



Coarse GRP Stair Nosing

Core Qualification Certifications

1. Production System Certification:

ABS (American Bureau of Shipping) Production Assessment Certification

Certificate Number: 23-5456236

Validity: February 7, 2023 - February 6, 2028

Core Accreditation: Production quality control system and production processes comply with ABS rules/standards; mass-produced products meet design sample consistency standards; annual audits are required; production/quality control/product changes must be reported to ABS.

2. Product Performance Certification:

DNV Det Norske Veritas Type Approval Certificate

Certificate Number: TAF0000025 Revision 3

Validity: May 9, 2023 - May 8, 2028

Core Recognition: The Jossongrate (Powergrate) series of molded/pultruded FRP gratings complies with DNV Marine Code and SOLAS Convention interpretation requirements, achieving fire integrity matching marine vessel L0-L3 ratings, and can be installed on all DNV-classed vessels.

3. Third-party performance testing:

SGS fire resistance performance test report

Report No.: AJFTS25002227R04_EN

Testing time: April 2025

Core results: The product was tested according to ASTM E84-2024, with a flame spread index (FSI) of 15 and a smoke index (SDI) of 350, reaching Class A (the highest international fire resistance rating for building materials), verifying the product's excellent flame retardant, smoke suppression, and ignition resistance performance.

Core Product Advantages

Superior Fire Resistance: The product meets SGS testing standards for ASTM E84-2024 Class A and also meets DNV's L0-L3 structural fire integrity requirements for ships, with a flame spread index of 0-20 and a smoke index of 135-400, making it suitable for areas with high fire resistance requirements on ships.

Lightweight and Cost-Effective: The measured areal density is as low as 10.3 kg/m², lower than similar certified products in the industry, achieving the dual advantages of lightweight & high fire resistance.

Compliant Production System: Approved by both ABS and DNV, two major international classification societies, the production process and quality control system meet the stringent requirements for marine equipment, ensuring consistent mass production.

Wide Range of Applications: Ideally suited for engine rooms, cargo oil pump rooms, cargo holds, and open decks on ABS/DNV-classed ships. Due to its Class A fire resistance rating, it can also be extended to land-based buildings, industrial plants, and other scenarios with high fire resistance requirements.