



U. S. Department of Homeland Security  
**United States Coast Guard**  
**Certificate of Approval**

Coast Guard Approval Number: 164.040/19/2

Expires: 30 November 2019

FIBER REINFORCED PLASTIC GRATING

Chinagrate Composite Structures (Nantong) Ltd.  
11 South Tongfu Road  
Nantong 226009  
Jiangsu Province, People's Rep CHINA

Panda Deck PPH60150 pultruded phenolic grating.

Maximum unsupported span of 1120 mm (44 in); bearing bar thickness is 38.1 mm (1.5 in) with bearing bar maximum spacing of 38.1 mm (1.5 in) on center. Approved for use in locations and applications in accordance with US Coast Guard PFM 2-98 for fire retardant FRP grating meeting structural fire integrity Level 2 (L2), except for accommodation, service and control spaces.

Identifying Data: SwRI Project No. 01.20684.01.302 dated November 4, 2014 (PFM 2-98); and Intertek Project No. 101547766SAT-001T dated September 10, 2014 (ASTM E-84).

All grating reinforcements, resins, adhesives, and construction details are as indicated in the Follow-up Procedure Document, SwRI Project No. 01.25000.02.188 Revision 1, issued February 2011.

Approval only valid for grating manufactured at the above location.

Supersedes and extends Certificate 164.040/19/1 dated November 30, 2010, to reflect sole bearing bar thickness of 1.5 inches and new modification number.

\*\*\* END \*\*\*

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 30<sup>th</sup> DAY OF  
NOVEMBER 2014, AT WASHINGTON D.C.

B. A. BALDWIN  
Chief, Lifesaving and Fire Safety Division  
BY DIRECTION OF THE COMMANDANT

**TERMS:** The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

**NOTICE:** Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."