



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.

Technical and Test Institute for Construction Prague

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L 1018.3

TEST REPORT

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

No. 030 –055745

from determination of anti-slip properties of ceramic tiles

Ordering Party: **Tubądzin Management Group Sp. z o.o.**
Address: **Cedrovice Parcela 11, 95-035 Ozorków Poland**

Company ID: **732-20-83-952**

Manufacturer: **Tubądzin Management Group Sp. z o.o.**
Address: **Cedrovice Parcela 11, 95-035 Ozorków Poland**

Test sample: **Ceramic tiles from the collection: Industrio 798 x 798 mm**

Order No.: **Z030 17 0387**

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

Prepared by:

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Print No.: 1

Number of prints: 3

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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Entered in the Commercial Register maintained by Municipal Court in Prague, Section ALX, Insert 711, Comp. ID: 00015679, VAT: CZ00015679

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 BI_a, type: Industrio 798 x 798 mm**
- Producer: **Tubądzin Management Group Sp. z o.o., Cedrovice Parcela 11, 95-035 Ozorków Poland**
- Samples supplied on 29thSeptember 2017

2 Sampling Method

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

The samples were recorded this way:

under no. sample **VZ 030170989** **Industrio 798 x 798 mm**

3 Testing Procedures

DIN 51097

Testing of floor coverings determination of anti – slip properties wet-loaded barefoot areas; walking method – ramp test

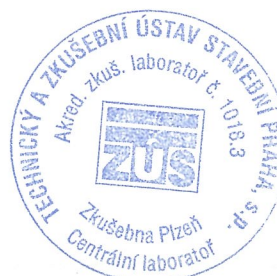
P CEN/TS 16165

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)
Industrio 798 x 798 mm	23° B



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 **Industrio 798 x 798 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.)

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

