® TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Construction Prague, SOE
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Authorised Body No. 204 empowered by the Decision of the ÚNMZ No. 5/2017

Branch 0300 – Plzen

REPORT

of the check on product conformity

according to the Article 7 of the Government Decree No. 163/2002 Coll., as amended by Government Decree No. 312/2005 Coll. and by the Government Decree No. 215/2016 Coll.

No. 030-068919

Trade name:

Glass mosaic for internal and external wall finishes

Applicant:

Preciosa Ornela, a. s.

Business ID:	28712226
Address:	Zásada 317, 468 25 Zásada, Czech Republic
Manufacturer:	Preciosa Ornela, a. s.
Address:	Zásada 317, 468 25 Zásada, Czech Republic
Order No:	Z030250195

Number of pages including the front page: 5 Number of Annexes: 15
Report validity: : 30th September 2028

The person taking responsibility for the content of this report:

Mgr. Pavla Babková
Head Assessor

The person taking responsibility for correctness of this report:

Signature and seal of Authorised entity No. 204

Bc. Luboš Hausner
Deputy Manager of Authorised Body No. 204

Plzen, on 15th September 2025

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1. General

1.1. Information about the manufacturer

- Preciosa Ornela, a. s.., Zásada 317, 468 25 Zásada, Czech Republic
- IČO: 28712226

1.2. Information about the product and its intended use

- Glass mosaic for wall tiling inside and outside buildings (E ≤ 0.5%)
- The product is suitable for wall tiling (minimum hardness grade 3) inside and outside buildings.
- Pursuant to Government Decree No. 163/2002 Coll., as amended, the product has been classified under Annex No. 2 into product group 11.4.

1.3. List of documentation submitted by the manufacturer to the conformity checking

- application for the performance of activities of an authorized body – product type conformity verification pursuant to Section 7 of Government Decree No. 163/2002 Coll., as amended
- technical documentation within the scope of Section 4(3)(a) and (c)

1.4. List of the other documentation used during the product conformity checking

- Act No. 22/1997 Coll., On Technical Requirements for Products and on Amendments to Certain Acts, as amended
- Government Regulation No. 163/2002 Coll., Which lays down technical requirements for selected construction products, as amended
- Decree No. 422/2016 Coll., On radiation protection and security of a radionuclide source
- ČSN EN ISO 10545-2 Ceramic tiles. Part 2: Determination of dimensions and surface quality
- ČSN EN ISO 10545-3 Ceramic tiles. Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density,
- ČSN EN ISO 10545-8 Ceramic tiles. Part 8: Determination of linear thermal expansion
- ČSN EN ISO 10545-11Ceramic tiles. Part 11: Determination of crazing resistance for glaze tiles
- ČSN EN ISO 10545-13 Ceramic tiles. Part 13: Determination of chemical resistance,
- ČSN EN ISO 10545-14 Ceramic tiles. Part 14: Determination of resistance to stains
- ČSN EN ISO 10 545 – 15 Ceramic tiles. Part 15: Determination of lead and cadmium given off by glazed tiles
- ČSN 72 5126 Ceramic tiles - Determination of surface hardness according to Mohs
- ČSN EN 1183 Materials and articles in contact with foodstuffs - Test methods for thermal shock and thermal shock endurance
- TN 11.04.06 Ceramic tiles wall

1.5. Technical specification and technical regulations relating to the product conformity checking

- Technical Building Approval No. 030-068918 dated 15 September 2025, issued by the Technical and Test Institute for Construction Prague, s.p. – Plzeň Branch, valid until 30 September 2028.

1.6. Information about previous product conformity checking

The glass mosaic has not yet been evaluated by an authorized body.

2. Product assessment

2.1. Technical requirements

The product was assessed in accordance with Technical Building Approval No. 030 – 068918 with respect to the properties listed in Section 2.3 of this report.

2.2. List of the Test Reports:

- Test report No. 030-068917, 030-068022, issued by the Technical and Test Institute for Construction Prague, s.p. – Plzeň Branch – Testing Laboratory, dated 5 September 2025 and 19 February 2025.
- Test report of content of natural radioactive nuclides in construction prepared by TZÚS s.p., Praha branch Teplice No. 040-081716
- Test Report No. 41/2025 prepared by IKATES, s.r.o., Laboratory for Glass and Building Products Testing, Tolstého 186, 415 03 Teplice

