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Authorised Body No. 204 empowered by the Decision of the ÚNMZ No. 5/2017

Branch 0300 – Plzen

Issues

Pursuant to the provisions of Act No. 22/1997 Coll., on Technical Requirements for Products and on Amendment to Certain Other Acts, as amended, and § 2 and 3 of Government Regulation No. 163/2002 Coll., as amended by Government Regulation No. 312/2005 Coll. and by Government Regulation No. 215/2016 Coll.

TECHNICAL BUILDING APPROVAL

No. 030 – 068918

On product:

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

the Authorised Body No. 204 hereby certifies the correctness of technical data of the product, their values and procedures of checking their compliance with the basic requirements stipulated by Annexe 1 to Government Regulation No. 163/2002 Coll., as amended by Government Regulation No. 312/2005 Coll. and 215/2016 Coll.

This approval serves as technical specification for assessment of the conformity of the said product.

No. of pages of the Technical Building Approval including the title page: **4**

Author of this Technical Building Approval:

Mgr. Pavla Babková
Head Assessor

Approval validity till: **30th September 2028**

Person responsible for correctness of this Technical Building Approval:

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 Product Description and Specification of its Use on Site

Glass mosaic for internal and external wall finishes.

2 Specification of Measured Properties and Method of Assessment

Table 1:

No.	Property	Test procedure	number of samples		required (P)/ declared D) values
			T	D	
1	Geometric parameters	ČSN EN ISO 10545-2	10	-	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%
2	Geometric parameters (of the sheet)	ČSN EN ISO 10545-2	10	-	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
3	Surface quality	ČSN EN ISO 10545-2	30	-	A minimum of 95 % of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles
4	Water absorption	ČSN EN ISO 10545-3	5	-	average ≤ 0,5 %, individual max. 0,6 % 0,5%< average ≤ 3,0%, individual max. 3,3%
5	Coefficient of linear thermal expansion	ČSN EN ISO 10545-8	2	-	max. $9 \times 10^{-6} K^{-1}$
6	Crazing resistance	ČSN EN ISO 10545-11	5	-	No visible changes
7	Frost resistance	ČSN EN ISO 10545-12	10	-	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.
8	Chemical resistance	ČSN EN ISO 10545-13	5	-	min. class B
9	Resistance to stains	ČSN EN ISO 10545-14	5	-	no visible changes

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10	Lead and cadmium given off	ČSN EN ISO 10545–15	5	-	volume Pb: max. 0,8 mg/dm² volume Cd: max. 0,07 mg/dm²
11	Scratch hardness of surface according to Mohs	ČSN 72 5126	3	-	scratch min. 3. degree
12	Thermal shock resistance (glass surfaces)	ČSN EN 1183	5	-	No visible alterations up to a temperature difference of Δ 50 °C
13	Radioactivity	SÚJB recommendation	2	-	regulation SÚJB 422/2016 Coll. as amended the weight activity index 1,0[1)] ≤ 1
14	Reaction to fire	ČSN EN 13501-1	1	-	2)

Note: T - verification / assessment of product conformity (§ 7); D - not performed

1) Applies only to building materials according to § 9 par. 2 let. j) of the Atomic Act according to Annex No. 28 to Decree No. 422/2016 Coll. - compliance with the requirement of a reference level of 1 mSv / year (the criterion for evaluating the results is the value of the mass activity index equal to 1, a value higher than 1 does not meet the requirement. Applies to residential and residential buildings.

2) For elements which are classified in reaction to fire class A1 without testing on the basis of Commission Decision 96/603 / EC, as amended, it is not necessary to perform these tests.

Other properties TN 11.04.06 do not apply to products.

3 Manufacturing Management System Assurance

The requirements for the manufacturing management system are specified in Annexe 3 to Government Regulation No. 163/2002 Coll., as amended by later regulations.

4 Materials Submitted by Applicant

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5 Survey of Applied Technical Regulations, Technical Standards and Other Documents

- 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 10545-11 Ceramic 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
- Test Report No. 41/2025 prepared by IKATES, s.r.o., Laboratory for Glass and Building Products Testing, Tolstého 186, 415 03 Teplice
- Test report of content of natural radioactive nuclides in construction prepared by TZÚS s.p., Praha branch Teplice No. 040-081716
- TN 11.04.06 Ceramic tiles wall

6 Verification Tests

For issuing technical building approval validation tests have been performed.

7 Detailed Requirements for Conformity Assessment

- The product is classified under Annex No. 2, product group 11_4 pursuant to Government Regulation No. 163/2002 Coll., as amended, and the prescribed method of conformity assessment corresponds to § 7 of the said Regulation. The manufacturer ensures a factory production control system in accordance with the requirements of § 7, paragraph 1, letter c) of the said Regulation.
- Surveillance of the certified product is not performed.

