



**TYPE APPROVAL CERTIFICATE**  
No. MAC038616CS/001

**This is to certify** that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	<b>Plastic pipes and fittings</b>
<i>Type</i>	<b>ALFAIDRO</b>
<i>Applicant</i>	<b>PLASTICA ALFA S.R.L. CONTRADA S.M. POGGIARELLI, ZONA INDUSTRIALE 95041 CALTAGIRONE (CT) ITALY</b>
<i>Manufacturer</i>	<b>PLASTICA ALFA S.R.L.</b>
<i>Place of manufacture</i>	<b>CONTRADA S.M. POGGIARELLI, ZONA INDUSTRIALE 95041 CALTAGIRONE (CT) ITALY</b>
<i>Reference standards</i>	<b>Part C, Chapter 1, Appendix 3 of RINA Rules for the Classification of Ships</b>

Issued in **Genoa** on **May 10, 2016**. This Certificate is valid until **May 9, 2021**



**RINA Services S.p.A.**  
**Francesco Sciacca**

This certificate consists of this page and 1 enclosure in which pressure rating, sizes, fields of applications, etc.. are shown.

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**ALFAIDRO**

### **Reference documents**

PLASTICA ALFA catalogue "Alfaidro PPR" products

### **Materials**

Polypropylene random-copolymer

### **Technical characteristics**

Maximum working pressure [bar]:

at ambient temperature : PN 20

at the temperature of 60°C: PN 8.3

Pipes sizes (DN x t): 20x3.4, 25x4.2, 32x5.4, 40x6.7, 50x8.4, 63x10.5, 75x12.5, 90x15, 110x18.3 mm  
(pipes are identified in the catalogue 2015 with codes 00TA)

Fitting sizes: DN 20, 25, 32, 40, 50, 63, 75, 90, 110 mm

### **Tests carried out**

Low flame spread characteristic (test report no. 2016CS01480 dated 11th March 2016)

RINA report file 2016.AU.01.255 dated 26 April 2016 and Plastica Alfa report dated 26 April 2016 relevant to the tests carried on 26 April 2016

### **Fields of application**

Sanitary systems, heating and conditioning systems for which low flame spread characteristic is required as indicated at para. 2.3.2. and at Table 1 of Part C, Chapter 1, Appendix 3 of RINA Rules.

### **Remarks**

The marking of pipes is to be made in accordance with [2.1.2] of Pt C, Ch 1, App 3 of RINA Rules.

Workshop tests are to be made in accordance with [4.2] of Pt C, Ch 1, App 3 of RINA Rules.

Testing after installation on board are to be made in accordance with [4.3] of Pt C, Ch 1, App 3 of RINA Rules.

The arrangement on board is to be made in accordance with the instructions of the Manufacturer and with [3] of Pt C, Ch 1, App 3 of RINA Rules.

The installation on board of ships built according to the "Rules for the construction and classification of high speed crafts" of RINA is subject to the satisfactory outcome of the tests foreseen by IMO Resolution A.753(18)



**Genoa May 10, 2016**