



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
Type	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 also with glycol for 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, 2024.
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)

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

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Only for application with water glycol mixture:
- lowest temperature: -15°C
- water glycol mixture max. 50%

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, Flanges

Other Conditions

Guidance Notes:

Pipes of dimension 40 x 3.5 mm and larger are offered as bar goods. The tubes can be bent, considering the recommended bending radius. It should be noted that pipes with dimensions $D \geq 40$ mm must be bent before installation and before pressing. Subsequent bending of the pipes on the installed press connector is not permitted.

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: LR22247836TA, (prev. 12/20022(E1)-02)

The Design Appraisal Document TSO/25/028127, (prev. ENS 28003-12; Issue No. 3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

PLACES 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