

TYPE APPROVAL CERTIFICATE No. MAC029314CS

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

Description Plastic pipes and fittings

Type HTA System
Applicant GIRPI

RUE ROBERT ANCEL BP36

F76700 HARFLEUR

FRANCE

Manufacturer GIRPI

Place of manufacture RUE ROBERT ANCEL BP36

F76700 HARFLEUR

FRANCE

Reference standards Part C, Chapter 1 Appendix 3 of RINA Rules

Issued in Genoa on February 24, 2014. This Certificate is valid until February 23, 2019

RINA Services S.p.A. Francesco Sciacca

This certificate consists of this page and 1 enclosure



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Reference documents

GIRPI Technical Documentation, Ed. 2008.

Material

Chlorinated Polyvinyl Chloride (C-PVC) thermoplastic polymer.

Technical characteristics

Joining technique: cold welding

Size range:

Outer Pipe Diameter	Minimum Thickness (mm)	
(mm)	PN 25	PN 16
16	1.8	
20	2.3	
25	2.8	State of A Man
32	3.6	2.4
40	4.5	3.0
50	5.6	3.7
63	7.1	4.7
75		5.5
90		6.6
110		8.1
125	ST 16 16 16 16 16 16 16 16 16 16 16 16 16	9.2
160		11.8

Temperature range: 0℃ up to 80℃

For temperatures higher than 20℃ the maximum allowable working pressure is to be reduced according to the Manufacturer's specifications.

Fields of application

HTA pipes and fittings are approved for the use on non essential systems and for locations where no fire endurance test is required in accordance with Appendix 3, Ch 1, Pt C of RINA Rules.

The a.m. products are acceptable on open decks, within tanks, cofferdams, pipe tunnels, ducts and further locations where flame spread is required according to Par 2.3.2, Appendix 3, Ch 1, Pt C of RINA Rules.



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Acceptance conditions

Plastic pipes and fittings are to be permanently marked with identification in compliance with Par 2.1.2, Appendix 3, Ch 1, Pt C of RINA Rules.

The arrangement and installation of the plastic pipes on board is to be made in accordance with Manufacturer's instructions and with Par 3, Appendix 3, Ch 1, Pt C of RINA Rules.

The workshop tests and testing after installation on board are to be carried out in compliance with Par 4.2 and 4.3, Appendix 3, Ch 1, Pt C of RINA Rules.

Remarks

The installation on board 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).

This Certificate cancels and replaces the previous N°MAC013909CS dated 16/01/2009.

Genoa 24/02/2014

