

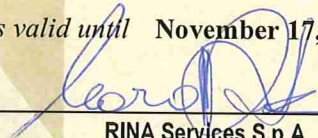


TYPE APPROVAL CERTIFICATE
No. MAC338819CS/002

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

<i>Description</i>	Plastic pipes and fittings
<i>Type</i>	COPRAX
	SDR 6 - PN20
<i>Applicant</i>	PRANDELLI S.P.A.
	VIA RANGO 58
	25065 LUMEZZANE S.S. (BS)
	ITALY
<i>Manufacturer</i>	PRANDELLI S.P.A.
<i>Place of manufacture</i>	VIA RANGO 58
	25065 LUMEZZANE S.S. (BS)
	ITALY
<i>Reference standards</i>	Parte C, Capitolo 1, Appendice 3 delle Norme RINA

Issued in **Genoa** on **November 18, 2019**. This Certificate is valid until **November 17, 2024**



RINA Services S.p.A.
Marco Dardano

This certificate consists of this page and 1 enclosure



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Reference Documents

COPRAX System Catalogue "Prandelli's range 2019"

Materials

PP-Copolymer Random (PP-R)
PP-R fittings for welding
PP-R fittings with metallic insert

Technical Data

Reference Standard for the pipe: UNI EN ISO 15874

OD and thickness:

OD (mm)	Thickness (mm)
20	3,4
25	4,2
32	5,4
40	6,7
50	8,3
63	10,5
75	12,5
90	15
110	18,3

PN: 20 bar at ambient temperature.

Max. working pressure at 60°C: 10 bar.

For different temperatures reference is to be made to Manufacturer's Specifications.

Field of application

Sanitary plants, heating systems and air conditioning systems where low flame spread characteristics are required in accordance with Para. 2.3.2. and Tab. 1 of Part C, Chapter 1, Appendix 3 of RINA Rules.

Remarks

Installation onboard is to be carried out in accordance with the Manufacturer's instructions.

Pipes and fittings marking is to be in accordance with Para. 2.1.2 of a.m. Appendix 3.

Where plastic pipes pass through "A" or "B" class divisions, arrangements are to be made to ensure that fire endurance is not impaired. These arrangements are to be tested in accordance with "Recommendations for Fire Test Procedures for "A", "B" and "F" Bulkheads" (IMO Resolution A754 (18) as amended) [Para.3.6.1 of Appendix 3].

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Prior to installation onboard pipes and fittings are to undergo workshop tests at Manufacturer's premises in accordance with Para. 4.2 and, after installation onboard, in accordance with Para. 4.3 of the a.m. Appendix 3.
Installation onboard ships built and classed in compliance with RINA "Rules for the Classification of High Speed Crafts" is subject to full compliance with requirements of IMO Resolution A.753(18).

Genoa 18/11/2019


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