



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**  
**Technical and Test Institute for Construction Prague, SOE**

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán • Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body • Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

**Branch 0300 – Pilsen**

# CERTIFICATE

**No. 030 – 057 984**

## About the qualities of a product

**Certified quality:** Properties according to the following test procedures:

- EN ISO 10545-2:1998: Ceramic tiles – Part 2: Determination of dimensions and surface quality
- EN ISO 10545-3:2018: Ceramic tiles – Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density
- EN ISO 10545-4:2014: Ceramic tiles – Part 4: Determination of modulus of rupture and breaking strength
- EN ISO 10545-7:2000: Ceramic tiles – Part 7: Determination of resistance to surface abrasion for glazed tiles
- EN ISO 10545-9:2013: Ceramic tiles – Part 9: Determination of resistance to thermal shock
- EN ISO 10545-12:2002: Ceramic tiles – Part 12: Determination of frost resistance
- PCEN/TS 16165 2013: Determination of slip resistance of pedestrian surfaces
- EN ISO 10545-13: 2002: Ceramic tiles – Part 13: Determination of chemical resistance
- EN ISO 10545-14: 2016: Ceramic tiles – Part 14: Determination of resistance to stains

**Product:** Ceramic tiles declaration: EN 14411:2017 ed. 3, dry-pressed Group B1a, Annex G  
**Producer:** PAO "ZKI" Závod keramičeských izdelij", Okružnaja 1, Ekaterinburg 620103, Russian Federation  
**Order:** Z030 18 0435  
**Achieved values:**

Main characteristics	Properties	EN 14 411 ed.3: 2017
Reaction to fire	class A1 <sub>n</sub>	without testing (decision 96/603 ES)
Water absorption	0,3 %	max. 0,5%
Breaking strength	3000 N	min. 1300 N
Modulus of rupture	58 MPa	min. 35 MPa
Determination of resistance to thermal shock	product resistant	product resistant
Determination of frost resistance	product resistant	product resistant (100 cycles -5°C, +5°C)
Resistance to surface abrasion	according to the declaration	according to the declaration
Slip resistance	according to the declaration	according to the declaration
Chemical resistance	A class	min. B class
Resistance to stains	5. class	min. 3. class

The certificate is issued on the basis of the results of the tests stated in report no. 030-057982 from 7<sup>th</sup> February 2019.

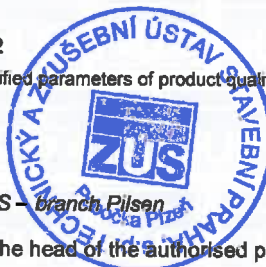
Number of pages of certificate: 1

Certificate validity: till 28<sup>th</sup> February 2022

The certificate can be cancelled upon finding non-adherence to the certified parameters of product qualities.

Pilsen 7<sup>th</sup> February 2019

Stamp of TZUS – branch Pilsen



**Ing. Alexander Trinner**  
Branch Director

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