

Page 1 of 2 Certificate No: LR22247836TA Issue Date: 22/06/2022 Expiry Date: 21/06/2027

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.

Manufacturer	Viega GmbH & Co. KG
Address	Viega Platz 1, Attendorn, 57439, Germany
Туре	Multilayer Pipe Systems
Description	Multilayer pipes and silicon bronze (radial & axial) press fittings and integral SC feature.
Trade Name	Raxofix Multilayer Pipe System
Application	For Non-essential Freshwater systems as follows: hot and cold potable water and wash water systems, cooling and heating systems of air conditioning systems (HVAC plants); Sanitary drains (internal) including condensate from air conditioning systems; Non-essential service air.
Specified Standard	ISO 21003 series "Multilayer piping systems for hot and cold water installations inside buildings", ASTM D635-06 Low Flame Spread, Lloyd's Register Rules and Regulations for Classifications of Ships, 2021.
Ratings	Multilayer pipes PE-RT/AL/PE-RT PN16: 16x2,2 (DN12); 20x2,8 (DN15); 25x2,7(DN20); 32x3,2 (DN25); 40x3,5(DN32) PN12,5: 50x4,0 (DN40); 63x4,5(DN50) External pressure test up to 4bar Flame spread characteristics to class HB (acc. ASTM D635-06) Temperature range 0°C up to 80°C by 10bar (acc. ISO 21003)

Torsten Schroeder

Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page 2 of 2 Certificate No: LR22247836TA Issue Date: 22/06/2022 Expiry Date: 21/06/2027

Type Approval Certificate

Press fittings of type Raxofix made of silicon bronze Types: Couplings, T-pieces, Bends, Adapters/-bends and connecting fittings (press fitting - screwed connection), Socket plugs, Caps

Other Conditions	Restrictions:
	Not to be used in Class A deck- and bulkhead penetrations without approved
	fire penetration.
	Integrity of watertight bulkheads to be secured by a valve.
	Non-essential service air system is to be kept segregated from essential air
	consumer.
	The use of plastic pipes may be restricted by the statutory requirements of the National Authority of the country in which the ship is to be registered.

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.

Previous Version: 12/20022(E1)-02

The Design Appraisal Document ENS 28003-12; Issue No. 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page 1 of 1 Certificate No: LR22247836TA Issue Date: 22.06.2022 Expiry Date: 21.06.2027

Appendix

PLACE OF PRODUCTION

Viega GmbH & Co. KG Zum Langen Acker 7 57439 Attendorn / Ennest Germany

Viega GmbH & Co. KG Bernrieder Strasse 12 94559 Niederwinkling Germany Becker Plastics GmbH Am Bahnhof 3 45711 Datteln Germany

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.