



Lloyd's
Register

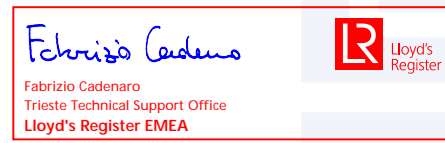
Type Approval Certificate Extension

This is to certify that Certificate No. 08/00005(E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Alfagomma Industrial SpA
PLACE OF PRODUCTION	Nucleo Industriale 64020 S.Atto (TE) Italy
DESCRIPTION	Marine diesel exhaust hose
TYPE	653 AA: Softwall exhaust hose comprising a black synthetic elastomer lining and cover, reinforced with high tensile textile cords 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.
APPLICATION	As short joining lengths to accommodate relative movement in water cooled marine diesel exhaust systems in craft up to 24m length; As short joining lengths to accommodate relative movement in water cooled marine diesel exhaust systems in craft greater than 24m length, subject to compliance with LR Rule requirements.
SPECIFIED STANDARDS	ISO 13363:2016 – Rubber and plastics for marine engine wet exhaust systems; SAE J 2006:2013 – Marine exhaust hose

Certificate No.	08/00005(E3)
Issue Date	11 January 2019
Expiry Date	9 January 2023
Sheet	1 of 2



Fabrizio Cadenaro
Trieste Technical Support Office
Marine & Offshore Lloyd's Register

Lloyd's Register EMEA

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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."

The attached Design Appraisal Document No. 08/00005(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 08/00005(E1) & 08/00005(E2) to which this amendment should be attached.

Certificate No. 08/00005(E3)
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Sheet 2 of 2



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