EN-Declaration of Performance
Nr. soapstonetiles and mosaic products 20221227

Product type:	TK-226P, TK-226PM, TK-228T, TK-228TM, TK-236PM, TK-236TM, TK-237N, TK-240NM, TK-240PM, TK-243, TK-244, TK-2451F, TK-280, TK-281, TK-282, TK-291TS, TK-292TXS, TK-618TL, TK-633
Intented use:	Natural stone tiles for cladding, modular tiles, floor wall and stair tiles
Manufacturer:	Tulikivi Oyj, Kuhnustantie 10, FI-83900, Juuka, Finland

Verification of constancy of performance: Internal Quality Control (ISO 9001:2015). Verification is based AVCP/Class 4, using standard tests done by Centro Tecnológico del Mármol, Ctra. de Murcia s/n. 30430 Cehegín (Murcia), Spain

Declared performance:

• Water absorption	Report 222918N003	EN 13755:2008
o Mean value of water absorption		0,1 %
• Apparent density and open porosity	Report 222918PN004A	EN 1963:2007
o Mean value of apparent density		3140 kg/m^3
o Mean value of open porosity		0,2 %
• Abrasion resistance	Report 222918N006	EN 14157:2017
o Mean value of groove length		36,5 mm
o Standard deviation		2,3 mm
o Higher expected value		42,0 mm
• Frost resistance	Report 22918PN008B	EN 12371:2010
o Mean value of flexural strength		13,3 MPa
o Standard deviation		6,2 MPa
o Mean value of flexural strength after 56 cycles		13,1 MPa
o Standard deviation		5,2 MPa
o Decrease of flexural strength after 56 cycles		2,0 %
• Frost resistance	Report 222918N008D	EN 12371:2010
o Mean value of compressive strength		30 MPa
o Standard deviation		7 MPa
o Mean value of compressive strength after 56 cycles		27 MPa
o Standard deviation		8 MPa
o Decrease of compressive strength after 56 cycles		10,0 %
• Compressive strength	Report 222918PN009A	EN 1926:2006
o Average compressive strength		30 MPa
o Standard deviation		7 MPa
o Coefficient of variation		0,23
o Lower expected value		18 MPa
• Flexural strength	Report 222918PN010	EN 12372:2006
o Average flexural strength		13,3 MPa
o Standard deviation		6,2 MPa
o Lower expected value		3,5 MPa
• Breaking load at dowel hole	Report 222918PN012A	EN 13364:2001
o Mean value of breaking load		1300 N
o Standard deviation		400 N
o Lower expected value		634 N
o Mean value of breaking thickness		9,8 mm
o Mean value of maximum fracture lengths		54,5 mm

• **Slip resistance**	**Report 222918 PN020A**	**EN 14231:2003**
○ Average slip resistance (SRV "dry")		64 uncertainty ± 4
○ Average slip resistance (SRV "wet")		38 uncertainty ± 3
• **Slip resistance (slipperiness)**	**Report 222918PN020J**	**EN 16165:2021**
○ Slipperiness measured towards 0°		dry 65, wet 40
○ Slipperiness measured towards 90°		dry 64, wet 41
○ Slipperiness measured towards 45°		dry 65, wet 40
○ Value of the slipperiness		dry 64, wet 40
○ Uncertainty		dry ±4, wet ±1

The performance of the product is in conformity with the above declared performance.
The declaration of performance is issued under the sole responsibility of the manufacturer.

Heikki Vauhkonen, Toimitusjohtaja
Juuka, 27.12.2022