



Lloyd's
Register

Type Approval Certificate

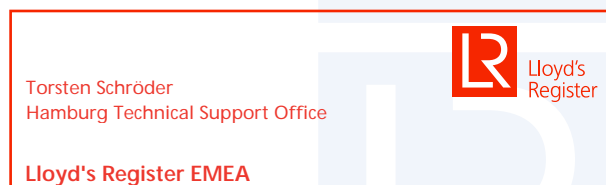
This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	GEORG FISCHER HAKAN PLASTIK BORU VE PROFIL SAN. TIC. A.S. Cerkezköy Organize sanayi Bölgesi, 3. Cadde No: 11-13 59500 Cerkezköy / Tekirdağ Turkey
DESCRIPTION	Polypropylene Random (PP-R) piping and fitting systems, as standard or glass fiber reinforced. The Assembling is done by welding.
TYPE	GF HAKAN AQUASYSTEM GF HAKAN AQUASYSTEM FASER COMPOSITE STABIL PIPE
APPLICATION	For use in non-essential piping systems, like for grey and black water, hot and cold water services, heating and air conditioning system.
STANDARD	EN ISO 15874-2 for GF HAKAN AQUASYSTEM TSE K28 Class 1/10 for GF HAKAN AQUASYSTEM FASER COMPOSITE STABIL PIPE
ADDITIONAL TEST	Rate of burning test in according to ASTM D635-06. Pipes and fittings are equivalent to Class CC2 as tested.

Certificate No.	15/20069
Issue Date	21 July 2015
Expiry Date	20 July 2020
Sheet	1 of 2

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



LR031.1.2013.12

Torsten Schröder
Hamburg Technical Support Office
Lloyd's Register EMEA

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RATINGS

	GF HAKAN AQUASYSTEM	GF HAKAN FASER AQUASYSTEM
outside diameters [mm]:	20 to 110	20 to 110
max continuous temp. [°C]:	70	70
max instantaneous temp. [°C]:	95	95
pressure rating:	PN10 & PN20	PN20

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. HTS/ENS 32992-15. and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 15/20069
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