

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	Gutteling B.V.
Address	Pelsertstraat 9, Rotterdam, 3044 CH, Netherlands
Type	Flexible Hoses
Description	GUTTELING – Chem Red GUTTELING – Oil Blue GUTTELING – Chem Green GUTTELING – Chem Black GUTTELING – Vapor Yellow GUTTELING – LPG White GUTTELING – LNG White
Trade Name	Cargo Composite hose assemblies
Application	Oil, Chemical, LPG and LNG systems
Specified Standard	Rules and Regulations for the Classification of Ships, July 2021 Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquid Chemicals in Bulk, July 2021 Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, July 2021 IBC Code; IGC Code EN 13765:2018; EN 13766:2019

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Ratings	See Appendix
Other Conditions	Each hose assembly to be hydraulic pressure tested to 1.5 times the working pressure The hoses may be used for temporary filling and discharge only They are not to be permanently fitted Hoses are to be selected and installed in accordance with the manufacturer's instructions and recommendations

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 17/30021

The Design Appraisal Document RTS-TA-PRJ PRJ11100371597/MB and its supplementary Type Approval Terms and Conditions form part of this Certificate.