

1. Unique identification code of the product type: **r.Spiro® A – pipe sections out of mineral wool covered with reinforced ALU foil**
2. Intended use/uses: **ThIBEII - Thermal insulation for building equipment and industrial installations**
3. Manufacturer: **ROHHE® Sp. z o.o., 05-555 Tarczyn, Al. Krakowska 19A, rohhe.pl**
4. System of Assessment and Verification of Constancy of Performance: **System 1**
5. Harmonized standard: **EN 14303:2009+A1:2013**  
Notified body: **Nr 1454 - Instytut Mechanizacji Budownictwa i Górnictwa Skalnego**
6. Declared performance: **Table 1 and Table 2, MW-EN 14303-T8/T9-ST(+ )300-WS1-MV2-CL10**

**Tabela 1 - Harmonized technical specification acc. EN 14303:2009+A1:2013**

Essential characteristic	Performance	Declared class / level	Value
Reaction to fire	Reaction to fire class	<b>A2L-s1,d0</b>	Incombustible
Thermal resistance	Thermal conductivity	<b>see Table 2</b>	
Dimensions and tolerances	Thickness tolerance (Do<150 mm)	<b>T8</b>	-5% or -3mm/+5% or +3mm
	Thickness tolerance (Do≥150 mm)	<b>T9</b>	-6% or -5mm/+6% or +5mm
	Intern. diam. tolerance (Do<150 mm)	-	- 0 mm / + 4 mm
	Intern. diam. tolerance (Do≥150 mm)	-	- 0 / +2% or + 5 mm
	Length tolerance	-	± 5 mm
	Constancy of thickness	-	difference < 6 mm lub 10 %
	Rectangulity	-	± 4mm or ± 2% ext. diam.
Service temperature	Maximum service temperature	<b>ST(+ )300</b>	300 °C
Water vapour diffusion resistance	Short-term water absorption	<b>WS1</b>	≤ 1 kg/m <sup>2</sup>
Water permeability	Diffusion resistance of water vapour	<b>MV2</b>	sd ≥ 200 m
Compressive strength	Compressive stress or compressive strength	<b>NPD</b>	
Value of dangerous substances released	Trace amounts of soluble joins and pH-value	<b>CL10</b>	≤ 10 ppm (10 mg/1 kg)
Release of dangerous substances to environment	Release of dangerous substances	<b>NPD</b>	
Sound absorption coefficient	Sound absorption	<b>NPD</b>	
Continuous glowing combustion	Continuous glowing combustion	<b>NPD</b>	
Durability of thermal resistance against ageing/degradation	Durability of thermal resistance	<b>Not change with time</b>	
Durability of thermal resistance against high temperature	Durability of thermal resistance	<b>Not change with time</b>	
Durability of reaction to fire against ageing/degradation	Durability of reaction to fire	<b>Not change with time</b>	
Durability of reaction to fire against high temperature	Durability of reaction to fire	<b>Not change with time</b>	

**Table 2 – Declared thermal conductivity - λ<sub>D</sub>**

t <sub>sr</sub> [°C]	10	40	100	200	300
λ <sub>D</sub> [W/m·K]	<b>0,035</b>	<b>0,040</b>	<b>0,054</b>	<b>0,072</b>	<b>0,095</b>

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



**Michał Kalinowski**  
President of the board

Tarczyn, 3 October 2019

**ROHHE® Sp. z o.o.**

05-555 Tarczyn, Al. Krakowska 19A  
tel. +48 22 299 88 33, biuro@rohhe.pl, fax +48 22 299 88 34