2.3. Evaluation of the results of the product tests and assessment

Property	Test Report	Test procedure	Test results	Required/declared level	Evaluation
1	2	3	4	5	6
Geometric parameters	030-068917	ČSN EN ISO 10545-2	0,1 0,4 0,1	Deviation of the average edge length of the mosaic piece from the declared size: ±0.5 mm Deviation of the average edge width of the mosaic piece from the declared size: ±0.5 mm Deviation of the average thickness of the mosaic piece from the declared size: ±0.3 mm%	Pass
Geometric parameters (of the sheet)	030-068917	ČSN EN ISO 10545-2	-1,1 -0,8 1,5-2,4	Deviation of the average edge length from the declared size: ±1.2 mm (10 samples) Deviation of the average edge width from the declared size: ±1.2 mm (10 samples) Joint width: ±1.0 mm	Pass
Surface quality	030-068917	ČSN EN ISO 10545-2	without visible defects	A minimum of 95 % of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles	Pass
Water absorption	030-068917	ČSN EN ISO 10545-3	according to the declaration	average ≤ 0,5 %, individual max. 0,6 % 0,5%< average ≤ 3,0%, individual max. 3,3%	Pass

TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p. Autorizovaná osoba 204

Coefficient of linear thermal expansion	030-068917	ČSN EN ISO 10545-8	8,2 $\times 10^{-6}$ K^{-1}	max. 9 $\times 10^{-6}$ K^{-1}	Pass
Crazing resistance	030-068917	ČSN EN ISO 10545-11	without changes	No visible changes	Pass
Frost resistance	030-068917	ČSN EN ISO 10545-12	without changes	No visible alterations, complies with 100 freeze-thaw cycles under the following conditions: Grouted, mosaic sheets bonded to the substrate board (as to be used in the structure). 15 minutes at a temperature of -5°C and 15 minutes at a temperature of +5°C.	Pass
Chemical resistance	030-068917	ČSN EN ISO 10545-13	Class A	min. class B	Pass
Resistance to stains	030-068917	ČSN EN ISO 10545-14	Class 5	no visible changes	Pass
Lead and cadmium given off	030-068022	ČSN EN ISO 10545–15	0,0205 mg/dm² 0,0096 mg/dm²	volume Pb: max. 0,8 mg/dm² volume Cd: max. 0,07 mg/dm²	Pass
Scratch hardness of surface according to Mohs	030-068917	ČSN 72 5126	6	scratch min. 3. degree	Pass
Thermal shock resistance (glass surfaces)	41/2025	ČSN EN 1183	0 cracked samples up to a temperature difference of Δ 50 °C	No visible alterations up to a temperature difference of Δ 50 °C	Pass
Radioactivity[1)]	040-081716	SÚJB recommendation	0,80 ±0,11	regulation SÚJB 422/2016 Coll. as amended the weight activity index 1,0[1)] ≤ 1	Pass
Reaction to fire[2)]	-	Commission Decision No 96/603/EC	A1, $A1_{FL}$	-	-

1) Applies only to building materials under Section 9(2)(j) of the Atomic Act, in accordance with Annex No. 28 to Decree No. 422/2016 Coll. – compliance with the reference level requirement of 1 mSv/year (the evaluation criterion for results is a mass activity index value equal to 1; a value higher than 1 does not meet the requirement). Applies to residential buildings and buildings for long-term stay.

2) For elements classified as reaction to fire class A1 without testing based on Commission Decision No 96/603/EC, as amended, these tests do not need to be performed.

TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA s.p. Autorizované osoba 204

3. Conclusion

- The product sample complies with the requirements of the technical specifications and technical regulations regarding the monitored properties.
- The product meets the requirements of Section 7 of Government Decree No. 163/2002 Coll., as amended by Government Decree No. 312/2005 Coll. and Government Decree No. 215/2016 Coll.
- The findings and conclusions stated in this report remain valid provided that no changes occur to the facts under which the conformity verification was performed, and if such change could affect the product properties (e.g., changes in technical regulations, technical specifications, manufacturing technology, raw materials, and production equipment)

4. Annexes

1. Test Report No. 41/2025, prepared by IKATES, s.r.o., Glass and Building Products Testing Laboratory, Tolstého 186, 415 03 Teplice
2. Test report No. 030-068917, issued by the Technical and Test Institute for Construction Prague, s.p. – Plzeň Branch – Testing Laboratory, dated 27 June 2025 and 5 September 2025
3. Test report No. 030-068022, issued by the Technical and Test Institute for Construction Prague, s.p. – Plzeň Branch – Testing Laboratory, dated 27 June 2025 and 19 February 2025
4. Report No. 040-081716 Measurement of specific activity of natural radionuclides, issued by the Technical and Test Institute for Construction Prague, s.p. – Teplice Branch, dated 27 June 2025
5. Drawing documentation

