



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Construction Prague
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. 11/2013

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.

TECHNICAL BUILDING APPROVAL

No. 030 – 049913

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 2017**

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 4th July 2014

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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.

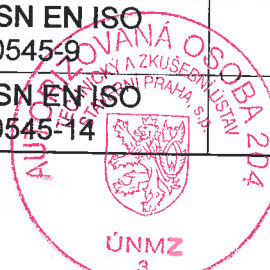
Mosaic is divided into four groups:

- ◆ 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	Declared values (average)
1	Geometric parameters (separate tiles)	ČSN EN ISO 10545-2	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	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	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	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 surface according to Mohs	ČSN EN 101	For wall tiling scratch min. 3. degree For floor tiling scratch min. 5. degree
6	Resistance to thermal shock (glass surfaces)	e/ČSN EN ISO 7459	no visible change
7	Resistance to thermal shock (ceramic surfaces)	ČSN EN ISO 10545-9	no visible changes
8	Resistance to stains	ČSN EN ISO 10545-14	no visible changes



No	Property	Test procedure	Declared values (average)
9	Chemical resistance	ČSN EN ISO 10545-13	no visible changes
10	Crazing resistance	ČSN EN ISO 10545-11	no visible changes
11	Resistance to deep abrasion	ČSN EN ISO 10545-6	max 250 mm ³
12	Coefficient of linear thermal expansion	ČSN EN ISO 10545-8	max. $9 \times 10^{-6} K^{-1}$
13	Lead and cadmium given off	ČSN EN ISO 10545 – 15	volume Pb : max. 0,8 mg/dm ² volume Cd : max. 0,07 mg/dm ²
14	Resistance against to the influence of light	IP No. 0340T056	no visible changes
15	Slipperiness	ČSN P CEN/TS 16165	according to the declaration and use
16	Radioactivity	---	regulation SÚJB 307/2002 Coll. as amended the weight activity index 1,0

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 Government Regulation No. 312/2005 Coll.

4 Materials Submitted by Applicant

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

- ◆ 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
- ◆ 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 association Nuklid, Kralovická 59, 323 00 Plzeň

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, seq. 1, 4 of Government Regulation No. 163/2002 Coll., as amended by Act. No. 312/2005 Coll.

