28
	Δc	0.03	0.06	0.38	0.09	8.07	0.12	9.20	0.15	10.05	0.19	10.87	0.25	12.52	0.31		0.46				1783	810	1.08	27.43
60	Δu	0.13	0.26	6.97	0.39	10.48	0.53	14.17													620	282	1.60	40.62
	Δc	0.04	0.08	7.34	0.13	11.02	0.17	14.34	0.21	15.47	0.25	16.61	0.34	18.87	0.42						1550	705	1.28	32.51
66	Δu	0.19	0.38	10.18	0.58	15.29															495	225	1.86	47.25
	Δc	0.06	0.11	9.73	0.17	14.60	0.22		0.28		0.34		0.45								1360	618	1.49	37.81
72	Δu	0.27	0.54	14.35																	398	181	2.11	53.59
	Δc	0.07	0.14	12.58	0.22		0.29		0.36		0.43										1194	543	1.69	42.91

CHINAGRATE US COAST GUARD LEVEL 2 - PANDA DECK PPH I-5000 LOAD AND DEFLECTION TABLE

INCHES (mm)		50 PSF	100	5.0 kN	150	7.5 kN	200	10kN	250	12.5kN	300	15kN	400	20kN	500	30kN	750	40kN	1000	50kN	MAXIMUM RECOMMENDED LOAD		MAXIMUM DEFLECTION	
																					LB	KG	IN	mm
12	Δu	0.00	0.00	0.02	0.00	0.03	0.00	0.04	0.00	0.05	0.00	0.06	0.00	0.07	0.00	0.07	0.00	0.10	0.00	0.11	21122	9601	0.08	2.01
	Δc	0.00	0.00	0.07	0.00	0.11	0.00	0.11	0.00	0.12	0.00	0.13	0.00	0.14	0.00	0.15	0.00	0.16	0.01	0.20	10560	4800	0.06	1.61
18	Δu	0.00	0.00	0.07	0.00	0.09	0.00	0.11	0.00	0.13	0.01	0.18	0.01	0.22	0.01	0.34	0.02	0.46	0.22	0.56	9387	4267	0.17	4.21
	Δc	0.00	0.01	0.19	0.00	0.30	0.00	0.31	0.01	0.33	0.01	0.34	0.01	0.37	0.01	0.41	0.02	0.49	0.22	0.60	7040	3200	0.13	3.37
24	Δu	0.00	0.01	0.17	0.01	0.27	0.01	0.34	0.02	0.43	0.02	0.52	0.03	0.69	0.03	1.02	0.05	1.41	0.06	1.72	5280	2400	0.28	7.15
	Δc	0.00	0.00	0.43	0.01	0.65	0.01	0.68	0.01	0.75	0.01	0.82	0.02	0.93	0.03	1.03	0.04	1.12	0.05	1.37	5280	2400	0.23	5.74
30	Δu	0.01	0.01	0.40	0.03	0.60	0.03	0.81	0.04	1.01	0.04	1.21	0.06	1.61	0.07	2.39	0.11	3.30	0.15	4.06	3327	1513	0.42	10.63
	Δc	0.00	0.01	0.85	0.02	1.26	0.02	1.35	0.02	1.48	0.03	1.61	0.04	1.87	0.05	2.37	0.07	2.11	0.09	2.60	4161	1891	0.33	8.49
36	Δu	0.01	0.03	0.82	0.04	1.21	0.06	1.64	0.08	2.06	0.09	2.47	0.12	3.29	0.15	4.85	0.22	6.69	0.31	8.21	2275	1034	0.58	14.71
	Δc	0.01	0.02	1.43	0.02	2.14	0.03	2.54	0.04	2.76	0.05	2.99	0.06	3.33	0.08	3.81	0.12	4.41	0.16	4.79	3414	1552	0.46	11.77
1000mm	Δu	0.02	0.03	0.92	0.05	1.37	0.07	1.84	0.08	2.32	0.10	2.76	0.13	3.69	0.17	5.43	0.26	7.50	0.34	9.19	2002	910	0.65	16.48
	Δc	0.01	0.02	1.59	0.03	2.40	0.04	2.85	0.04	3.10	0.05	3.35	0.07	3.84	0.09	4.27	0.13	4.94	0.18	5.37	3004	1366	0.52	13.18
42	Δu	0.02	0.04	1.02	0.06	1.53	0.07	2.05	0.09	2.59	0.10	3.09	0.15	4.13	0.19	6.08	0.29	8.39	0.38	10.29	1633	742	0.75	19.13
	Δc	0.01	0.02	2.20	0.04	3.29	0.05	3.37	0.06	3.78	0.01	4.12	0.10	4.40	0.12	4.86	0.19	5.55	0.26	6.81	2857	1299	0.6	15.30
1120mm	Δu	0.02	0.04	1.14	0.06	1.71	0.08	2.31	0.11	2.90	0.11	3.47	0.17	4.63	0.21	6.80	0.33	9.40	0.43	11.54	1437	653	0.84	21.43
	Δc	0.01	0.03	2.46	0.04	3.69	0.06	3.77	0.07	4.23	0.07	4.62	0.11	4.93	0.14	5.44	0.21	6.21	0.29	7.64	2515	1143	0.67	17.14
48	Δu	0.02	0.04	1.21	0.07	1.82	0.09	2.44	0.11	3.07	0.13	3.67	0.18	4.91	0.22	2.89					1221	555	0.95	24.07
	Δc	0.02	0.04	3.24	0.05	4.87	0.07	5.33	0.09	5.84	0.11	6.33	0.15	6.90	0.18	7.58	0.28	8.16	0.38	8.53	2439	1109	0.76	19.26
54	Δu	0.07	0.14	3.91	0.22	5.88	0.30	7.97	0.37	9.93	0.44	11.93									932	424	1.15	29.15
	Δc	0.03	0.05	4.57	0.08	6.85	0.10	7.82	0.13	8.54	0.15	9.24	0.21	10.65	0.27	10.83	0.40	12.34	0.52	14.13	2098	954	0.92	23.33
60	Δu	0.11	0.22	5.93	0.34	8.90	0.45	12.05													729	331	1.36	34.54
	Δc	0.04	0.07	6.24	0.11	9.36	0.14	12.19	0.18	13.16	0.21	14.12	0.29	16.04	0.36		0.54				1824	829	1.09	27.64
66	Δu	0.16	0.33	8.66	0.49	12.99															582	265	1.58	40.17
	Δc	0.05	0.09	8.27	0.14	12.41	0.19	5.11	0.23	6.40	0.29	7.67	0.38	10.23	0.48	6.03					1600	727	1.27	32.15
72	Δu	0.23	0.46	12.20																	468	213	1.79	45.57
	Δc	0.06	0.12	10.70	0.18		0.25	6.59	0.31	8.25	0.37	9.92	0.49	13.22							1405	639	1.44	36.49

CHINAGRATE US COAST GUARD LEVEL 2 - PANDA DECK PPH I-5500 LOAD AND DEFLECTION TABLE

INCHES (mm)		50 PSF	100	5.0 kN	150
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