

**DICHIARAZIONE DI CONFORMITÀ - SISTEMA "TITA-FIX" PE-RT**

**RBM S.p.A.** garantisce che il Sistema, costituito dai Raccordi a Pressare/ a Stringere e dai Tubi Multistrato PE-RT/Al/PE-RT "RBM TITA-FIX" PE-RT commercializzati dalla stessa:

- 1) è idoneo all'utilizzo per installazioni di acqua calda/fredda all'interno dei fabbricati per l'adduzione di acqua destinata o meno al consumo umano (sistemi domestici) e per sistemi di riscaldamento, con pressioni e temperature di progetto secondo il prospetto di seguito riportato:

Materiale	Classi secondo la norma ISO 21003	Pressione operativa (bar)	Condizioni operative per un impiego di 50 anni alla pressione operativa	Campo applicativo
PE-RT/Al/PE-RT	1	10	- 49 anni alla Temp. operativa di 60°C - 1 anno alla Temp. MAX di 80°C - 100 ore alla Temp. di malfunzionamento di 95°C	Rifornimento acqua calda sanitaria
	2	10		Rifornimento acqua calda sanitaria
	4	6	- 25 anni alla Temp. operativa di 60°C - 20 anni alla Temp. operativa di 40°C - 2,5 anni alla Temperatura di 20°C - 2,5 anni alla Temp. MAX di 70°C - 100 ore alla Temp. di malfunzionamento di 100°C	Riscaldamento a pavimento e radiatori a bassa temperatura
	5	6	- 10 anni alla Temp. operativa di 80°C - 25 anni alla Temp. operativa di 60°C - 14 anni alla Temperatura di 20°C - 1 anno alla Temp. MAX di 90°C - 100 ore alla Temp. di malfunzionamento di 100°C	Radiatori ad alta temperatura

- 2) è conforme alle prescrizioni tecniche delle norme:

**EN ISO 21003-2** "Multilayer piping systems for hot and cold water installations inside buildings -

Part 2: Pipes";

**EN ISO 21003-3** "Multilayer piping systems for hot and cold water installations inside buildings -

Part 3: Fittings";

**EN ISO 21003-5** "Multilayer piping systems for hot and cold water installations inside buildings -

Part 5: Fitness for purpose of the system";

**ISO 10508** "Plastics piping systems for hot and cold water installations - Guidance for classification and design".



3) Certificazioni ottenute / test report:

a) Tubo Multistrato "RBM TITA-FIX" PE-RT

<b>Eurofins Dispositifs au Contact de l'Eau France</b>	Attestation de Conformite Sanitaire (ACS) Certificate of sanitary conformity DGS/VS4 n°99/217 du avril 1999 et DSG/VS4 n°2000/232 du 27 avril 2000 – <b>23 MAT NY 126</b>
<b>POLITECNICO DI MILANO</b>	D.M. n°174 del 06.04.2004 D.M. n°43 del 21.03.1973 Report n. <b>128/09</b>
<b>NASTAVNI ZAVOD ZA JAVNO ZDRAVSTVO Dr. Andrija Stampar</b>	Art.37 Regulation on health safety of objects and materials in direct contact with food (O.G. 125/09, O.G. 31/11) connection with art. 4 of Annex I tb.3 and 4 of the Regulation on the parameters of compliance, methods of analysis, monitoring and safety plans for water for human consumption and the manner of keeping a register of legal entities engaged in the public water supply activity (O.G. 125/2017), due to Article 4 of the Act General Use Items (O.G. 39/13, 47/14,114/18) and Art. 7 pt. 4 of the of the Water Consumption Act (O.G.56/13,14/14,64/15,104/17,115/18). Report n. <b>05401 01193/19</b>
<b>NATIONAL INSTITUTE OF PUBLIC HEALT – NATIONAL INSTITUTE OF HYGIENE (PZH)</b>	Hygienic certificate n. <b>B-BK-60210-1299/20.</b>
<b>SKZ – Testing GmbH</b>	Certificate n. <b>A 620.</b>
<b>RUE "STROYTECHNORM"</b>	Certificate n. <b>TC 01.4740.23.</b>

