



# CERTIFICATE OF CONSTANCY OF PERFORMANCE

<b>Product</b>	dry-pressed ceramic tiles
<b>Type</b>	group BIII ( $E_b > 10\%$ ), glazed tiles for internal walls; group BIa ( $E_b \leq 0,5\%$ ), glazed and undglazed tiles for internal and external floorings
<b>Intended use(s)</b>	for internal walls, for internal and external floorings
<b>Product parameters</b>	see annexes 1, 2
<b>Manufacturer</b>	OAO "Keramin", str. Serova 22, 220024 Minsk, Republic of Belarus
<b>Manufacturing plant(s)</b>	OAO "Keramin", str. Serova 22, 220024 Minsk, Republic of Belarus
<b>Requirements</b>	LST EN 14411:2013

This certificate is issued having performed actions prescribed for system 1+ in STR 1.01.04:2013 and confirms that the product complies with requirements set out in this certificate.

<b>Number</b>	SPSC-7715B
<b>Date of issue</b>	2015-01-21 (2005-12-15)
<b>Valid until</b>	2018-01-20 (information <a href="http://www.spsc.lt">www.spsc.lt</a> )
<b>Granted to</b>	OAO "Keramin", str. Serova 22, 220024 Minsk, Republic of Belarus, company code 100297103

Director

Robertas Encius

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## ANNEX 1 TO CERTIFICATE No. SPSC-7715B

Issued 2015-01-21

**Product** dry-pressed ceramic tiles  
**Type** group BIII ( $E_b > 10\%$ ), glazed tiles for internal walls

### Product parameters:

Characteristics	Test method	Unit of measure	Declared value
Maximum dimensional deviations: - of the average length and width, - of the average thickness, - from straightness, - from rectangularity, - from surface flatness	LST EN ISO 10545-2	mm, %	pass (LST EN 14411:2013 Annex K)
Water absorption $E_b$ : - average, - individual minimum	LST EN ISO 10545-3	% %	> 10 9
Breaking strength: - thickness $\geq 7,5$ mm, - thickness < 7,5 mm	LST EN ISO 10545-4	N	$\geq 600$ $\geq 200$
Flexural tensile strength	LST EN ISO 10545-4	N/mm <sup>2</sup>	$\geq 12$
Crazing resistance	LST EN ISO 10545-11	-	pass
Thermal shock resistance	LST EN ISO 10545-9	-	pass
Frost resistance	LST EN ISO 10545-12	-	NPD
Resistance to staining (affected by Cr <sub>2</sub> O <sub>3</sub> , solution iodine, olive oil)	LST EN ISO 10545-14	class	$\geq 3$
Resistance to household chemicals and swimming pool salts (NH <sub>4</sub> Cl, NaOCl)	LST EN ISO 10545-13	class	minimum GB

Director



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## ANNEX 2 TO CERTIFICATE No. SPSC-7715B

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**Product** dry-pressed ceramic tiles**Type** group BI<sub>a</sub> ( $E_b \leq 0,5\%$ ), glazed and unglazed tiles for internal and external floorings**Product parameters:**

Characteristics	Test method	Unit of measure	Declared value
Maximum dimensional deviations: - of the average length and width, - of the average thickness, - from straightness, - from rectangularity, - from surface flatness	LST EN ISO 10545-2	mm, %	pass (LST EN 14411:2013 Annex G)
Water absorption $E_w$ , individual maximum	LST EN ISO 10545-3	% %	$\leq 0,5$ 0,6
Breaking strength: - thickness $\geq 7,5$ mm, - thickness $< 7,5$ mm	LST EN ISO 10545-4	N	$\geq 1300$ $\geq 700$
Flexural tensile strength, individual minimum	LST EN ISO 10545-4	N/mm <sup>2</sup>	$\geq 35$ $\geq 32$
Resistant to surface abrasion of glazed tiles	LST EN ISO 10545-7	class cycles	$\geq 2$ 600
Resistant to deep abrasion of unglazed tiles (removed volume)	LST EN ISO 10545-6	mm <sup>3</sup>	$\leq 175$
Crazing resistance of glazed tiles	LST EN ISO 10545-11	-	pass
Thermal shock resistance	LST EN ISO 10545-9	-	NPD
Frost resistance	LST EN ISO 10545-12	100 cycles	pass
Resistance to staining (affected by Cr <sub>2</sub> O <sub>3</sub> , solution iodine, olive oil)	LST EN ISO 10545-14	class	$\geq 3$
Resistance to household chemicals and swimming pool salts (NH <sub>4</sub> Cl, NaOCl)	LST EN ISO 10545-13	class	minimum B
Release of cadmium, lead from glazed tiles	LST EN ISO 10545-15	mg/dm <sup>3</sup>	NPD

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