



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

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Authorised Body No. 204 empowered by the Decision of the ÚNMZ
No. 05/2017

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.

TECHNICAL BUILDING APPROVAL

no. 030 – 054498

Ceramic relief listells and ceramic accessories for internal walls

výrobci:

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
Zakázka: Z030160425

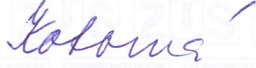
The Authorised Body No. 204 hereby certifies the correctness of technical data of the product, their values and procedures of checking their compliance with the basic requirements stipulated by Annexe 1 to Government Regulation No. 163/2002 Coll., as amended by Government Regulation No. 312/2005 Coll.

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: 3

Approval validity till: **31st March 2020**

Person responsible for correctness of this Technical Building Approval:


Ing. Hana Kotorová
Head Assessor

Person responsible for correctness of this Technical Building Approval.
Plzen, on 2nd March 2017


Ing. Alexander Trinner

Signature and seal of Authorised entity No. 204 Deputy Manager of Authorised Body No. 204

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1 Product Description and Specification of its Use on Site

Ceramic relief listells are glazed decorative ceramic elements drywall molded with an absorption of > 10% (group BIII) used to finish or split ceramic tiles in interiors.

2 Specification of Measured Properties and Method of Assessment

No.	Property	Test procedure	Number of samples	Declared values
1	Geometric parameters	ČSN EN ISO 10545-2	10	The deviation of the average size for each tile from the work size: $\pm 0,5\%$ Thickness – the deviation in % the average thickness of each tile from the work size: $\pm 10\%$
2	Surface quality	ČSN EN ISO 10545-2	10	A minimum of 95 % of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles
3	Water absorption	ČSN EN ISO 10545-3	5	average >10%, individual max. 9% If the value exceeds 20%, it must be stated by the manufacturer. (boiling method)
4	Resistance to stains	ČSN EN ISO 10545-14	5	min. class 3
5	Chemical resistance	ČSN EN ISO 10545-13	5	min. class B
6	Resistance to thermal shock	ČSN EN 10545-9	5	no visible changes
7	Breaking strength, modulus of rupture	ČSN EN ISO 10545-4	7	average min. 12 MPa modulus of rupture individual min. 1300 N (for thickness $\geq 7,5$ mm) modulus of rupture individual min. 200 N (for thickness < 7,5 mm)
8	Moisture expansion	ČSN EN ISO 10545-10	5	max. 0,06% (0,6mm/m)
9	Crazing resistance	ČSN EN ISO 10545-11	5	no visible changes
10	Coefficient of linear thermal expansion	ČSN EN ISO 10545-8	2	max. $9 \times 10^{-6} K^{-1}$



11	Radioactivity	-	brash	regulation No. 422/2016 Coll. the weight activity index ≤ 1
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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 later regulations.

4 Materials Submitted by Applicant

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

- ◆ ČSN EN ISO 10545-2:1998 Ceramic tiles. Part 2: Determination of dimensions and surface quality,
- ◆ ČSN EN ISO 10545-3:1998 Ceramic tiles. Part 3: Determination of water absorption, apparent porosity, apparent relative density and bulk density,
- ◆ ČSN EN ISO 10545-4:2014 Ceramic tiles. Part 4: Determination of modulus of rupture and breaking strength
- ◆ ČSN EN ISO 10545-8:1998 Ceramic tiles. Part 8: Determination of linear thermal expansion
- ◆ ČSN EN ISO 10545-9:2014 Ceramic tiles. Part 9: Determination of resistance to thermal shock
- ◆ ČSN EN ISO 10545-10:1998 Ceramic tiles. Part 10: Determination of moisture expansion
- ◆ ČSN EN ISO 10545-11:1998 Ceramic tiles. Part 11: Determination of crazing resistance for glazed tiles
- ◆ ČSN EN ISO 10545-13:1998 Ceramic tiles. Part 13: Determination of chemical resistance,
- ◆ ČSN EN ISO 10545-14:2016 Ceramic tiles. Part 14: Determination of resistance to stains
- ◆ Protocols of content of natural radioactive nuclides in construction prepared by association Nuklid, Kralovická 59, 323 00 Plzeň
- ◆ TN 11_04_06 Ceramic tiles

6 Verification Tests

For issuing technical building approval validation tests have been performed.

7 Upřesňující požadavky pro posuzování shody

The product is classified in Annexe 2, product group 11, seq. 4 of Government Regulation No. 163/2002 Coll., as amended later regulations.