b) Raccordo a pressare per tubo multistrato

<b>Eurofins Dispositifs au Contact de l'Eau France</b>	Attestation de Conformite Sanitaire (ACS) Certificate of sanitary conformity DGS/SD7A N 571– <b>19 ACC NY 192</b>
<b>NASTAVNI ZAVOD ZA JAVNO ZDRAVSTVO Dr. Andrija Stampar</b>	Art.20 Regulation on health safety of objects and materials in direct contact with food (O.G. 125/09, O.G. 31/11) connection with art. 4 of Annex I tb.3 and 4 of the Regulation on the parameters of compliance, methods of analysis, monitoring and safety plans for water for human consumption and the manner of keeping a register of legal entities engaged in the public water supply activity (O.G. 125/2017), due to Article 4 of the Act General Use Items (O.G. 39/13, 47/14,114/18) and Art. 7 pt. 4 of the of the Water Consumption Act (O.G. 56/13, 14/14, 64/15,104/17,115/18) the sample is considered to be safe. Report n. <b>05401 01195/19.</b>
<b>NATIONAL INSTITUTE OF PUBLIC HEALT – NATIONAL INSTITUTE OF HYGIENE (PZH)</b>	Hygienic certificate n. <b>B-BK-60210-1295/20.</b>
<b>Centre Scientifique et Technique du Bâtiment (CSTB)</b>	Certificate n. <b>145-1980.</b>
<b>RUE "STROYTECHNORM"</b>	Certificate n. <b>TC 01.4740.23.</b>

c) Raccordo a stringere per tubo multistrato

<b>Eurofins Dispositifs au Contact de l'Eau France</b>	Attestation de Conformite Sanitaire (ACS) DGS/SD7A N 571- <b>20 ACC NY 009</b>
<b>NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE (PZH)</b>	Hygienic certificate n. <b>B-BK-60210-1293/20.</b>
<b>Centre Scientifique et Technique du Bâtiment (CSTB)</b>	Certificate n. <b>145-1980.</b>
<b>RUE "STROYTECHNORM"</b>	Certificate n. <b>TC 01.4740.23.</b>

In caso di installazione di Sistemi costituiti da Raccordi o Tubi **non commercializzati da RBM**:

1. Si raccomanda che gli stessi siano compatibili con la seguente tabella dimensionale

DN	Diametro esterno medio consentito (valori in mm)	Spessore consentito (valori in mm)	Ovalizzazione consentita
14x2.0	14,00 ÷ 14,25 mm	2,0 ÷ 2,25	0,60
16x2.0	16,00 ÷ 16,25 mm	2,0 ÷ 2,25	0,60
18x2.0	18,00 ÷ 18,25 mm	2,0 ÷ 2,25	0,60
20x2.0	20,00 ÷ 20,25 mm	2,0 ÷ 2,25	0,60
26x3.0	26,00 ÷ 26,25 mm	2,0 ÷ 3,25	0,60
32x3.0	32,00 ÷ 32,30 mm	2,0 ÷ 3,30	0,60

2. **è responsabilità unica del cliente garantire la conformità e la tenuta del sistema all'utilizzo nelle condizioni operative sopra riportate.**

RBM S.p.A.

Nave (BS), 12/12/2023

(firma):



**DECLARATION OF CONFORMITY - PE-RT 'TITA-FIX' SYSTEM**

**RBM S.p.A.** guarantees that the System, consisting of Press/Compression Fittings and Multilayer PE-RT/Al/PE-RT Pipes "RBM TITA-FIX' PE-RT marketed by the same:

- 1) It is suitable for use for hot/cold water installations inside buildings for the supply of water whether or not intended for human consumption (domestic systems) and for heating systems, with design pressures and temperatures according to the table below:

Material	Classes according to ISO 21003	Operating pressure (bar)	Operating conditions for 50 years of use at operating pressure	Field of application
PE-RT/Al/PE-RT	1	10	- 49 years at an operating temperature of 60°C - 1 year at MAX Temp. of 80°C - 100 hours at a malfunction temperature of 95°C	Domestic hot water supply
	2	10		Domestic hot water supply
	4	6	- 25 years at an operating temperature of 60°C - 20 years at an operating temperature of 40°C - 2.5 years at 20°C - 2.5 years at MAX Temp. of 70°C - 100 hours at a malfunction temperature of 100°C	Low temperature underfloor heating and radiators
	5	6	- 10 years at an operating temperature of 80°C - 25 years at an operating temperature of 60°C - 14 years at a temperature of 20°C - 1 year at MAX Temp. of 90°C - 100 hours at a malfunction temperature of 100°C	High-temperature radiators

- 2) complies with the technical requirements of the standards:  
**EN ISO 21003-2** "Multilayer piping systems for hot and cold water installations inside buildings - Part 2: Pipes";  
**EN ISO 21003-3** "Multilayer piping systems for hot and cold water installations inside buildings - Part 3: Fittings";  
**EN ISO 21003-5** "Multilayer piping systems for hot and cold water installations inside buildings - Part 5: Fitness for purpose of the system";  
**ISO 10508** "Plastics piping systems for hot and cold water installations - Guidance for classification and design".



