

DECLARATION OF PERFORMANCE No 0658

1. Unique identification code of the product-type: **KLIMAEXPERT**
2. Intended use/es: **External Thermal Insulation Composite System with rendering (ETICS).**
3. Manufacturer: **Kerakoll Polska sp. z o.o., ul. Katowicka 128, 95-030 Rzgów**
4. System/s of AVCP:
System 2+
5. European Assessment Document: **EAD 040083-00-0404, January 2019**
European Technical Assessment : **ETA-24/0381 of 29/05/2024**
Technical Assessment Body: **Łukasiewicz - ICiMB**
Notified body/ies: **Instytut Techniki Budowlanej n°1488**

6. Declared performance/s:

- Safety in case of fire (BWR 2)

Essential characteristics	Performance
Reaction to fire	
- Reaction to fire of ETICS	B – s1, d0
- Reaction to fire of thermal insulation material	Euroclass E
Facade fire performance	NPA
Propensity to undergo continuous smouldering of ETICS	NPA

- Hygiene, health and the environment (BWR 3)

Essential characteristics	Performance	
Content, emission and/or release of dangerous substances – leachable substances	NPA	
Water absorption of the base coat		
	after 1 h	after 24 h
<i>Klima U</i>	0,4 Kg/m ²	0,8 Kg/m ²
Water absorption of the rendering system		
	after 1 h	after 24 h
<i>Excence Tynk Mineralny</i>	0,4 Kg/m ²	0,8 Kg/m ²
<i>Excence Tynk Sisi</i>	0,1 Kg/m ²	0,7 Kg/m ²
<i>Excence Tynk Silikonowy</i>	0,1 Kg/m ²	0,6 Kg/m ²
<i>Excence Tynk Akrylowy</i>	0,2 Kg/m ²	0,7 Kg/m ²
Water absorption of the thermal insulation product	$W_{ip} \leq 1 \text{ kg/m}^2$	
Hygrothermal behaviour	satisfied	
Freeze thaw performance	satisfied	
Impact resistance tested on the rig	category III	

Essential characteristics	Performance
Impact resistance not tested on the rig	category III / II
Water vapour permeability of the rendering system	
- Excence Tynk Mineralny	
<i>Excence Farba Silikonowa</i>	S _D 0.3
<i>Excence Farba Sisi</i>	S _D 0.5
<i>Excence Farba Akrylowa</i>	S _D 0.3
- Excence Tynk Sisi	
<i>Excence Farba Sisi</i>	S _D 0.4
- Excence Tynk Silikonowy	
<i>Excence Farba Silikonowa</i>	S _D 0.4
- Excence Tynk Akrylowy	
<i>Excence Farba Silikonowa</i>	S _D 0.2
Water vapour permeability of the thermal insulation product	20-40 μ

- Safety and accessibility in use (BWR 4)

Essential characteristics	Performance	
	Mean value (kPa)	Min. value (kPa)
Bond strength between base coat and insulation product _ Klima U (* cohesive rupture in insulation)		
<i>Initial state</i>	115*	108
<i>Hygrothermal cycles (from the rig)</i>	110*	107
<i>Freeze-thaw cycles</i>	112*	106
Bond strength between adhesive and substrate _ Klima U (*adhesive rupture)		
<i>Initial state</i>	962*	853
<i>48h immersion in water + 2 h 23°C/50% RH</i>	204*	130
<i>48h immersion in water + 7 days 23°C/50% RH</i>	1468*	1078
Bond strength between adhesive and substrate _ Klima S (*adhesive rupture)		
<i>Initial state</i>	998*	998
<i>48h immersion in water + 2 h 23°C/50% RH</i>	216*	132
<i>48h immersion in water + 7 days 23°C/50% RH</i>	1530*	1384
Bond strength between adhesive and thermal insulation product _ Klima U (* cohesive rupture in insulation; ** adhesive rupture)		
<i>Initial state</i>	109*	97
<i>48h immersion in water + 2 h 23°C/50% RH</i>	106*	99
<i>48h immersion in water + 7 days 23°C/50% RH</i>	119*	111
Bond strength between adhesive and thermal insulation product _ Klima S (* cohesive rupture in insulation; ** adhesive rupture)		
<i>Initial state</i>	116*	110
<i>48h immersion in water + 2 h 23°C/50% RH</i>	100**	92
<i>48h immersion in water + 7 days 23°C/50% RH</i>	117**	110

Essential characteristics	Performance
Tensile strenght_EN 1607 (dry conditions)	≥ 80 kPa
Shear strenght (EN 12090)	≥ 20 kPa
Shear Modulus (EN 12090)	≥ 1000 kPa
Render strip tensile test	NPA
Bond strenght after ageing of finishing coat tested on the rig (* cohesive rupture in insulation)	
<i>Excence Tynk Mineralny</i>	109* kN/m ²
Bond strenght after ageing of finishing coat not tested on the rig (* cohesive rupture in insulation)	
<i>Excence Tynk Sisi</i>	116* kN/m ²
<i>Excence Tynk Mineralny</i>	118* kN/m ²
<i>Excence Tynk Akrylowy</i>	118* kN/m ²

- Protection against noise (BWR 5)

Essential characteristics	Performance
Airborne sound insulation of ETICS	NPA
Dynamic stiffness of the thermal insulation product	NPA
Air flow resistance of the thermal insulation product	NPA

- Energy economy and Heat retention (BWR 6)

Essential characteristics	Performance
Therma resistance and thermal transmittance of ETICS	
R_{ETICS} with minimun thickness of EPS*	1.131 (m ² *K)/W
R_{ETICS} with maximum thickness of EPS*	5.576 (m ² *K)/W

*At maximum value of thermal conductivity 0.045 W/(m*K)

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: **Jacek Szczycinski** (legal representative)

Jacek Szycki

At Rzgów, on 29/07/2024