Certificate No: LR25201418SF
Issue Date: 13/11/2025
Expiry Date: 12/11/2030

Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	**Chinagrate Composite Structures (Nantong) Co., Ltd.**
Address	230 Haixin Road, Dongan Hi-tech Park, Intersection of Haixin&Jiangxin, Road,Jianghai Linkage Development, Demonstration Area, Tongzhou Bay, Nantong, 226009, China
Type	FIBER REINFORCED PLASTIC GRATING
Description	1.FRP gratings meeting Surface Flammability and Level 2 (L2) Structural Fire Integrity in accordance with ASTM F3059, Paragraphs 16 and 17 respectively - Type: “Pandagrate MPH150RM” FRP Grating 2.FRP Gratings meeting Surface Flammability and Level 2 (L2) Structural Fire Integrity in accordance with ASTM F3059 Paragraphs 16 and 17 respectively and Smoke and Toxicity and Low Flame Spread Properties in accordance with 2010 FTP Code Annex 1 Parts 2 and 5 respectively - type “Pandagrate MPH150RM” FRP Grating with “Conductive Carbon Coating”
Trade Name	“Pandagrate MPH150RM” FRP gratings
Specified Standard	ASTM F3059 , Paragraphs 16 and 17 - Standard Specification for Fiber-Reinforced Polymer (FRP) Gratings used in Marine Construction and Shipbuilding” (limited to Surface Flammability and Structural Fire Integrity only). IMO Res. MSC.307(88)-(2010 FTP Code) Annex 1, Part 2 and Part 5

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register Marine Polska sp. z o. o. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Marta Walk

Fire & Safety - Senior Specialist to Lloyd's Register Marine Polska sp. z o. o.
A member of the Lloyd's Register group

Al Zwycięstwa 13a, Gdańsk, 80-219, Poland

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This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

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