Certificate No: LR21452527MB
Issue Date: 17/10/2021
Expiry Date: 16/10/2026

Notified Body authorised by
BSH 0800-S23/4822:011

EC Type Examination (Module B) Certificate

USCG-EU MRA

This is to certify that:
LLOYD'S REGISTER Deutschland GmbH (LRD), designated as a "notified body" based on the notification of the Federal Maritime and Hydrographic Agency of Germany, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

Manufacturer	**LOROWERK**
Address	K.H. Vahlbrauk GmbH & Co. KG, Kriegerweg 1, Bad Gandersheim, 37581, Germany
Reference	Regulation (EU) 2021/1158
Regulation Item (No. & Item Designation)	MED/3.26b Penetrations Through 'A' Class Divisions - Pipe, Duct, Trunk Etc. Penetrations
Product Type	PIPE PENETRATION (STANDARD FIRE TEST)
Product Description	Fire Resisting Single Steel Pipe, Circular Penetration System – Type: "LORO-X" for applications in steel bulkheads and decks.
Specified Standard	IMO Res. MSC.307(88)-(2010 FTP Code) Annex 1, Part 3 IMO MSC.1/Circ.1488
Trade Name	"LORO-X" Single Steel Pipe, Circular Penetration System.

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRD of any modification or changes to the equipment in order to obtain a valid Certificate.

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Lloyd's Register Deutschland GmbH, Überseeallee 10, D-20457 Hamburg, Germany.
A member of the Lloyd's Register group

Saji Abraham

Surveyor
For and on behalf of Lloyd's Register Deutschland GmbH (0525)

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This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed on 27 February 2004 and amended by Decision No.1/2018 dated 18 February 2019 according to U.S. Coast Guard approval category USCG Module B number:

164.138/EC0525

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production Module certificate (Module D, E or F).

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

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