

## 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.

<b>Manufacturer</b>	<b>Gutteling B.V.</b>
<b>Address</b>	Pelsertstraat 9, Rotterdam, 3044 CH, Netherlands
<b>Type</b>	Flexible Hoses
<b>Description</b>	GUTTELING – LNG White STS
<b>Trade Name</b>	STS Cargo Composite hose assemblies
<b>Application</b>	Ship to Ship transfer of LNG
<b>Specified Standard</b>	EN 1474-2:2020 Installation and equipment for liquefied natural gas Design and testing of marine transfer systems Part 2: Design and testing of transfer hoses
<b>Ratings</b>	See Appendix
<b>Additional Tests</b>	See Appendix
<b>Other Conditions</b>	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 handled and installed in accordance with the manufacturer's

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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:** 18/30016

The Design Appraisal Document RTS-TA-PRJ11100357021/MB and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Kingdom

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