3) Certifications obtained / test reports:

a) "RBM TITA-FIX" PE-RT Multilayer Pipe

<b>Eurofins Dispositifs au Contact de l'Eau France</b>	Attestation de Conformite Sanitaire (ACS) Certificate of sanitary conformity DGS/VS4 n°99/217 du avril 1999 et DSG/VS4 n°2000/232 du 27 avril 2000 – <b>23 MAT NY 126</b>
<b>POLITECNICO DI MILANO</b>	Ministerial Decree No. 174 of 06.04.2004 Ministerial Decree No. 43 of 21.03.1973 Report no. <b>128/09</b>
<b>NASTAVNI ZAVOD ZA JAVNO ZDRAVSTVO Dr. Andrija Stampar</b>	Art.37 Regulation on health safety of objects and materials in direct contact with food (O.G. 125/09, O.G. 31/11) connection with art. 4 of Annex I tb.3 and 4 of the Regulation on the parameters of compliance, methods of analysis, monitoring and safety plans for water for human consumption and the manner of keeping a register of legal entities engaged in the public water supply activity (O.G. 125/2017), due to Article 4 of the General Use Items Act (O.G. 39/13, 47/14,114/18) and Art. 7 pt. 4 of the Water Consumption Act (O.G.56/13,14/14,64/15,104/17,115/18). Report no. <b>05401 01193/19</b>
<b>NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE (PZH)</b>	Hygienic certificate no. <b>B-BK-60210-1299/20.</b>
<b>SKZ - Testing GmbH</b>	Certificate No. <b>A 620.</b>
<b>RUE "STROYTECHNORM"</b>	Certificate No. <b>TC 01.4740.23.</b>

b) Press fitting for multilayer pipe

<b>Eurofins Dispositifs au Contact de l'Eau France</b>	Attestation de Conformite Sanitaire (ACS) Certificate of sanitary conformity DGS/SD7A N 571– <b>19 ACC NY 192</b>
<b>NASTAVNI ZAVOD ZA JAVNO ZDRAVSTVO Dr. Andrija Stampar</b>	Art.20 Regulation on health safety of objects and materials in direct contact with food (O.G. 125/09, O.G. 31/11) connection with art. 4 of Annex I tb.3 and 4 of the Regulation on the parameters of compliance, methods of analysis, monitoring and safety plans for water for human consumption and the manner of keeping a register of legal entities engaged in the public water supply activity (O.G. 125/2017), due to Article 4 of the General Use Items Act (O.G. 39/13, 47/14,114/18) and Art. 7 pt. 4 of the Water Consumption Act (O.G. 56/13, 14/14, 64/15,104/17,115/18) the sample is considered to be safe. Report no. <b>05401 01195/19.</b>
<b>NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE (PZH)</b>	Hygienic certificate no. <b>B-BK-60210-1295/20.</b>
<b>Centre Scientifique et Technique du Bâtiment (CSTB)</b>	Certificate No. <b>145-1980.</b>
<b>RUE "STROYTECHNORM"</b>	Certificate No. <b>TC 01.4740.23.</b>



c) Compression fitting for multilayer pipe

<b>Eurofins Dispositifs au Contact de l'Eau France</b>	Attestation de Conformite Sanitaire (ACS) DGS/SD7A N 571– <b>20 ACC NY 009</b>
<b>NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE (PZH)</b>	Hygienic certificate no. <b>B-BK-60210-1293/20.</b>
<b>Centre Scientifique et Technique du Bâtiment (CSTB)</b>	Certificate No. <b>145-1980.</b>
<b>RUE “STROYTECHNORM”</b>	Certificate No. <b>TC 01.4740.23.</b>

When installing Systems consisting of Fittings or Pipes **not marketed by RBM**:

1. It is recommended that they be compatible with the following size chart

DN	Average permissible outside diameter (values in mm)	Permissible thickness (values in mm)	Permissible ovalisation
14x2.0	14,00 - 14,25 mm	2,0 -2,25	0,60
16x2.0	16,00 - 16,25 mm	2,0 -2,25	0,60
18x2.0	18,00 - 18,25 mm	2,0 -2,25	0,60
20x2.0	20,00 - 20,25 mm	2,0 -2,25	0,60
26x3.0	26,00 - 26,25 mm	2,0 -3,25	0,60
32x3.0	32,00 - 32,30 mm	2,0 -3,30	0,60

2. **it is the sole responsibility of the customer to ensure that the system is compliant and fit for use under the operating conditions above.**

RBM S.p.A.

Nave (BS), 12/12/2023

(signature):

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