Tubi multistrato metallo-plastici, raccordi in ottone e plastici in PPSU per impianti sanitari di riscaldamento e condizionamento nel settore navale (Prescrizioni LR).

Metal-plastic multi-layer pipes, brass fittings and plastic fittings in PPSU for dhw, heating and air-conditioning systems in the shipping application (LR Prescriptions).

SETTORE NAVALE - NAVAL INDUSTRY



Type Approval Certificate Extension

This is to certify that Certificate No. 03/00044(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER Valsir SPA

PLACE OF Localita Merlaro 2 **PRODUCTION** 25078 Vestone(BS)

DESCRIPTION Plastic pipe and fittings

Pexal multilayer pipes: from OD 14 to 75 mm (Red RAL3020, Blue RAL5015, White RAL9003) Brass Compression fittings: from OD 16 to 32 mm

Brass Crimp fittings: from OD 14 to 75 mm Pexal EASY ppsu fittings: from OD 14 to 63 mm

TYPE PEXAL

APPLICATION Marine applications for heating and sanitary systems.

SPECIFIED STANDARDS Lloyd's Register's Rules and Regulations for the Classification of

Ships and EN 744 (Test method for resistance to external blows

by the round - the-clock method).

RATINGS Normal diameter (mm): 14 to 75

0 to 95 Temperature range (°C):

Nominal internal pressure (bar): 16 for OD14 to OD32

13 for OD40 to OD75

Nominal external pressure (bar): 10

OTHER CONDITIONS Pipes are to be selected and installed in accordance with the

manufacturer's instructions and recommendations.

Certificate No. 03/00044(E4)

Issue Date 22 May 2018

Expiry Date 21 April 2023

Sheet 1 of 2

Fabrizio Cadenaro Trieste Technical Support Office

Lloyd's Register EMEA

Lloyd's Register EMEA

71 Fenchurch Street, London EC3M 4BS

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Tubi multistrato metallo-plastici, raccordi in ottone e plastici in PPSU per impianti sanitari di riscaldamento e condizionamento nel settore navale (Prescrizioni LR).

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"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. 03/00044(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/00044(E3) to which this extension should be attached.

Certificate No. 03/00044(E4)

Issue Date 22 May 2018

Expiry Date 21 April 2023

Sheet 2 of 2

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



Fabrizio Cadenaro Trieste Technical Support Office Lloyd's Register EMEA

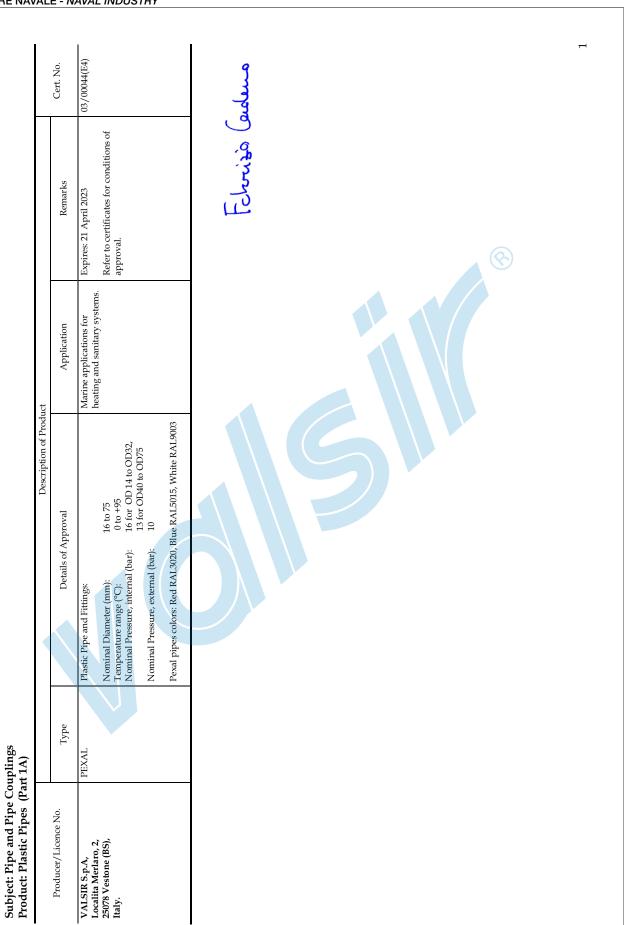
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SETTORE NAVALE - NAVAL INDUSTRY



Lloyd's Register EMEA (London Office)

Marine Technology & Engineering Services
Toyd's 71 Fenchurch Street, London, EC3M 4BS
Register Telephone 020 7709 9166 Fax 020 7488 4796
Email tad@lr.org

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DESIGN APPRAISAL DOCUMENT

Date	Quote this reference on all future communications	
22 May 2018	PRJ4499-8	

LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.

Issued to: VALSIR SPA for: PEXEL PLASTIC PIPES AND FITTINGS TYPE APPROVAL CERTIFICATE No. 03/00044(E4)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

ADDITIONAL APPROVAL DOCUMENTATION

Request for Services TAC 2018/35

Application Checklist

PQA Report PRJ4499

LR Stamped test reports 20180319153753039, 20180319153823488, 20180319153915255,
20180319153941650, 20180319161749603

RINA Fire Test Report 2008CS015841/1

RINA Fire Test Report 2008CS015841/2

15 March 2018
19 March 2018
29 December 2008
29 December 2008

Previous documentation as listed in Design Appraisal Documents 03/00044 to 03/00044(E3) inclusive.

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

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

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

Fabrizio Cadenaro Engineering Systems, Trieste Technical Support Office Marine Technology & Engineering Services



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