

Type Approval Certificate



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

Certificate No. **20 857 - 04 HH**

Company **Fiber Glass Systems
Smith Fibercast Division
2700 West 65th Street
Little Rock, AR 72209, UNITED STATES**

Product Description **REINFORCED PLASTIC PIPES AND FITTINGS (FRP/GRP)**

Type **Green Thread 175 / 250, 175C / 250C**

Environmental Category **None**

Technical Data /
Range of Application **TECHNICAL DATA
Nominal Diameter DN 25 up to DN 600
Design Pressure: 12 [bar] (Green Thread 175)
18 [bar] (Green Thread 250)
M.A.W.T.: + 100°C
Electrical resistance (RTRP-FW): < 1MΩ
Joining methods: Taper / taper bonded joint, Double O-ring expansion joint,
Bell-Spigot, Flange joint and laminated joint.
RANGE OF APPLICATION
Piping systems arranged on open decks within cofferdams, void spaces, pipe
tunnels, ducts and further locations where fire endurance test according to L 3, 0
and NA as specified in the Rules I -1- 2 Machinery Installations, Sec. 11 B, Table
11.1 a is applicable.
INSTALLATION
Ref. to page 2**

Test Standard **- IMO Resolution A.753 (18): 1998, except smoke generation and toxicity test**

Documents **- Product test reports according to IMO Res. A.753(18)
- Quality Control Test Plan, Rev. D
- Work Instruction WI-QA-01
- GL work shop approval certificate KBZ 1053 HH**

Remarks **For installation on passenger vessels national regulations may have to be observed.**

Valid until **2014-08-30**

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File No. **II.C.03**

Hamburg, 2009-12-09

Germanischer Lloyd

Hanspeter Raschle
Hanspeter Raschle

Hagen Markus
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INSTALLATION

For installation of plastic piping systems the following Rules and Regulations are to be observed:

- Marine-Offshore Installation Instructions issued by Smith Fibercast
- Rules I-1-2, Machinery Installations, Section 11 B (Plastic piping systems) and Sec. 11 D (Mechanical / Gasketed Pipe Couplings).
- IMO Resolution A.753(18)

Use of mechanical / gasketed Pipe Couplings

Type approved mechanical / gasketed pipe couplings may be used only for compensation of thermal expansion and at location where a fire endurance test according to IMO Res. 753(18) is not required. The use as main means of connection is not approved. The maximum allowable nominal pressure is PN 10.

Production Places:

Fiber Glass Systems
Smith Fibercast Division
2700 West 65th Street
Little Rock, AR 72209
USA

Fiber Glass Systems (Suzhou) Co., Ltd.
Litanghe Road
Xiangcheng Economic Development Zone
Suzhou
China

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