Certificate No: LR2357878TA
Issue Date: 12/02/2023
Expiry Date: 30/05/2024

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Dong Myung Industrial Co., Ltd.**
Address	109-21, Sandanjungang-ro, Yeosu-si, Jeonllanam-do, 59610, South Korea
Place of Production	Hwaseung Material Co., Ltd. 56, Myeongnyesandan 5-ro, Jangan-eup, Gijang-gun, Busan, 46028, South Korea
Type	Rubber Expansion Joints
Description	Expansion Seal for Cargo Tank Dome
Trade Name	DM Expansion Seal
Application	Expansion Seal for Cargo Tank Domes of Marine Ships
Specified Standard	ASTM D2240 - 15 ASTM D412 ASTM D624 ASTM D751 ASTM D573 ISO 4650
Ratings	Vulcanized Neoprene Rubber with Two(2) or Three(3) Layers of Synthetic Fiber Reinforcement Inside

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Yong-Dae Kong

Senior Specialist to Lloyd's Register Asia
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Standard Size (mm)
3102*1792*200 (OPEN SQUARE TYPE)
5400*3400*200 (OPEN SQUARE TYPE)
6555*5145*200 (OPEN SQUARE TYPE)
6980*5680*200 (OPEN SQUARE TYPE)
1672*1452*125 (OPEN ROUND TYPE)

Additional Tests

The following tests are carried out on representative samples:
1) Air Leakage Test
2) Axial Moving Test
3) Raw Material Test

Other Conditions

1) The materials are to be suitable for all expected service conditions of the ship and are to be compatible with the environment onboard.
2) Leak test onboard is to be carried out after installation. The test pressure is to be at least the same as the maximum pressure of hold spaces (e.g. P/V valve set pressure) and no leakage and no deformation to be found.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 19/40026

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

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