Certificate No: LR26161160LNG
Issue Date: 14/04/2026
Expiry Date: 13/04/2031

Certificate of General Approval for LNG Containment System Component

This certificate is issued to the company below to certify that the undernoted LNG system components have been examined for conformity with Lloyd's Register's "Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk", together with the relevant Gaz Transport & Technigaz (GTT) specifications and has been found to be acceptable.

Manufacturer	**DONGSUNG FINETEC CO., Ltd.**
Address	120 Hyeopdongdanji-Gil Miyang-Myeon, Anseong-si, Gyeonggi-do, 17600, South Korea
Product Name	**FINEFOAM 2300-130-290-9L (290mm, 130kg/m3, 9 CSM, HFO-1233zd blown)**
Product Type	Reinforced Polyurethane Foam (R-PUF)
Approval Documentation	• KTR Test Report TAK-2025-039356 on Compressive Test after N2/NH3 Immersion, dated 22 Apr 2025 • KTR Test Report TAK-2025-039355 on Flammability Test, dated 10 Apr 2025 • Dongsung Finetec Thermal Conductivity Test Report of FINEFOAM 2300-130-290-9L, dated 12 May 2025, witnessed by LR • GTT Test Report MAT-RPT-400604 R02, dated 27 Nov 2025
Reference Documentation	Reinforced Polyurethane Foam (R-PUF) GTT Specification No. M3007, Rev. 03 (November 2015)
Application	The product listed above may be used as indicated on approved drawings for vessels classed with Lloyd's Register in GTT Mark III / Flex membrane LNG containment system. Final agreement for the use of this material for a specific ship project will be subject to a successful FEM calculation. If either the GTT reference documentation mentioned above is altered to a later version, or if the product listed above changes in design or composition, this certificate becomes invalid.

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Dariusz Boryszewski

Ship Structure - Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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