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Register

# 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.*

This certificate is issued to:

<b>PRODUCER</b>	Tubithor S.p.A
<b>PLACE OF PRODUCTION</b>	Via Caduti per la Patria, 83 20050 Lesmo Italy  Via Marisa Bellisario, 54 66050 San Salvo Italy
<b>DESCRIPTION</b>	Fire resistant fuel hoses for small craft
<b>TYPE</b>	SOUTHAMPTON/I5C, I5N
<b>APPLICATION</b>	Fuel hose for small crafts of hull length up to 24 m
<b>STANDARD</b>	ISO 7840:2013 (Small craft – Fire-resistant fuel hoses) ISO 13363: 2016 (Rubber and plastics hoses for marine-engine wet-exhaust systems – Specification) SAE J 1527: 2011 (Marine Fuel Hoses)

<b>Certificate No.</b>	17/20104
<b>Issue Date</b>	27 October 2017
<b>Expiry Date</b>	26 October 2022
<b>Sheet</b>	1 of 2



for Torsten Schröder  
Hamburg Technical Support Office  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

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#### RATINGS

##### SOUTHAMPTON I5C

Internal diameter (mm): 25 to 60  
Design pressure (bar): 2,5  
Temperature range (°C): -20 to +80

##### SOUTHAMPTON I5N

Internal diameter (mm): 16 to 60  
Design pressure (bar): 2,5  
Temperature range (°C): -20 to +80

#### OTHER CONDITIONS

Prototype pressure tests are to be carried out on each new type of hose and end fitting. The bursting pressure is to be not less than four times the maximum pressure in service.

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HTS/ENS 36817-17 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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