

## 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>ALFAGOMMA INDUSTRIAL S.p.A.</b>
<b>Address</b>	Via Attilio di Sante, snc, Nucleo Industriale, Sant'Atto (TE), 64100, Italy
<b>Type</b>	Marine Diesel Exhaust Hose And Components
<b>Description</b>	<p>653 AA: Softwall exhaust hose comprising a black synthetic elastomer lining cover, reinforced with high tensile textile cords.</p> <p>6E1 AA: Hardwall exhaust hose comprising a black synthetic elastomer lining reinforced with high tensile textile cords with embedded steel helix wires in a corrugated cover.</p>
<b>Application</b>	<p>A short joining lengths to accommodate relative movement in water cooled marine diesel exhaust systems in craft up to 24 m length;</p> <p>As short joining lengths to accommodate relative movement in water cooled marine diesel exhaust systems in craft greater than 24 m length, subject to compliance with LR Rule requirements.</p>
<b>Specified Standard</b>	ISO 13363:2016 - Rubber and plastic for marine engine wet exhaust systems; SAE J 2006:2013 - Marine exhaust hose



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### Ratings

Classification (according to ISO 13363):  
Type T-653 AA: Type 1, Class A & B  
Type T-6E1 AA: Type 2, Class A & B

Classification (according to SAE J2006):  
Type 653AA: Style R1  
Type 6E1AA: Style R2

Internal diameter (mm): 25 to 203  
Max. working pressure (bar): 3

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:** 08/00005(E3)

The Design Appraisal Document LR22537771DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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