



Germanischer Lloyd

Type Approval Certificate

This is to certify that the undemoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 81 180 - 95 HH

Company GIRPI
Rue Robert Ancel
F-76700 Harfleur

Product Description THERMOPLASTIC PIPES AND FITTINGS

Type HTA System

Environmental Category None

Technical Data / Range of Application TECHNICAL DATA:
Size Range : 16 [mm] up to 160 [mm] outside pipe diameter
Nominal Pressure: PN 25 / PN 16
Temperature range: 0 [°C] up to + 80[°C]
M.A.W.P. [bar]: Acc. to pressure tables specified by the manufacturer

RANGE OF APPLICATION
Sanitary piping systems systems acc. to IMO Res. 753 (18), Appendix 4, arranged within accomodation-, service-, control spaces, cofferdams, void spaces, pipe tunnels, ducts and further locations where fire endurance test acc. to the IMO Res. A.753 (18) is not required.

LIMITATION
The piping system is not approved for installation within tanks.

INSTALLATION
For installation the instructions of the manufacturer and IMO Res. 753 (18) are to be observed as applicable. Through watertight bulkheads and fire divisions GL type approved pipe penetrations are to be used.

Test Standard IMO Resolution A.753(18): except fire endurance, smoke generation and toxicity test.

Documents -Test report of surface low flame spread test acc. to Res. A.653(16) dated 27.04.1995
-Technical data and specifications of the CPVC pipes.

Remarks For the use on passenger vessels National Authority requirements may have to be observed.

Valid until 2010-09-26

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File No. II.C.04

Hamburg, 2005-08-11

Type Approval Symbol



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J. Schreiter

H. Markus

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".