

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

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# **TEST REPORT**

issued by Testing Laboratory No. 1018.3 accredited pursuant to ČSN EN ISO/IEC 17025:2005 by Czech Accreditation Institute

No. 030 -055744

from determination of anti-slip properties of ceramic tiles

Ordering Party:

Tubadzin Management Group Sp. z o.o.

Address:

Cedrovice Parcela 11, 95-035 Ozorków Poland

Company ID:

732-20-83-952

Manufacturer:

Tubadzin Management Group Sp. z o.o.

Address:

Cedrovice Parcela 11, 95-035 Ozorków Poland

Test sample:

Ceramic tiles from the collection: Gris 333 x 333 mm

Torano MAT 598 x 598 mm Pietrasanta MAT 598 x 598 mm

Order No.:

Z030 17 0386

Number of pages of the Test Report incl. title page: 3

Pages of Annexes: -

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Approved by:

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Centralní labora

Vít Ruml

head of the testing department

Plzeň, on 9.10.2017

Declaration: 1) The test results in this Report relate only to the tested article and they do not substitute any other documents 2) The Test Report must be copied as a whole only otherwise a written consent of the testing laboratory is needed.

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#### 1 Initial Data

## 1.1 Assignment

• Execution of tests of slipperiness of ceramic tiles according the requirement of the client:

 determination of slipperiness– walking methods – ramp test (barefoot method) according DIN 51097, P CEN/TS 16165 (annex A)

### 1.2 Samples

Sample specification: Ceramic tiles dry-pressed, EN 14411, Annex G, group Bla,

type: Gris 333 x 333 mm

Torano MAT 598 x 598 mm Pietrasanta MAT 598 x 598 mm

Producer: Tubadzin Management Group Sp. z o.o., Cedrovice Parcela 11, 95-035
Ozorków Poland

Samples supplied on 29<sup>th</sup>September 2017

# 2 Sampling Method

The test samples were supplied by the customers on 29th September 2017.

The samples were recorded this way:

under no. sample VZ 030170986

Gris 333 x 333 mm

under no. sample **VZ 030170987** 

Torano MAT 598 x 598 mm

under no. sample VZ 030170988

Pietrasanta MAT 598 x 598 mm

# 3 Testing Procedures

**DIN 51097** 

Testing of floor coverings determination of anti – slip

properties wet-loaded barefoot areas; walking method

- ramp test

P CEN/TS 16165

Determination of slip resistance of pedestrian surfaces

Methods of evaluation

#### 4 Measurements and Tests

Determination of slipperiness – walking methods – ramp test (wet-loaded barefoot areas method) DIN 51097, P CEN/TS 16165 (annex A)

| Testing samples              | Critical angle of slip classification according DIN 51097, P CEN/TS 16165 (annex A) |
|------------------------------|---|
| Gris 333 x 333 mm            | 17° A   |
| Torano MAT 598 x 598 mm      | 23° B   |
| Pietrasanta MAT 598 x 598 mm | 17° A   |



## 5 Conclusion

Based on the results of the test pursuant to DIN 51097, P CEN/TS 16165 (annex A) the tested samples of ceramic tiles from the collection Torano MAT 598 x 598 mm produced in the Tubądzin Management Group Sp. z o.o., Cedrovice Parcela 11, 95-035 Ozorków Poland classified in group B and can be used for assembly of safe paving, e.g. in showers, pool edges and bottoms in the zone for none-swimmers with depth under 80 cm, on stairs outside pools, etc. They can be used of ceramic tiles classified into group A is prescribed e. g. the corridors for walking barefoot (mostly dry), joint and separate dressing rooms, bottom of pools in the area for non-swimmers, when the whole area of water depth greater than 80 cm, sauna and relaxation rooms (mostly dry) etc.)

Based on the results of the test pursuant to DIN 51097, P CEN/TS 16165 (annex A) the tested samples of Gris 333 x 333 mm and Pietrasanta MAT 598 x 598 mm produced in the Tubądzin Management Group Sp. z o.o., Cedrovice Parcela 11, 95-035 Ozorków Poland classified in group A and can be used for assembly of safe paving, e.g. the corridors for walking barefoot (mostly dry), joint and separate dressing rooms, bottom of pools in the area for non-swimmers, when the whole area of water depth greater than 80 cm, sauna and relaxation rooms (mostly dry) etc.)

It should be pointed out that to ensure proper slip resistant function of flooring in the sense of stated conclusion, it is needed to maintain surface in clean conditions and without significant wear. Other properties were not subject to testing.

**END OF REPORT** 

