TYPE APPROVAL CERTIFICATE

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

Certificate No.	81 180 - 95 HH		
Company	GIRPI		
	Rue Robert Ancel 76700 Harfleur, FRANCE		
Product Description	THERMOPLASTIC PIPES AND FITTINGS		
Туре	HTA System (PVC-C)		
Environmental Category	None		
Technical Data / Range of Application	TECHNICAL DATA:		
	Size Range : Nominal Pressure: Temperature range: M.A.W.P. [bar]:	16 [mm] up to 160 [mm] outside pipe diameter PN 25 / PN 16 0 [°C] up to + 80[°C] According 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 accoeding to the IMO Res. A.753 (18) is not required.		
	REMARKS: PRODUCTION PLACE, LIMITATION, INSTALLATION and REMARKS see page 2		
Test Standard	Test standard IMO Resolution A.753 (18):1993, excluding toxicity, smoke generation and fire endurance test. Test report of flame spread test according to IMO Res. A. 653(16).		
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 PVC-C pipes. -Manuel Quality Hygiene Security Environment, dated: 2012-11-15 -ISO 9001:2008, dated: 2016-12-31 -Audit Report, Valid Until: 2018-11-27 -DNV GL RefNo.: 15-064169		
Remarks	Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.		

Valid until	2020-09-26		_
Page	1 of 2	Type Approval Symbol	GL
File No.	II.C.04	.,,,	\bigcirc
Hamburg,	2016-02-02		



Olaf Drews

Peter Gierhan

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Certificate No. **81 180 - 95 HH**

PRODUCTION PLACE

GIRPI 76700 Harfleur FRANCE

LIMITATION

Approved only for installation of piping systems onboard ships which will not be exposed to vacuum inside the pipes and not exposed to external pressure outside the pipes. Not approved for installations inside tanks and tanks containing flammable liquids.

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 DNV GL type approved pipe penetrations are to be used.

REMARKS

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

 Valid until
 2020-09-26

 Page
 2 of 2

 File No.
 II.C.04

 Hamburg,
 2016-02-02

Type Approval Symbol





Olaf Drews

Peter Gierhan

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