



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

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 – 059826

On product:

Mozaic

**for wall tiling (hardness min. 3. degree) and for floor tiling (hardness min. 5. degree)
inside and outside the buildings**

Applicant:

LASSELSBERGER, s. r. o.

Business ID: 25238078
Address: 320 00 Plzeň, Adelova 2549/1
Manufacturer: LASSELSBERGER, s. r. o.
Address: 320 00 Plzeň, Adelova 2549/1
Plant: LASSELSBERGER, s. r. o.
Address: 320 00 Plzeň, Adelova 2549/1
Order No: Z030140068

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.

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:


Ing. Hana Kotorová
Head Assessor

Approval validity till: **31st July 2023**

Person responsible for correctness of this Technical Building Approval:


Signature and seal of Authorised entity No. 204


Ing. Alexander Trinner
Deputy Manager of Authorised Body No. 204

Plzen, on 1st July 2020

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1 Product Description and Specification of its Use on Site

Mozaic tiles use for wall tiling (hardness min. 3. degree) and floor tiling (hardness min. 5. degree) inside and outside the buildings.

Mosaic is divided into four groups:

- ◆ with water absorption in 0,5%
- ◆ with water absorption in 3%
- ◆ with water absorption over 10%
- ◆ glass with water absorption in 0,5%

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 (separate tiles)	ČSN EN ISO 10545-2	10	-	The deviation of the average size for each tile from the work size: $\pm 1,2$ mm The deviation of the average size for each tile from the average size of the 10 test specimens: $\pm 0,5$ mm Thickness – the deviation in % the average thickness of each tile from the work size: ± 5 %
2	Geometric parameters (mozaic mounted)	ČSN EN ISO 10545-2	10	-	The deviation of the average size for each tile from the work size: $\pm 0,6$ % The deviation of the average size for each tile from the average size of the 10 test specimens: $\pm 0,6$ % Width of joint – the deviation in mm from work width of joint: $\pm 1,0$ 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 $\leq 0,5$ %, individual max. 0,6 % $0,5\% < \text{average} \leq 3,0\%$, individual max. 3,3% average $> 10\%$, individual min. 9,0% (boiling method)
5	Scratch hardness of	ČSN EN 101	3	-	For wall tiling

	surface according to Mohs	(ČSN 72 5126)			scratch min. 3. degree For floor tiling scratch min. 5. degree
6	Resistance to thermal shock (glass surfaces)	ČSN EN ISO 7459	5	-	no visible change
7	Resistance to thermal shock (ceramic surfaces)	ČSN EN ISO 10545-9	5	-	no visible change
8	Crazing resistance (glazed tiles)	ČSN EN ISO 10545-11	5	-	no visible change
9	Chemical resistance	ČSN EN ISO 10545-13	5	-	min. třída B
10	Resistance to stains	ČSN EN ISO 10545-14	5	-	no visible change
11	Resistance to deep abrasion (unglazed tiles)	ČSN EN ISO 10545-6	5	-	max. 250 mm ³
12	Coefficient of linear thermal expansion	ČSN EN ISO 10545-8	2	-	max. 9 × 10 ⁻⁶ K ⁻¹
13	Lead and cadmium given off (glazed tiles)	ČSN EN ISO 10545-15	4	-	obsah Pb: max. 0,8 mg/dm ² obsah Cd: max. 0,07 mg/dm ²
14	Resistance against to the influence of light	IP no. 0340T056	5	-	no visible change
15	Slipperiness	ČSN P CEN/TS 16165 DIN 51130	6 mosaic mounted	-	dle deklarace a použití
16	Radioactivity	SÚJB recommendation	2	-	regulation SÚJB 422/2016 Coll. as amended the weight activity index 1,0 ¹⁾ ≤ 1
17	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 11.01.05 and 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

- ◆ Decree No. 422/2016 Coll., On radiation protection and security of a radionuclide source
- ◆ Government Regulation No. 163/2002 Coll., Which lays down technical requirements for selected construction products, as amended
- ◆ Act No. 22/1997 Coll., On Technical Requirements for Products and on Amendments to Certain Acts, as amended
- ◆ 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 10545-6 Ceramic tiles. Part 6: Determination of resistance to surface abrasion for unglazed tiles,
- ◆ ČSN EN ISO 10545-8 Ceramic tiles. Part 8: Determination of linear thermal expansion
- ◆ ČSN EN ISO 10545-9 Ceramic tiles. Part 9: Determination of resistance to thermal shock
- ◆ 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 10545-11 Ceramic tiles. Part 11: Determination of crazing resistance for glaze tiles,
- ◆ ČSN EN ISO 10 545 – 15 Ceramic tiles. Part 15: Determination of lead and cadmium given off by glazed tiles,
- ◆ ČSN P CEN/TS 16165 Determination of slip resistance of pedestrian surfaces – Methods of evaluation
- ◆ ČSN 72 5126 (od 05/2020 replaces from ČSN EN 101) Ceramic tiles - Determination of surface hardness according to Mohs
- ◆ ČSN EN ISO 7459 Glass containers - Thermal shock resistance and thermal shock endurance - Test methods
- ◆ IP no. 0340T056 Resistance against to the influence of light
- ◆ Final protocol FL No. 63/2014 prepared by IKATES, s.r.o., Zkušebna skla a stavebních výrobků, Tolstého 186, 415 03 Teplice,
- ◆ Protocol of content of natural radioactive nuclides in construction prepared by TZÚS s.p., Praha branch Teplice
- ◆ TN 11.01.05 Ceramic tiles floor
- ◆ 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 in Annexe 2, product group 11_1 a 11_4 of Government Regulation No. 163/2002 Coll., as amended by later regulations and the prescribed method of conformity assessment corresponds to § 7 of the said Regulation. The manufacturer ensures the production management system in accordance with the requirements of § 7 par. (c) of that Regulation.
- Certification of the certified product is not performed.

